

Proceeding: A.26-03-  
Exhibit No.: MCE – 01  
Date: March 16, 2026  
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**MARIN CLEAN ENERGY**

**EXHIBIT 1**

**TESTIMONY OF MARIN CLEAN ENERGY REGARDING  
ITS 2028-2031 ENERGY EFFICIENCY PORTFOLIO PLAN AND  
2032-2035 ENERGY EFFICIENCY BUSINESS PLAN**

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1 **Chapter 1: Executive Summary**

2 **1. Brief Description of Application**

3 In this Business Plan Application (“Application”), Marin Clean Energy (“MCE”) requests  
4 California Public Utilities Commission (“CPUC” or “Commission”) approval of its four-year energy  
5 efficiency (“EE”) Portfolio Plan for program years (“PYs”) 2028-2031, as well as its eight-year  
6 Strategic Business Plan (“Business Plan”) covering PYs 2028-2035. Exhibit 1 of MCE’s testimony  
7 describes the four-year Portfolio Plan in detail, and also lays out MCE’s eight-year Business Plan,  
8 which is philosophically consistent with and underpinned by the same core principles, goals, and  
9 strategies driving MCE’s Portfolio Plan. Over the four-year Application period, MCE requests a total  
10 budget of \$65,251,000 for its EE programming, broken out by sector in the table below (and detailed  
11 in **Chapter 4: Forecast Methodology and Zero-Based Budgeting**). Informed by its experience  
12 administering programs in its PYs 2024-2027 portfolio as well as by the ongoing energy affordability  
13 crisis in California—which necessitates greater scrutiny of the Commission’s use of ratepayer  
14 funds<sup>1</sup>—MCE requests a \$14.8 million reduction in its 2028-2031 budget as compared to the prior  
15 portfolio period (*i.e.*, a 19 percent four-year budget reduction).<sup>2</sup>

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<sup>1</sup> Sierra Club, California’s Affordability Crisis: Utilities Asking for More Money for Shareholders, November 2025, available at: <https://www.sierraclub.org/articles/2025/11/california-s-affordability-crisis-utilities-asking-more-money-shareholders>; Executive Department State of California, EXECUTIVE ORDER N-5-24, October 30, 2024, available at: <https://www.gov.ca.gov/wp-content/uploads/2024/10/energy-EO-10-30-24.pdf>, pp. 1-2; Assembly Bill 3264 (Petrie-Norris), sections 1(b), 3(b).

<sup>2</sup> Decision (“D.”) 23-06-055, p. 94 (authorizing a 2028-2031 \$80,063,445 budget forecast for MCE).

**Table 1-1: 4-year Portfolio Budget Forecast Summary (2028-2031)**

4-year Portfolio Budget Forecast Summary (2028-2031) (\$000)					
	2028	2029	2030	2031	Total (4 Years)
<b>Total Budget</b>	\$15,577	\$16,454	\$16,556	\$16,664	\$65,251
<b>Resource Acquisition Segment Budget</b>	\$9,502	\$10,037	\$10,099	\$10,165	\$39,803
<b>Market Support Segment Budget</b>	\$765	\$808	\$813	\$818	\$3,203
<b>Equity Segment Budget</b>	\$4,687	\$4,951	\$4,982	\$5,014	\$19,635
<b>Codes and Standard Budget</b>	\$0	\$0	\$0	\$0	\$0
<b>EM&amp;V</b>	\$623	\$658	\$662	\$667	\$2,610
<b>Administration</b>	\$1,020	\$1,460	\$1,499	\$1,539	\$5,518
<b>ED Portfolio Oversight</b>	\$0	\$0	\$0	\$0	\$0

MCE’s 2028-2035 strategic Business Plan builds on the foundation of MCE’s robust track record of designing and implementing innovative and cost-effective EE programming since 2012. The Business Plan will also remain flexible to ensure that MCE can adapt in real-time to serve the evolving needs of its customers and of the state. MCE’s long-term vision for EE prioritizes greater affordability, cost-effectiveness, electrification, equity, and reliability. Over the eight-year Business Plan period, MCE will aim to maximize Total System Benefits (“TSB”) through the implementation of cost-effective EE (and demand management)<sup>3</sup> programs, while also supporting the sustained growth of the EE market in its service area and ensuring that all customers, especially those historically underserved by EE, receive the benefits of EE—including non-energy benefits (“NEBs”). MCE requests a total of \$133,096,000 for its eight-year Business Plan, which is again informed by MCE’s experience administering programs in its PYs 2024-2027 portfolio, and by California’s ongoing energy affordability crisis, and reflects an eight-year budget that is \$25 million smaller than its last eight-year budget.<sup>4</sup>

As discussed in **Chapter 2: Portfolio Summary (Service Territory)** and **Chapter 6:**

<sup>3</sup> MCE defines “demand management” as the umbrella term for customer responsiveness to price, behavior or equipment-driven signals which enable load shifting, load shedding, load shaping, and demand response (“DR”).

<sup>4</sup> D.23-06-055, pp. 93-94 (authorizing a \$158,280,761 eight-year budget for MCE).

1 **Segmentation and Sector Strategies**, MCE’s Application includes diverse strategies to serve all  
2 sectors of its service area customers including residential, commercial, industrial, agricultural, and  
3 public customers. In **Chapter 6: Segmentation and Sector Strategies**, MCE proposes a variety of  
4 cost-effective and Equity strategies to serve customers with Resource Acquisition, Market Support,  
5 and Equity segment programs. MCE maximizes its commitment to serving Equity customers with  
6 beneficial programs delivering both energy savings and NEBs like bill savings, and improved health,  
7 safety, and comfort by proposing a 30 percent Equity segment budget.<sup>5</sup>

8 MCE deeply values stakeholder engagement and community-led design. MCE’s portfolio  
9 programs are heavily influenced by both ongoing stakeholder outreach activities and discrete  
10 stakeholder engagement activities completed for the purposes of this Application. As discussed in  
11 **Chapter 8: Stakeholder Engagement**, MCE regularly conducts a variety of ongoing stakeholder  
12 outreach activities to continuously seek feedback from the customers and communities it serves.  
13 During PYs 2024-2027 of its EE portfolio, MCE conducted 20 interviews with local contractors,  
14 completed 119 surveys of residential customers on electrification barriers and equitable electrification,  
15 and distributed 223 surveys to Home Energy Savings program participants following their receipt of  
16 direct install measures. Additionally, MCE surveyed 81 small businesses on their EE needs and  
17 conducted nine interviews with local permitting authorities on permitting barriers to decarbonization  
18 and direct installs. MCE also maintains the MCE Community Power Coalition—a network of 160  
19 social, racial, and environmental justice organizations that do feet-on-the-street work to address  
20 inequities in service area communities—and this Coalition was invited to a virtual discussion on  
21 MCE’s draft Application.

22 Overall, in the development of this Application, MCE conducted 12 stakeholder activities and

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<sup>5</sup> MCE requests a 30 percent Equity segment and 5 percent Market Support segment budget (collectively a 35 percent Equity and Market Support budget) as discussed in **Chapter 11: Policy Recommendations**.

1 engaged over 30 stakeholder organizations for direct feedback. Feedback was welcomed through  
2 roundtable discussions, individual conversations, existing meetings, over email, and via a written  
3 survey. MCE received robust, detailed, and valuable feedback from stakeholders that directly informed  
4 MCE’s Application. MCE’s specific actions and responses to stakeholder engagement are discussed  
5 in detail in **Chapter 8: Stakeholder Engagement**. In **Chapter 8: Stakeholder Engagement**, MCE  
6 also discusses its ongoing multilingual and culturally competent outreach activities to customers and  
7 stakeholders that help ensure easy access to EE program participation.<sup>6</sup>

## 8 **2. Regulatory and Legislative Content**

9 A robust regulatory and legislative environment informs MCE’s eight-year EE Business Plan,  
10 and four-year Portfolio Plan. Regulatory requirements—as established by Commission decisions—in  
11 particular shape MCE’s budget, its technical inputs, its goals (TSB and energy savings) and its  
12 strategies in this Application. Here, MCE outlines a summary of the relevant EE regulatory history,  
13 CPUC compliance requirements, and legislative drivers for its Application.

14 MCE has administered EE funds under California Public Utilities Code (“Code”) Section  
15 381.1(a)-(d) since 2013. Pursuant to Article 2 of the Commission’s Rules of Practice and Procedure,  
16 Code Section 381.1, and Decision (“D.”) 21-05-031, MCE filed its 2024 EE Application on March 4,  
17 2022.<sup>7</sup> On July 3, 2023, the Commission issued D.23-06-055 approving MCE’s 2024 Application and  
18 MCE’s proposed EE portfolio for PYs 2024-2027. In D.23-06-055, the Commission approved a four-  
19 year budget cap of \$78,217,316 for MCE, and specifically approved all of MCE’s proposed programs  
20 except for its PeakFLEXmarket program.

21 On September 5, 2025, the Commission issued D.25-08-034 Adopting Energy Efficiency

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<sup>6</sup> MCE provides a streamlined online public resource for customers to find and explore programs and rebates they may qualify for: <https://mcecleanenergy.org/explore-programs-and-offers/> (program and rebate locator).

<sup>7</sup> A.22-03-012, *Application of Marin Clean Energy for Approval of 2024-2031 Energy Efficiency Business Plan and 2024-2027 Energy Efficiency Portfolio Plan* (March 4, 2022) (“MCE 2024 Application”).

1 Goals for 2026-2037. On November 4, 2025, MCE submitted its Mid-Cycle Advice Letter (“MCAL”),  
2 and the Commission accepted it with an effective date of January 20, 2026. In February 2026, Energy  
3 Division Staff issued the final *EE Business Plan Application Template* and *Business Plan Application*  
4 *Workbook* (collectively, the “Templates”).<sup>8</sup> MCE submits this Application pursuant to the Templates  
5 and in compliance with the relevant controlling Commission decisions (including but not limited to  
6 D.21-05-031 (rolling portfolio and segmentation requirements); D.23-04-035 (phase-out of natural gas  
7 incentives); D.23-06-055 (approval of 2024-2027 EE portfolios and 2024-2031 business plans); and  
8 D.25-08-034 (approval of 2026-2037 EE potential and goals)).

9 As discussed throughout this Application, MCE designed its EE portfolio to advance the  
10 Commission’s Environmental and Social Justice (“ESJ”) Action Plan goals.<sup>9</sup>

11 The legislative and state policy drivers shaping MCE’s EE portfolio and budget include, but  
12 are not limited to, the following:

- 13 • Senate Bill (“SB”) 350 (De León, 2015) – Clean Energy and Pollution Reduction Act;
- 14 • Assembly Bill (“AB”) 802 (Williams, 2015) – Benchmarking and Changes to Energy
- 15 Efficiency Baselines;
- 16 • AB 3264 (Petrie-Norris, 2024) – Energy: Cost Framework: Residential Rates: Demand-Side
- 17 Management Programs Report: Electrical Transmission Grid Study;
- 18 • Executive Order N-5-24 – Electric Service Affordability;
- 19 • SB 1221 (Min, 2024) – Zonal Decarbonization: Priority Neighborhood Decarbonization
- 20 Zones; and
- 21 • SB 1013 (Lara, 2018) – Fluorinated Refrigerants: Low-Global Warming Potential Refrigerants
- 22 in Energy Efficiency Programs.

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<sup>8</sup> Issued via email. See also CPUC, Rolling Portfolio Program Guidance, available at: <https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/demand-side-management/energy-efficiency/rolling-portfolio-program-guidance>.

<sup>9</sup> CPUC, ESJ Action Plan Vol 2, April 2022, available at: <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf>. MCE’s Application maintained a specific focus on Goal 1: Consistently integrate equity and access considerations throughout CPUC regulatory activities; Goal 2: Increase investment in clean energy resources to benefit ESJ communities, especially to improve local air quality and public health; Goal 5: Enhance outreach and public participation opportunities for ESJ communities to meaningfully participate in the CPUC’s decision-making process and benefit from CPUC programs; and Goal 7: Promote high road career paths and economic opportunity for residents of ESJ communities.

1 **Chapter 2: Portfolio Summary**

2 Marin Clean Energy (“MCE”) is a local government entity and community choice  
3 aggregator (“CCA”) that provides clean electricity service and clean energy programs to 38  
4 member communities across Contra Costa, Marin, Napa, and Solano Counties.<sup>10</sup> The MCE service  
5 area has grown from its founding years in Marin County to encompass an area that now includes  
6 communities in four diverse Bay Area Counties – Marin County, Napa County, the majority of  
7 Contra Costa County, and portions of Solano County (including Benicia, Vallejo, and Fairfield),  
8 and unincorporated areas within the counties. As MCE’s geographic footprint has grown, it has  
9 extended its reach to nearly 586,000<sup>11</sup> customers of all types – residential (single-family and  
10 multifamily), commercial, industrial, and agricultural.

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<sup>10</sup> MCE is a local not-for-profit public agency that provides electricity service and cutting-edge energy programs to more than 1.5 million people in 38 member communities in Contra Costa, Marin, Napa, and Solano Counties. MCE is a “joint powers authority” defined as a public agency consisting of two or more public agencies that may jointly exercise common powers as a separate legal entity consistent with California Government Code Section 6500 *et seq.* MCE is a “community choice aggregator,” which is defined by California Public Utilities Code section 331.1(b) (codifying Assembly Bill 117 (Migden, 2002)) to include: “(b) Any group of cities, counties, or cities and counties whose governing boards have elected to combine the loads of their programs, through the formation of a joint powers agency established under Chapter 5 (commencing with Section 6500) of Division 7 of Title 1 of the Government Code.” MCE is a load-serving entity.

<sup>11</sup> MCE, About Us, available at: <https://mcccleanenergy.org/about/>.

1 **Figure 2-1: Map of the 38 Communities MCE Serves Across Four Bay Area Counties**



2

1 **Figure 2-2: List of the 38 Communities MCE Serves Across Four Bay Area Counties**

Contra Costa	Marin	Napa	Solano
<ul style="list-style-type: none"> <li>• Concord</li> <li>• Danville</li> <li>• El Cerrito</li> <li>• Hercules</li> <li>• Lafayette</li> <li>• Martinez</li> <li>• Moraga</li> <li>• Oakley</li> <li>• Pinole</li> <li>• Pittsburg</li> <li>• Pleasant Hill</li> <li>• Richmond</li> <li>• San Pablo</li> <li>• San Ramon</li> <li>• Unincorporated Contra Costa</li> <li>• Walnut Creek</li> </ul>	<ul style="list-style-type: none"> <li>• Belvedere</li> <li>• Corte Madera</li> <li>• Fairfax</li> <li>• Larkspur</li> <li>• Mill Valley</li> <li>• Novato</li> <li>• Ross</li> <li>• San Anselmo</li> <li>• San Rafael</li> <li>• Sausalito</li> <li>• Tiburon</li> <li>• Unincorporated Marin</li> </ul>	<ul style="list-style-type: none"> <li>• American Canyon</li> <li>• Calistoga</li> <li>• Napa</li> <li>• St. Helena</li> <li>• Unincorporated Napa</li> <li>• Yountville</li> </ul>	<ul style="list-style-type: none"> <li>• Benicia</li> <li>• Fairfield</li> <li>• Unincorporated Solano</li> <li>• Vallejo</li> </ul>

2 MCE’s service area overlaps with the service areas of two other California Public Utilities  
 3 Commission (“CPUC”) Energy Efficiency Portfolio Program Administrators (“PAs”): Pacific Gas  
 4 and Electric Company (“PG&E”) and Bay Area Regional Energy Network (“BayREN”). MCE’s  
 5 coordination with those PAs is discussed further in **Chapter 7: Portfolio Coordination.**

6 **1. Diversity in MCE’s Service Area**

7 MCE’s expanded service area features a diverse population, as is illustrated by various  
 8 demographic measures. Nearly a quarter of the residents in MCE’s service area<sup>12</sup> were born outside  
 9 the United States.<sup>13</sup> In addition, nearly one-third of the population of residents in MCE’s service

<sup>12</sup> Consistent with Application (“A.”) 22-03-005, *Application of Marin Clean Energy for Approval of 2024-2031 Energy Efficiency Business Plan and 2024-2027 Energy Efficiency Portfolio Plan* (Mar. 4, 2022), because of data availability, this section describes the characteristics of MCE’s service area by referencing data from the four counties comprising MCE’s service territory.

<sup>13</sup> United States Census Bureau, Quick Facts (accessed March 9, 2026), available at: <https://www.census.gov/quickfacts/fact/table/CA,solanocountycalifornia,napacountycalifornia,marincountycalifornia,contracostacountycalifornia/POP815219?#qf-headnote-b>.

1 area speaks a language other than English at home, with Marin County having a lower  
2 concentration of non-English speakers than the other three counties.<sup>14</sup>

3 Household incomes in MCE’s service area also vary by county, (see Table 2-1), with  
4 median household income ranging from \$100,027 in Solano County to \$139,644 in Marin  
5 County.<sup>15</sup> Household incomes are generally higher in Marin and Contra Costa Counties, and  
6 comparatively lower in Napa and Solano Counties.

7 **Table 2-1: Household Incomes in MCE’s Service Area<sup>16</sup>**

<b>Income</b>	<b>Marin</b>	<b>Napa</b>	<b>Contra Costa</b>	<b>Solano</b>
<b>Under \$50K</b>	19%	23%	19%	24%
<b>\$50K to \$100K</b>	20%	23%	22%	26%
<b>\$100K to \$200K</b>	25%	33%	31%	34%
<b>Above \$200K</b>	37%	21%	28%	16%

8 Income disparity also varies across MCE’s service area, as Table 2-2 indicates.<sup>17</sup> The 20<sup>th</sup>  
9 percentile for household income is nearly \$13,000 lower in Solano County than in Marin County,  
10 indicating a higher proportion of lower incomes in Solano.

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<sup>14</sup> United States Census Bureau, Quick Facts (accessed March 4, 2026), available at: <https://www.census.gov/quickfacts/fact/table/napacountycalifornia,contracostacountycalifornia,marincountycalifornia,solanocountycalifornia/PST045224>.

<sup>15</sup> 2023 American Communities Survey, viewed on Census Reporter (accessed March 4, 2026), available at: <https://censusreporter.org/profiles/05000US06041-marin-county-ca/>;  
<https://censusreporter.org/profiles/05000US06055-napa-county-ca/>;  
<https://censusreporter.org/profiles/05000US06013-contra-costa-county-ca/>;  
<https://censusreporter.org/profiles/05000US06095-solano-county-ca/>.

<sup>16</sup> *Id.*

<sup>17</sup> “Vital Signs: Income.” Metropolitan Transportation Commission and Association of Bay Area Governments. Data originates from 2023 American Communities Survey, available at: <https://vitalsigns.mtc.ca.gov/indicators/income>.

1

**Table 2-2: Household Income by Percentile and County**

<b>County</b>	<b>20th Percentile</b>	<b>50th Percentile</b>	<b>90th Percentile</b>
<b>Contra Costa</b>	\$50,976	\$122,342	\$352,957
<b>Marin</b>	\$53,423	\$140,286	\$511,594
<b>Napa</b>	\$43,839	\$102,971	\$289,543
<b>Solano</b>	\$40,679	\$100,932	\$249,476

2

**2. Customer Types and Energy Consumption Patterns**

3

As mentioned above, MCE’s service area includes all major customer sectors – residential (single-family and multifamily), commercial, industrial, and agricultural. Nearly half of the electricity consumption and 43% of the gas consumption in MCE’s service area is attributable to residential accounts. In contrast, within the state of California, the residential sector utilized 35.3% of electricity in 2024.<sup>18</sup> Given the relatively higher proportion of residential energy consumption in MCE’s service area, MCE’s customer programs must obtain a larger portion of energy savings from the residential sector. This presents a potential challenge to MCE’s comprehensive programming because statewide many residential energy efficiency (“EE”) programs historically have achieved less energy savings per dollar as compared to non-residential programs with larger baseline energy consumptions per customer. MCE, however, effectively balances its portfolio to achieve cost-effective energy savings as described in **Chapter 3: Portfolio Strategies**.

14

Housing in MCE’s service area is characterized by relatively high home ownership rates, with owner-occupied units comprising 68% of units in Contra Costa County, 65% in Marin

15

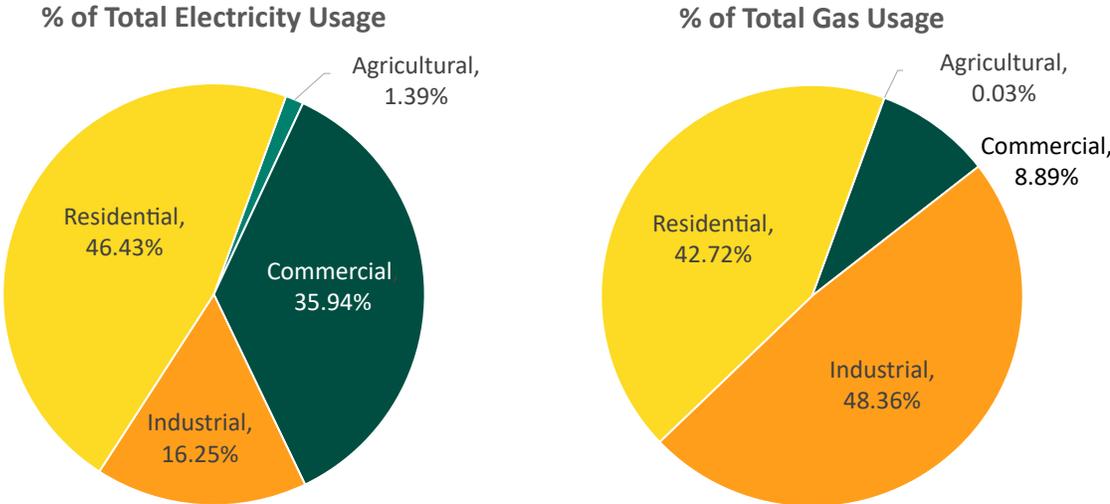
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<sup>18</sup> “Energy Consumption.” California Energy Commission (accessed March 12, 2025), available at: <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/california-energy-consumption-dashboards-0>.

1 County, and 63% in Solano County. All figures exceed the California state average of 56%.<sup>19</sup> This  
2 larger proportion of home ownership indicates good opportunities for single-family programs  
3 within MCE’s service area.

4 Within the non-residential sectors in MCE’s service area, the commercial sector is the  
5 largest in terms of electricity usage (34% of MCE load) and number of customers (93% of non-  
6 residential accounts). However, it represents a very small share of overall gas consumption at just  
7 under 9%. Customers in the industrial sector have the highest energy consumption per account—  
8 three times higher than the non-residential sector overall. The industrial sector is also the largest  
9 consumer of natural gas, representing 48% of gas usage in MCE’s service area despite being only  
10 0.5% of accounts. Agriculture (4% of all accounts) represents a small percentage of MCE electrical  
11 load at just over 1%, and a negligible proportion of the gas consumption at 0.03%.

12 **Figure 2-3: Energy Consumption by Sector (June 2024 – June 2025)**



13

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<sup>19</sup> US Census Bureau, Quick Facts (accessed March 4, 2026), available at: <https://www.census.gov/quickfacts/fact/table/CA,solanocountycalifornia,napacountycalifornia,marincountycalifornia,contracostacountycalifornia/HSG010219>.

### 3. Unique Characteristics of MCE’s Service Area

MCE’s service area is relatively small compared to the other portfolio service areas. This means MCE must achieve a similarly balanced portfolio with a comparatively smaller pool of customers. An additional challenge associated with MCE’s service area is that the population and employment centers in MCE’s service area are predominantly located in several dispersed, small and medium-sized cities, rather than being concentrated in a large urban center. This characteristic is important for MCE to consider and may influence the selection of program implementers to ensure programs are available throughout MCE’s entire service area. This also influences the customer acquisition strategies MCE deploys to bring in new projects to manage customer acquisition costs. MCE must consider these important service area characteristics as it designs and implements cost-effective and beneficial programs.

On the other hand, MCE’s service area size brings certain advantages—it allows MCE to be nimble and responsive to locally defined customer needs, which is necessary to adapt programs to changing rules and meet the evolving needs of MCE’s diverse customer base.<sup>20</sup> Moreover, MCE, as a mission-driven organization and non-profit CCA, is motivated to be a flexible and innovative partner in delivering customer-oriented services. MCE’s mission is “...to confront the climate crisis by eliminating fossil fuel greenhouse gas emissions, producing renewable energy, and creating equitable community benefits.”<sup>21</sup> MCE’s vision is to “...lead California to an equitable, clean, affordable, and reliable energy economy by serving as a model for community-based renewable energy, energy efficiency, and cutting-edge, clean-tech products and programs.”<sup>22</sup>

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<sup>20</sup> The Greenlining Institute, Equitable Electrification Framework, 2019, available at: [https://greenlining.org/wp-content/uploads/2019/10/Greenlining\\_EquitableElectrification\\_Report\\_2019\\_WEB.pdf](https://greenlining.org/wp-content/uploads/2019/10/Greenlining_EquitableElectrification_Report_2019_WEB.pdf), pp. 5-6 (assess and respond to community needs).

<sup>21</sup> MCE, About Us, (accessed March 6, 2026) available at: <https://mcecleanenergy.org/about/>.

<sup>22</sup> *Id.*

1 MCE’s community-focused mission and vision support its continued investment in strong  
2 relationships and existing partnerships with diverse local stakeholders, community-based  
3 organizations (“CBOs”), and its customers. These local relationships and partnerships are essential  
4 for MCE’s locally-led EE program design and implementation processes.<sup>23</sup> For further discussion  
5 of CBO partnerships, see **Chapter 8: Stakeholder Engagement**.

#### 6 **4. Geographic Trends by Sector**

##### 7 **4.1 Residential**

8 Residential electricity use has in MCE’s territory been flat or slightly declining per  
9 household, thanks to more efficient appliances and solar adoption, but total load is increasing with  
10 population growth and electrification trends.<sup>24</sup> The residential and commercial gas usage in these  
11 counties is also large because many homes use gas heating and some of the area has cooler winters  
12 (especially in inland valleys). Forecasts anticipate electricity demand growth over the next decade  
13 due to electric vehicle (“EV”) adoption, data centers and building electrification, partly offset by  
14 efficiency gains.<sup>25</sup>

15 Marin has the lowest rate of single-family homes across the four counties, comprising 67%  
16 of its housing stock.<sup>26</sup> All counties are predominantly single-family in housing type which means

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<sup>23</sup> CPUC, Environmental and Social Justice Action Plan Vol. 2, 2022, available at: <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf> (“Goal 5: Continued to improve outreach and engagement with community-based organizations and the public[.]”), p. 3.

<sup>24</sup> California Energy Commission, California Energy Resource and Reliability Outlook, 2025, (accessed March 6, 2026) available at: <https://www.energy.ca.gov/publications/2025/california-energy-resource-and-reliability-outlook-2025>, pp. 5, 11, 12, 29, 41, 59, 70 (forecasting increases in electric demand due to population growth, electrification of buildings and transportation and increased loads from data centers).

<sup>25</sup> *Id.*

<sup>26</sup> Data originally from American Community Survey 2023, sourced from Census Reporter on November 12, 2025, available at: <https://censusreporter.org/profiles/05000US06041-marin-county-ca/>;  
<https://censusreporter.org/profiles/05000US06055-napa-county-ca/>;  
<https://censusreporter.org/profiles/05000US06095-solano-county-ca/>;  
<https://censusreporter.org/profiles/05000US06013-contra-costa-county-ca/>.

1 residential energy programs can often be tailored regionally (e.g., attic insulation is needed in a  
2 majority of homes across all four counties). Contra Costa County contains the highest rate of  
3 owner-occupied units, at 68% of the housing stock.<sup>27</sup> The median home value of owner-occupied  
4 units differs significantly from the highest in Marin County at \$1,547,000 to Solano County at  
5 \$629,700.<sup>28</sup>

6 A number of overlapping policy initiatives are expected to cause natural gas demand to  
7 plateau or decline gradually in MCE’s territory over the next years and decades. For example, local  
8 regulations that apply as early as 2027 will promote the sale of electric space and water heating  
9 appliances.<sup>29</sup> Statewide natural gas demand is also expected to plateau or decline gradually through  
10 2040,<sup>30</sup> as new buildings shift to all-electric appliances, and compliance requirements arrive for  
11 both local and state climate targets. In PG&E’s Northern California service area,<sup>31</sup> average-year  
12 gas demand is forecasted to decline at an annual average rate of 3.0 percent between 2024 and  
13 2040 in response to the state’s decarbonization policies.<sup>32</sup> MCE must balance knowledge of this  
14 expected natural gas use decline and increased electrical demand when selecting measures that  
15 support fuel-switching, electrification, and gas savings.

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<sup>27</sup> See *id.*

<sup>28</sup> See *id.*

<sup>29</sup> The Bay Area Air District, whose rules govern MCE’s entire service area, adopted [Rule 9-4: Nitrogen Oxides from Fan Type Residential Central Furnaces](#) and [Rule 9-6: Nitrogen Oxides Emissions from Natural Gas-Fired Boilers and Water Heaters](#) in March 2023 which, at the time of filing, place point of sale restrictions on certain natural gas appliances beginning in 2027. The Bay Area Air District has discussed potential amendments to these rules. MCE is tracking related efforts closely and will work to align its EE programs with any controlling requirements. Bay Area Air District, CONCEPTS FOR RULE 9-6 AMENDMENTS: Affordability and Availability Considerations for Zero NOx Small Water Heaters, October 2025, available at: [https://www.baaqmd.gov/~media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/rule-09\\_06-concepts-paper\\_final-v1-pdf.pdf?rev=9eac6fc7a84e4b259fd2017c838de68c&sc\\_lang=en](https://www.baaqmd.gov/~media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/rule-09_06-concepts-paper_final-v1-pdf.pdf?rev=9eac6fc7a84e4b259fd2017c838de68c&sc_lang=en).

<sup>30</sup> CALIFORNIA GAS AND ELECTRIC UTILITIES, 2024 California Gas Report, available at: <https://www.socalgas.com/sites/default/files/2024-08/2024-California-Gas-Report-Final.pdf>, p. 4.

<sup>31</sup> Which includes MCE’s service area.

<sup>32</sup> CALIFORNIA GAS AND ELECTRIC UTILITIES, 2024 California Gas Report, available at: <https://www.socalgas.com/sites/default/files/2024-08/2024-California-Gas-Report-Final.pdf>, p. 35.

1                   **4.2    Non-residential**

2                   Differences across counties are pronounced in the commercial and industrial sectors. Total  
3 energy consumption is highest in Contra Costa County, which is both a reflection of its larger  
4 population and its high concentration of more energy-intensive industries. Contra Costa and  
5 Solano Counties host heavy industries like oil refineries, large manufacturing plants, and power  
6 stations that drive much higher industrial energy consumption. Industrial facilities and oil  
7 refineries draw significant power, though some generate electricity on-site. Natural gas usage in  
8 Contra Costa County is substantial – the refineries are major consumers of natural gas (for process  
9 fuel and hydrogen production). Marin and Napa Counties lack such industries; their economies are  
10 largely service and tourism based, with correspondingly lower energy intensity. These differences  
11 require MCE to implement correspondingly different greenhouse gas emission and energy  
12 reduction strategies in these different areas. In Contra Costa and Solano Counties, MCE must work  
13 closely with industry on greater efficiency and fuel-switching measures, whereas in Marin and  
14 Napa Counties, MCE must focus more on measures impacting buildings, vehicles, and small  
15 business efficiencies.

16                   **5.        Electrification Trends by County**

17                   Electrification standards and goals vary across counties in MCE’s service area. Marin  
18 County proposes a series of plans through its countywide Electrification Roadmap (2024),<sup>33</sup> which  
19 recommends actions such as permit streamlining for gas-to-electric conversions, implementing  
20 Marin’s Electric Vehicle Acceleration Strategy, and continuing to advance new electrification  
21 readiness standards and reach codes that are in sync with statewide update cycles.<sup>34</sup>

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<sup>33</sup> “Electrification Roadmap Plan,” County of Marin. Last updated September 6, 2024, available at: <https://www.marincounty.gov/departments/cda/sustainability/electrify-marin/policy-dev/roadmap/plan>.

<sup>34</sup> In August 2025, the California legislature passed [Assembly Bill 130](#) which temporarily freezes residential code updates (including local reach code updates) until the 2031 code cycle, pausing new local residential

1 Napa County is similarly leading in its electrification efforts. Its proposed Regional  
2 Climate Action and Adaptation Plan (2025)<sup>35</sup> aims to implement energy retrofit programs for  
3 existing residential and non-residential buildings in order to transition 25 percent of its existing  
4 buildings to be “zero carbon” by 2030 and 100 percent of its existing buildings by 2045.

5 Contra Costa County and Solano County are also advancing building electrification. On  
6 March 17, 2025, Contra Costa County adopted a series of reach codes including electric readiness  
7 requirements and more stringent source energy compliance margins for non-residential, single-  
8 family, and multi-family buildings (Ordinance 2024-17).<sup>36</sup> The Commission also identified 13  
9 potential zonal decarbonization pilot sites implementing Senate Bill 1221 (Min, 2024) known as  
10 “priority neighborhood decarbonization zones” within Contra Costa County.<sup>37</sup> Solano’s 2011  
11 Climate Action Plan<sup>38</sup> notes its interest in implementing energy efficiency upgrades to its building  
12 stock, since most buildings in its unincorporated county were built prior to the adoption of  
13 California Energy Code (Title 245) in 1978.

14 Beyond local policies advancing electrification, all of MCE’s service falls within the  
15 jurisdiction of the Bay Area Air District (“BAAD”). BAAD adopted two policies in March 2023  
16 to advance building electrification and limit air pollution from natural gas appliances. BAAD  
17 specifically adopted Rule 9-4: Nitrogen Oxides from Natural Gas-Fired Furnaces – 2023

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reach code changes statewide. However, nonresidential code updates continue their usual cycle. A.B. 130 (Wicks, 2025)

<sup>35</sup> “Regional Climate Action and Adaptation Plan: Public Draft,” Napa County. August 2025, available at: <https://www.napacounty.gov/3732/Regional-Climate-Action-Adaptation-Plan->

<sup>36</sup> Contra Costa County Ordinance 2024-17 Source Energy Margins, available at: <https://www.contracosta.ca.gov/DocumentCenter/View/86230/Ordinance-2024-17-Source-Energy-Margins-PDF>.

<sup>37</sup> Decision 25-12-042, Appendix A: PRELIMINARY NEIGHBORHOOD DECARBONIZATION ZONES.

<sup>38</sup> Solano County Climate Action Plan. June 2011, available at: <https://www.solanocounty.gov/government/resource-management/planning-services/environmental-management-sustainability/climate-action-plan-sea-level-rise>.

1 Amendment<sup>39</sup> and Rule 9-6: Nitrogen Oxides Emissions from Natural Gas-Fired Water Heaters –  
2 2023 Amendment<sup>40</sup> which, at the time of filing, place point of sale restrictions on certain natural  
3 gas appliances beginning in 2027 across the 9 counties it serves.<sup>41</sup> Additionally, statewide  
4 standards such as California’s 2025 Building Code,<sup>42</sup> and the forthcoming California Air  
5 Resources Board (“CARB”) Zero-Emission Space and Water Heater Standard<sup>43</sup> will play a major  
6 role in coordinating electrification efforts across all four counties. MCE will continue to track and  
7 engage with relevant building decarbonization standards impacting its service area throughout the  
8 portfolio period. MCE will, as appropriate, design and leverage EE programs in close coordination  
9 with relevant building decarbonization standards in its service area for the advancement of shared  
10 objectives.

## 11 **6. Climate Trends and Impacts**

12 MCE’s service area spans three different climate zones (“CZs”), which dictate building  
13 design, equipment specification, and the effectiveness of various efficiency measures. The CZs  
14 include:

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<sup>39</sup> BAAD, Regulation 9 Rule 4: Nitrogen Oxides from Natural Gas-Fired Furnaces – 2023 Amendment, available at: [https://www.baaqmd.gov/rules-and-compliance/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces?rule\\_version=2021%20Amendment](https://www.baaqmd.gov/rules-and-compliance/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces?rule_version=2021%20Amendment).

<sup>40</sup> BAAD, Regulation 9 Rule 6: Nitrogen Oxide Emissions from Natural Gas-Fired Water Heaters – 2023 Amendment, available at: [https://www.baaqmd.gov/rules-and-compliance/rules/reg-9-rule-6-nitrogen-oxides-emissions-from-natural-gas-fired-water-heaters?rule\\_version=2021%20Amendment](https://www.baaqmd.gov/rules-and-compliance/rules/reg-9-rule-6-nitrogen-oxides-emissions-from-natural-gas-fired-water-heaters?rule_version=2021%20Amendment).

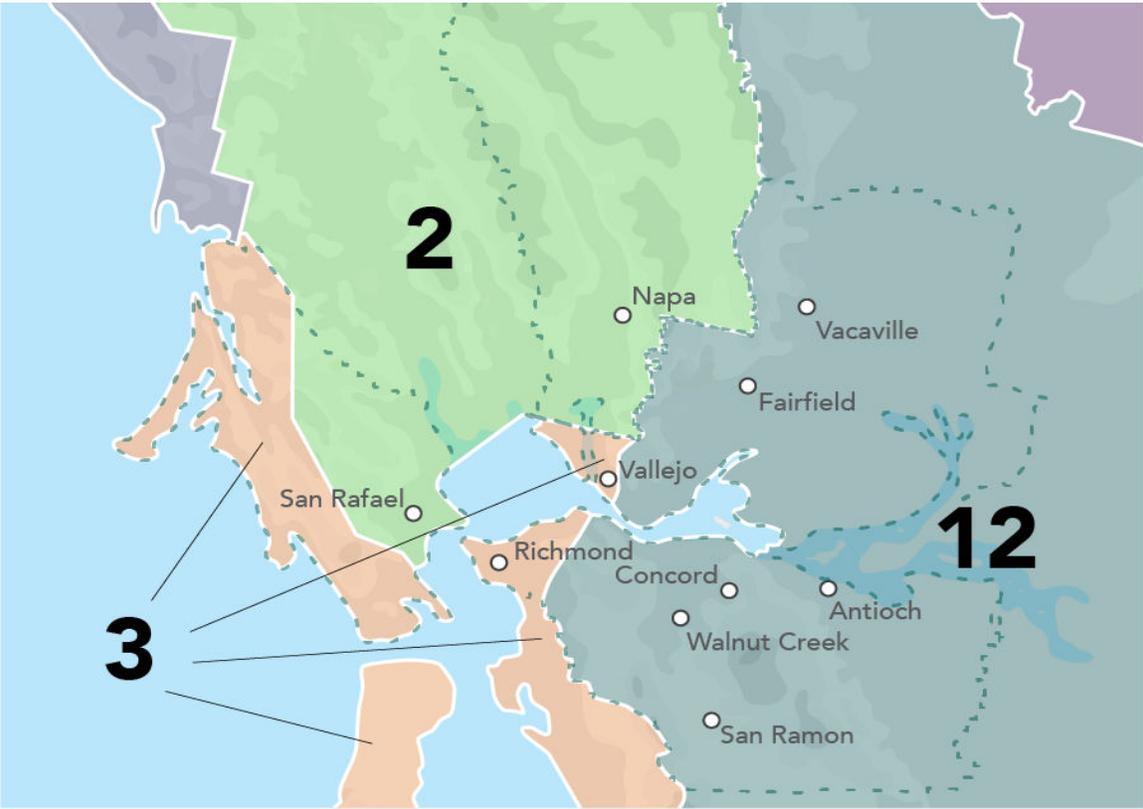
<sup>41</sup> Bay Area Air District released a Concepts Paper considering and discussing potential amendments to its building appliance rules in October 2025. The Bay Area Air District is actively soliciting public comments and considering potential amendments to building appliance rules at the time of Application filing. MCE will continue to track and coordinate with relevant efforts as they evolve. *See, e.g.*, BAAD, Appliance Rules Concept Paper Overview, October 2025, available at: [https://www.baaqmd.gov/~media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/appliance-rules-concept-paper\\_12\\_2\\_25-pdf.pdf?rev=bc39e07f66724bb6abb2b4f7d6400cc9&sc\\_lang=en](https://www.baaqmd.gov/~media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/appliance-rules-concept-paper_12_2_25-pdf.pdf?rev=bc39e07f66724bb6abb2b4f7d6400cc9&sc_lang=en).

<sup>42</sup> California Energy Commission, 2025 Building Energy Efficiency Standards, available at: <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency>.

<sup>43</sup> CARB, Zero emission Space and Water Heater Standards, available at: <https://ww2.arb.ca.gov/our-work/programs/zero-emission-space-and-water-heater-standards> (no final rule at time of filing).

- 1           • CZ2 – Coastal Marin County: heating degree day (“HDD”) dominated, where  
2           temperatures are cooler than standard;
- 3           • CZ3 – Inland Marin County, Napa County, Western Contra Costa County: HDD is the  
4           design concern, but relatively mild; and
- 5           • CZ12 – Eastern Contra Costa County and Solano County: while still HDD dominated,  
6           there are significantly more cooling degree days (“CDD”) than in CZ2 or CZ3.  
7           Temperatures are warmer than standard with highs reaching 100 degrees Fahrenheit.<sup>44</sup>

8           **Figure 2-4: Climate Zones in MCE’s Service Area**



9

10           Over the past century, the climate in MCE’s service area and California as a whole has  
11           trended warmer, leading to an increase in CDD with a corresponding decline in HDD.

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<sup>44</sup> California Energy Commission, Climate Zone tool, maps, and information supporting the California Energy Code, available at: <https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/climate-zone-tool-maps-and>.

1 Furthermore, the counties in MCE’s service area fall within California’s “climate divisions”<sup>45</sup> that  
2 have experienced the largest percentage increase in CDD over the last century. Whereas the  
3 number of CDD in August in California increased by approximately 106% since 1895,<sup>46</sup> the  
4 number of August CDD in California Climate Division 1 (the “North Coast Drainage” which  
5 includes Marin and portions of Napa and Solano Counties) increased by 190% over the same time  
6 frame. In addition, the number of August CDD in California Climate Division 4 (the “Central  
7 Coast Drainage,” which includes portions of Contra Costa County) increased by 174% over the  
8 same time frame. Moreover, the trend of increasing CDD has accelerated over the past decade.<sup>47</sup>  
9 Adapting to this hotter climate will lead to more energy consumption directed at space cooling  
10 from both existing and newly installed equipment. The increase in energy consumption for space  
11 cooling will likely be accompanied by a corresponding but smaller reduction in energy  
12 consumption from space heating.

13 The changing climate presents heightened fire risks in the wildland-urban interface  
14 (“WUI”) areas<sup>48</sup> of MCE’s service area. Recognizing this, and the potential for overhead utility  
15 power lines to spark fires, the Commission developed fire threat maps to set areas of higher fire

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<sup>45</sup> NOAA’s Climate Division Dataset divides each state into six to ten climate divisions and then averages all daily temperature and precipitation observations in each climate division into areal and monthly averages. This is the only long-term temporally and spatially complete dataset from which to generate historical climate analyses (1895-2013) for the contiguous United States. It was originally developed for climate division, statewide, regional, national, and population-weighted monitoring of drought, temperature, precipitation, and heating/cooling degree day values.

<sup>46</sup> Nat’l Oceanic and Atmospheric Administration, Climate at a Glance, Statewide Time Series, Cooling Degree Days over 12 months, available at: <https://www.ncdc.noaa.gov/cag/statewide/time-series>. The baseline used is 1895.

<sup>47</sup> Nat’l Oceanic and Atmospheric Administration, Climate at a Glance, Divisional Time Series, available at: <https://www.ncdc.noaa.gov/cag/divisional/time-series>.

<sup>48</sup> WUI is defined as “the zone of transition between unoccupied land and human development. It is the line, area or zone where structures and other human development meet or intermingle with undeveloped wildland or vegetative fuels.” See U.S. Fire Administration, “What is the WUI”, available at: <https://www.usfa.fema.gov/wui/what-is-the-wui/>.

1 risk where stricter fire-safety regulations should apply.<sup>49</sup> These maps indicate that most of Marin  
2 and Napa Counties, and nearly half of Contra Costa County are located in Commission-designated  
3 High Fire Threat Districts (“HFTDs”) – Tier 2 (elevated – displayed in yellow in Figure 2-6 below)  
4 and Tier 3 (extreme – displayed as red in Figure 2-6 below).

5 **Figure 2-5: High-Fire Threat Districts in MCE’s Service Territory<sup>50</sup>**



6  
7 **7. Conclusion**

8 Overall, MCE’s service area presents both challenges and opportunities to effectively  
9 administer EE programs. MCE has experience consistently overcoming those challenges by  
10 implementing a locally tailored, flexible program design and deployment strategy that evolves to

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<sup>49</sup> See Cal. Pub. Util. Comm’n, PUC Fire Safety Rulemaking Background, available at: <https://www.cpuc.ca.gov/industries-and-topics/wildfires/fire-threat-maps-and-fire-safety-rulemaking>.

<sup>50</sup> See Cal. Pub. Util. Comm’n, HFTD map, available at: <https://www.arcgis.com/apps/webappviewer/index.html?id=5bdb921d747a46929d9f00dbdb6d0fa2>.

1 meet its customers’ needs throughout portfolio implementation. For the 2028-2031 program cycle,  
 2 MCE is proposing to deploy a suite of strategies that will help it continue to overcome the  
 3 implementation barriers associated with its unique service area, and provide solutions that  
 4 maximize system benefits and optimize customer outcomes.

5 **8. Summary Tables**

6 MCE provides the below Tables summarizing its expected performance metrics for the  
 7 four- and eight-year budget requested:

8 **Table 2-3: 4-year Portfolio Budget Forecast Summary (2028-2031)**

<b>4-year Portfolio Budget Forecast Summary (2028-2031) (\$000)</b>					
	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>Total (4 Years)</b>
<b>Total Budget</b>	\$15,577	\$16,454	\$16,556	\$16,664	\$65,251
<b>Resource Acquisition Segment Budget</b>	\$9,502	\$10,037	\$10,099	\$10,165	\$39,803
<b>Market Support Segment Budget</b>	\$765	\$808	\$813	\$818	\$3,203
<b>Equity Segment Budget</b>	\$4,687	\$4,951	\$4,982	\$5,014	\$19,635
<b>Codes and Standard Budget</b>	\$0	\$0	\$0	\$0	\$0
<b>EM&amp;V</b>	\$623	\$658	\$662	\$667	\$2,610
<b>Administration</b>	\$1,020	\$1,460	\$1,499	\$1,539	\$5,518
<b>ED Portfolio Oversight</b>	\$0	\$0	\$0	\$0	\$0

9

**Table 2-4: 4-year Portfolio Forecast Summary (2028-2031)**

<b>4-year Portfolio Budget Forecast Summary (2028-2031) (\$000)</b>						
	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>Resource Acquisition Segment Only (Total 4-Year)</b>	<b>Total (4 Years)</b>
<b>Total System Benefit (TSB)</b>	\$16,737	\$17,452	\$18,224	\$19,012	\$58,392	\$71,426
<b>Total Resource Cost (TRC) Ratio</b>	0.98	0.97	1.00	1.03	1.23	1.00
<b>Program Administrator Cost (PAC) Ratio</b>	1.07	1.06	1.10	1.13	1.43	1.09
<b>Societal Cost Test (SCT) Base</b>	1.30	1.29	1.33	1.37	1.59	1.35
<b>Societal Cost Test (SCT) High</b>	1.30	1.29	1.33	1.37	1.60	1.35
<b>Ratepayer Impact Measure Test Ratio (RIM)</b>	0.58	0.58	0.59	0.59	0.71	0.58
<b>Lifecycle GWh<sup>51</sup></b>	27	27	27	27	192	109
<b>First Year MW</b>	1,467	1,467	1,467	1,467	5,553	5,868
<b>Lifecycle MMTherms</b>	7	7	7	7	16	26.3
<b>Lifecycle CO2 Metric Tons</b>	4,739	4,044	3,952	3,931	14,577	16,666

<sup>51</sup> Resource Acquisition segment GWh savings exceed Total (4 Years) GWh savings due to the high volume of electrification measures forecasted within the Equity segment.

1

**Table 2-5: 4-year Portfolio Budget Forecast Summary (2032-2035)**

<b>4-year Portfolio Budget Forecast Summary (2028-2031) (\$000)</b>					
	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>Total (4 Years)</b>
<b>Total Budget</b>	\$16,777	\$16,896	\$17,021	\$17,151	\$67,845
<b>Resource Acquisition Segment Budget</b>	\$10,234	\$10,306	\$10,383	\$10,462	\$41,385
<b>Market Support Segment Budget</b>	\$824	\$829	\$835	\$842	\$3,330
<b>Equity Segment Budget</b>	\$5,048	\$5,084	\$5,122	\$5,161	\$20,415
<b>Codes and Standard Budget</b>	\$0	\$0	\$0	\$0	\$0
<b>EM&amp;V</b>	\$671	\$676	\$681	\$686	\$2,714
<b>Administration</b>	\$1,585	\$1,633	\$1,682	\$1,732	\$6,632
<b>ED Portfolio Oversight</b>	\$0	\$0	\$0	\$0	\$0

2

1 **Table 2-6: 4-year and 8-year IOUs Total System Benefit Forecast (w/out C&S) vs. Goals**

<b>4-Year and 8-Year Total System Benefit Forecast vs. Goals (\$000)</b>			
<b>Year</b>	<b>Total System Benefit Forecast</b>	<b>Total System Benefit Goals</b>	<b>Percent of TSB Goal</b>
<b>2028</b>	\$16,737	\$16,737	100%
<b>2029</b>	\$17,452	\$17,452	100%
<b>2030</b>	\$18,224	\$18,224	100%
<b>2031</b>	\$19,012	\$19,012	100%
<b>Total (4 years)</b>	\$71,426	\$71,426	100%
<b>2032</b>	\$19,818	\$19,818	100%
<b>2033</b>	\$20,642	\$20,642	100%
<b>2034</b>	\$21,542	\$21,542	100%
<b>2035</b>	\$22,413	\$22,413	100%
<b>Total (4 years)</b>	\$84,416	\$84,416	100%
<b>Cumulative (8 years)</b>	\$155,842	\$155,842	100%

2

1 **Chapter 3: Portfolio Strategies**

2 In this Chapter, Marin Clean Energy (“MCE”) discusses all the Portfolio Strategies  
3 identified in the California Public Utilities Commission (“CPUC” or “Commission”) Energy  
4 Division staff issued *EE Business Plan Application Template*.<sup>52</sup> MCE utilizes each of the strategies  
5 discussed in this Chapter to accomplish the Commission’s energy efficiency (“EE”) goals. Some  
6 of these strategies target specific sectors or segments, while others apply more broadly across all  
7 of MCE’s programs. Collectively, these strategies operate synergistically to accomplish the  
8 ambitious and wide-ranging EE goals laid out by the Commission, the state, and stakeholders in  
9 MCE’s service area. MCE discusses additional sector specific strategies in **Chapter 6:**  
10 **Segmentation and Sector Strategy.**

11 **1. Advance affordability and mitigate overall rate impacts**

12 MCE’s EE programs advance affordability and mitigate overall rate impacts by reducing  
13 energy consumption, lowering energy burdens, and decreasing systemwide demand during the  
14 most expensive hours on the grid. By delivering targeted efficiency upgrades—particularly in  
15 income-qualified homes and historically underserved small businesses—these programs help  
16 customers directly lower their monthly energy bills while also reducing arrearages and long-term  
17 energy insecurity. At the system level, efficiency measures and load-shifting strategies decrease  
18 overall procurement costs by both reducing peak demand and overall demand, thereby helping to  
19 moderate rates for all customers. MCE designed its Equity segment program offerings to maximize  
20 bill savings for customers experiencing the highest energy burdens. MCE committed the maximum  
21 budget cap to Equity and Market Support segments and suggests altering the cap to better mitigate  
22 energy affordability challenges, as discussed further in **Chapter 11: Policy Recommendations.**

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<sup>52</sup> Final version issued February 4, 2026.

1           In addition to the general reduction of rates described above, MCE layers its EE offerings  
2 with other complementary programs, rebates, and offerings, with the goal of leveraging its  
3 approved EE budget so that it may have the maximum impact possible. MCE has designed these  
4 programs to incentivize participation; maximize Total System Benefit (“TSB”); enhance cost-  
5 effectiveness of ratepayer dollars; deliver greater non-energy benefits (“NEBs”) like improved  
6 health, safety, and comfort; and lower customers’ bills. For example, MCE’s Small Business  
7 Energy Advantage Program (“SBEA”) amplifies affordability benefits by connecting eligible  
8 customers in disadvantaged communities with MCE’s Cares Credit—a \$25/month bill relief  
9 discount alongside EE opportunities.<sup>53</sup> Similarly, MCE stacks Transformative Climate  
10 Community (“TCC”) funds with MCE’s Home Energy Savings (“HES-E”) funds to offer deeper  
11 direct install retrofits to more customers in the city of Richmond.<sup>54</sup> Together, these efforts support  
12 MCE’s mission to deliver equitable, affordable, and reliable service while reducing cost pressures  
13 across the portfolio.

14           Advancing affordability and producing bill savings is especially critical during the 2028-  
15 2031 portfolio period. California has entered an energy affordability crisis<sup>55</sup> and rates are predicted  
16 to continue increasing through 2028.<sup>56</sup> Affordability-focused EE strategies are one of the only tools

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<sup>53</sup> MCE’s Board of Directors approved \$5 million dollars in funding for bill relief for low-income customers and small businesses. MCE, MCE Cares Credit, June 2024, available at: <https://mcecleanenergy.org/as-electricity-bills-soar-mce-offers-relief/>.

<sup>54</sup> Unlike certain EE funds, TCC funds can be used for purposes of electrical readiness like mold/pest remediation, electrical repair, measure drainage, electrification-related home repair (drywall repair, platform construction, etc.). Richmond Rising, Learn About the Projects, available at: <https://richmondrisingca.org/projects/> (Resilient Homes and Landscapes).

<sup>55</sup> Sierra Club, California’s Affordability Crisis: Utilities Asking for More Money for Shareholders, November 2025, available at: <https://www.sierraclub.org/articles/2025/11/california-s-affordability-crisis-utilities-asking-more-money-shareholders>.

<sup>56</sup> CPUC, 2025 Senate Bill 695 Report, 2025, available at: [https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/office-of-governmental-affairs-division/reports/2025/2025-sb-695-report\\_093025.pdf](https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/office-of-governmental-affairs-division/reports/2025/2025-sb-695-report_093025.pdf), p. 2 (“...electric bundled residential average annual rate (RAR) increases over the period 2016 – 2024 were about 11 percent, 8 percent, and 7 percent for PG&E, SCE, and SDG&E, respectively, compared to an

1 customers can use to protect themselves against high rates while simultaneously helping to reduce  
2 system-wide power procurement costs and greenhouse gas (“GHG”) emissions. If customers  
3 cannot reduce their usage, they are at greater risk of arrearages and disconnection, which present  
4 tremendous health and safety risks to impacted customers and California.<sup>57</sup>

5 **2. Optimize TSB achievement and cost-effectiveness, as well as TSB achieved**  
6 **per ratepayer dollar spent**

7 MCE’s core strategies to optimize TSB achievement and maintain portfolio cost  
8 effectiveness are to: (1) align program payments with TSB whenever possible, (2) focus on the  
9 promotion and installation of high TSB measures, (3) promote behavioral-based programs, which  
10 typically offer WO or no-cost measures with significant TSB, and (4) continuously and iteratively  
11 improve MCE’s programs by prioritizing and deploying learnings.

12 MCE’s primary strategy to maximize TSB is to align program payments with TSB  
13 wherever possible. This strategy leverages the important role of normalized metered energy  
14 consumption (“NMEC”) programs, which provide incentives based on measured performance. In  
15 addition, MCE’s programs will tie implementer compensation directly to delivered TSB through  
16 pay-for-performance incentives. This dynamic creates clear economic motivation for  
17 implementers to deliver high-TSB projects, which in turn allows MCE to maintain a cost-effective  
18 portfolio.

19 Second, MCE will continue to deploy and promote high TSB programs. This includes  
20 expanding its Strategic Energy Management (“SEM”) program and growing its Residential and

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inflation rate of 3.5 percent over the same period and are expected to continue increasing above inflation through 2028.”).

<sup>57</sup> The Utility Reform Network (“TURN”), Living Without Power: Health Impacts of Utility Shutoffs in California, 2018, available at: [https://downloads.ctfassets.net/ntcn17sslow9/2AXQK5Lv4gwQkgD88IAGDY/f9b42f76d4d3bde79c4e84060bce9710/2018\\_TURN\\_Shut-Off-Report\\_FINAL.pdf](https://downloads.ctfassets.net/ntcn17sslow9/2AXQK5Lv4gwQkgD88IAGDY/f9b42f76d4d3bde79c4e84060bce9710/2018_TURN_Shut-Off-Report_FINAL.pdf), p. 5 (connecting shutoffs to hunger, respiratory illness, early childhood development risks, stress, fire risks, life support and chronic illness impacts).

1 Commercial Flex Market programs.<sup>58</sup> This effort is based on strong implementer partnerships and  
2 begins with selecting program implementers with the expertise to deliver strong results, developing  
3 effective outreach strategies, and deploying high-TSB measure projects.

4 Third, to improve cost effectiveness, MCE will continue to develop strategies to help  
5 customers identify low- to no-cost EE opportunities through behavioral-based programs. MCE  
6 plans to expand its SEM program and recruit additional large industrial and commercial customers  
7 to this program. Large industrial and commercial programs present tremendous cost-effective  
8 energy savings opportunities due to their high baseline energy consumption. In addition, MCE  
9 plans to launch a new behavioral focused subprogram for small and medium business within the  
10 Energy Management program.<sup>59</sup> Lastly, MCE will grow its integrated demand-side management  
11 (“IDSM”) programming<sup>60</sup> to provide high-TSB with low program costs.<sup>61</sup>

12 MCE’s portfolio design is built on the strong foundation of its existing programs that it  
13 believes will continue to achieve cost-effectiveness in the next business plan application cycle.  
14 MCE is also committed to iteratively improving its programs based on lessons learned in previous  
15 program years, and continuously striving to optimize the TSB achieved. Further, as described in  
16 **Chapter 9: Evaluation, Measurement & Verification** (“EM&V”), MCE will conduct E&MV  
17 projects that MCE anticipates will generate additional portfolio efficiencies.

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<sup>58</sup> MCE’s SEM program and MCE’s Residential and Commercial Flex Market programs are described in detail in **Chapter 6: Segmentation and Sector Strategy**.

<sup>59</sup> The Energy Management program, is described in detail in **Chapter 6: Segmentation and Sector Strategy**.

<sup>60</sup> MCE AL 74-E (proposing MCE’s IDSM program); CPUC, Resolution E-5387 Proposals submitted by Pacific Gas & Electric Company (“PG&E”), Southern California Edison Company (“SCE”), Southern California Gas Company (“SoCalGas”), San Francisco Bay Area Regional Energy Network (“BayREN”), Inland Regional Energy Network (“I-REN”), Marin Clean Energy (MCE), Southern California Regional Energy Network (“SoCalREN”), and Tri-County Regional Energy Network (“3C-REN”), detailing their intended multi-distributed energy resource integrated demand side management frameworks and programs.

<sup>61</sup> MCE’s IDSM programming is described in detail in **Chapter 6: Segmentation and Sector Strategy**.

1           **3. Advance building decarbonization activities in EE portfolios**

2           MCE’s EE portfolio incorporates building decarbonization as a foundational principle  
3 across all programs, sectors, and customer segments. Advancing affordable, equitable, and  
4 community-led decarbonization solutions is key to MCE’s mission.<sup>62</sup> Because EE is itself a  
5 decarbonization strategy, all MCE programs inherently contribute to GHG reduction. Over time,  
6 MCE’s portfolio has evolved to prioritize program design and implementation that promotes  
7 building electrification, and does not include incentives or services for gas-fired appliances.<sup>63</sup>

8                   **3.1 Decarbonization Incentives**

9           MCE’s Equity programs, including the Home Energy Savings Equity program (“HES-E”),  
10 Multifamily Energy Savings Equity program (“MFES-E”), and the SBEA provide incentives for  
11 multifamily, single-family, and commercial property owners and tenants, respectively, with a  
12 focus on moderate- and low-income households and commercial customers within disadvantaged  
13 communities. The programs pinpoint the best fit for effective and efficient electrification and EE  
14 measures, while providing education to customers on the advantages of electrification. Each  
15 program begins with a comprehensive onsite energy assessment to determine optimal project  
16 design that includes a combination of electrification and EE measures and approaches. Expert  
17 implementers next recommend comprehensive projects that integrate electrification with EE

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<sup>62</sup> MCE, About, <https://mcecleanenergy.org/about/> (“Our mission is to confront the climate crisis by eliminating fossil fuel greenhouse gas emissions, producing renewable energy, and creating equitable community benefits.”).

<sup>63</sup> See e.g., Opening Comments of Marin Clean Energy on Administrative Law Judge’s Ruling on Providing Notice and Opportunity to Comment on Staff Proposal for Policy on Natural Gas Energy Efficiency Incentives, pp. 1-4 (describing MCE’s building electrification programs within the EE portfolio and its support for policies that enable greater electrification).

1 measures to maximize affordability, health, safety, and comfort benefits. MCE regularly layers  
2 external funds to serve additional customers and provide deeper electrification focused retrofits.<sup>64</sup>

3 For the Resource Acquisition (“RA”) segment, MCE has built on the success of the equity  
4 residential programs, namely MFES-E and HES-E, and has launched RA programs that mirror the  
5 project process and successful programmatic elements. MCE’s MFES-R<sup>65</sup> and HES-R programs  
6 offer incentives for electrification upgrades that begin with the same comprehensive onsite energy  
7 assessment to determine project design. MFES-R and HES-R programs suspend the Equity  
8 segment eligibility requirements of MFES-E and HES-E to allow more customers facing barriers  
9 to electrification to participate. Incentives for the installation of heat pumps and other efficient  
10 electric measures support decarbonization across MCE’s market-rate residential customers. MCE  
11 designed the MFES-R and HES-R programs to deliver short-term cost-effective avoided-cost  
12 benefits to the electricity and natural gas systems. By focusing on electrification measures that  
13 reduce the use of natural gas, the MFES-R program supports progress on the state’s GHG  
14 emissions reductions and decarbonization goals.

15 For commercial customers, MCE’s Residential Efficiency Flex Market program offers  
16 upfront incentives to aggregators for installing cost-effective decarbonization measures. By  
17 stacking MCE and partner program incentives, the Residential Efficiency Flex Market helps bring  
18 higher-cost and less common decarbonization technologies, such as heat pumps, closer to cost  
19 parity while expanding contractor experience in these installations.

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<sup>64</sup> Including, but not limited to the Transformative Climate Communities: Richmond Rising, Equitable Building Decarbonization program, and MCE’s self-funded ancillary measures fund. MCE is also actively involved in implementing S.B. 1221 (Min, 2024) for neighborhood decarbonization pilots and exploring layering options.

<sup>65</sup> MCE submitted the program launch request for MFES-R in MCE AL 91-E, pp. 10-12. The Commission accepted MCE AL 91-E with an effective date of January 20, 2026.

### 3.2 Evaluation, Measurement, and Verification (EM&V)

MCE’s EM&V activities focus on improving the overall design, implementation, and performance of building decarbonization programs to ensure effective service delivery across sectors. In this Application, MCE proposes an EM&V study focused on identifying cost-effective retrofit strategies to support the decarbonization of existing manufactured homes within its service area. Manufactured homes represent a critical equity and emissions-reduction opportunity, as these households often face higher energy burdens, limited access to capital, and unique structural challenges that complicate electrification.<sup>66</sup> MCE plans to assess retrofit and electrification pathways for manufactured homes in its service area. MCE’s Manufactured Homes Electrification EM&V study will explore:

- Passive design and weatherization improvements suitable for existing manufactured housing stock;
- Sealing, insulation, and ventilation measures that can enhance comfort and reduce energy loss;
- Pathways for electrification retrofits, including efficient space conditioning, water heating, and cooling technologies;
- Financing and implementation models that make upgrades more accessible to low-income and fixed-income residents; and
- The impacts of the above on total system benefits and the total resource cost ratio for this historically underserved housing type.

Study findings will inform future program design guidance, regional decarbonization policy coordination, and MCE’s broader equity and decarbonization strategies. This data will also support advancing equitable building decarbonization statewide in alignment with state policies.<sup>67</sup>

MCE discusses additional EM&V details in **Chapter 9: Evaluation, Measurement and Verification.**

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<sup>66</sup> *Id.*

<sup>67</sup> AB 806 (Connolly, 2025).

### 3.3 Decarbonization Workforce Support

MCE’s Market Support program (the Green Workforce Pathway Program (“GWPP”))<sup>68</sup> advances building decarbonization by expanding workforce capacity to install and maintain advanced EE and electrification technologies while creating sustainable employment in the developing electrification industry. Through the GWPP, MCE specifically supports decarbonization by:

- Aiding the development of a workforce that advances electrification and supports statewide and regional EE and GHG reduction goals.
  - Fostering growth of the decarbonization economy through collaboration between job seekers and contractors.
  - Building partnerships between MCE and industry professionals that help reduce costs of electrification by providing needed training to expand providers in MCE’s service area and encourage customer adoption of decarbonization and EE measures.
- Growing and strengthening regional coalitions among municipalities, community-based organizations, community choice aggregators, and Load Serving Entities (“LSEs”) to align efforts around decarbonization.

#### 4. Focus electric savings at peak times with high avoided cost and TSB

The Flex Market and IDSM programs are focused on delivering electric savings at peak times, by offering incentives that are tied to the measure load shape, higher during peak hours, and lower during off-peak hours. Within these programs MCE utilizes data analytics to identify customers who have high peak load and market the program directly to those customers.<sup>69</sup> Part of this analysis identifies potential end uses, such as heating, cooling, and lighting, that can also inform the customer identification.

Another way that MCE promotes the shift out of the peak period is through education and marketing activities, both within CPUC-funded programs and through its broader non-CPUC-

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<sup>68</sup> This program is described in detail in **Chapter 6: Segmentation and Sector Strategy**.

<sup>69</sup> MCE is committed to offering EE programs to all its customers, complying with all applicable data privacy laws, ensuring equitable access to its programs, and following Commission requirements for program administration. MCE’s use of its data analytics tool is rooted in those core principles.

1 funded outreach activities. MCE’s SBEA program provides customers an educational collateral,  
2 as well as energy coaching during the recruitment and enrollment process. MCE’s SEM program  
3 also has an educational module which includes the discussion of IDSM and the importance of load  
4 management and reducing usage during the peak period. Lastly, MCE’s marketing team runs an  
5 annual campaign of reducing 4-9pm usage to all MCE customers. Historically the messaging has  
6 been via both digital and print media.<sup>70</sup>

## 7 **5. Use of meter-based savings measurement**

8 MCE has leveraged meter-based savings measurement in its RA portfolio for many years  
9 and will continue into this business plan application cycle. For example, MCE’s Flex Market  
10 program has been a successful population-NMEC program since 2022. In addition, MCE will  
11 continue to run its SEM program, which leverages meter data in the assessment of Behavioral  
12 Retro-commissioning and Operational (“BRO”) measures. MCE is building on these successful  
13 projects with a new Low-GWP Refrigerant Accelerator program,<sup>71</sup> which will include population  
14 NMEC based savings, in addition to the Refrigerant Avoided Cost Calculator (“RACC”) TSB  
15 value derived from ultra-low global warming potential technologies.

16 In this cycle MCE would like to utilize custom load shapes<sup>72</sup> based on metered savings,  
17 assuming the functionality is available in the Cost-Effectiveness Tool (“CET”).<sup>73</sup> Custom load  
18 shapes would demonstrate actual, real-world savings and grid conditions which may be greater

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<sup>70</sup> See MCE, Check the Time from 4 to 9, available at <https://mcecleanenergy.org/4-9-energy-savings/>.

<sup>71</sup> This program is described in detail in **Chapter 6: Segmentation and Sector Strategy** and Low-GWP Refrigerant Accelerator Program Card in **Exhibit 2: Program Cards**.

<sup>72</sup> CPUC, California Energy Data and Reporting System (“CEDARS”), Load Shapes, available at: <https://cedars.cpuc.ca.gov/deer-resources/tools/load-shapes/> (defining and discussing load shapes).

<sup>73</sup> CPUC, Memo: CPUC MEASURE PACKAGE GUIDANCE FOR LOAD SHAPES, December 2021, available at: [https://cedars.cpuc.ca.gov/deer-resources/tools/load-shapes/file/118/download/#:~:text=11-Cost%20Effectiveness%20Tool%20\(CET\),hourly%20end%20use%20load%20shapes](https://cedars.cpuc.ca.gov/deer-resources/tools/load-shapes/file/118/download/#:~:text=11-Cost%20Effectiveness%20Tool%20(CET),hourly%20end%20use%20load%20shapes) (“Cost Effectiveness Tool (CET). The CET is used to calculate the cost effectiveness of a measure and/or portfolio of measures. The CET uses the avoided cost combo values developed from the avoided costs and the hourly end use load shapes.”)

1 than those that would be valued using a modeled load shape on a deemed measure basis. Adopting  
2 custom load shapes for measurement and verification aligns the hourly savings valuation and  
3 subsequent TSB calculation.

4 **6. Promote and deploy “exempt measures” in the equity segment, including**  
5 **targeted outreach and engagement and pilots to identify and develop solutions**  
6 **for key barriers, needed education and training/workforce readiness and**  
7 **technical assistance, and other relevant elements.**

8 The Commission defines “exempt measures” as gas-saving measures that do not burn gas,  
9 such as insulation, air sealing, efficient windows and doors, smart thermostats, low-flow fixtures,  
10 behavioral programs, and energy audits.<sup>74</sup> Electrification measures also qualify as exempt, as they  
11 generate gas savings without burning gas. MCE strongly supports prioritizing equity and market  
12 support customers in the Commission’s decarbonization policies within the EE portfolio. Equity  
13 customers, especially, are disproportionately impacted by the varied health impacts of natural gas  
14 appliances in California.<sup>75</sup> Equity customers simultaneously face greater barriers to electrification,  
15 often require additional ancillary EE measures prior to electrification, and are historically  
16 underserved by EE programs more broadly.<sup>76</sup> Equity customers also experience higher energy  
17 burdens, devoting more than two to three times the percentage of their income to energy costs than  
18 other customers.<sup>77</sup>

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<sup>74</sup> D.23-04-035, Conclusion of Law 1; CPUC Energy Division Staff, Energy Efficiency Natural Gas Incentive Phase-Out Staff Proposal (DRAFT), December 2025, p. 1.

<sup>75</sup> UCLA Fielding School of Public Health Department of Environmental Health Sciences, 2020, available at: <https://coeh.ph.ucla.edu/effects-of-residential-gas-appliances-on-indoor-andoutdoor-air-quality-and-public-health-in-california/> (finding disproportionate impacts for low-income and environmental justice communities due to a variety of compounding factors like greater exposure to outdoor air pollution, low housing quality, living in a smaller unit, older building age, etc.).

<sup>76</sup> Evergreen Economics, Evaluation of MCE’s Low Income Families and Tenants (LIFT) Program, 2024, pp. 30-32 (detailing retrofit costs and barriers for low-income electrification projects).

<sup>77</sup> ACEEE, Drehobl, Ariel, Lauren Ross, and Roxana Ayala, How High Are Household Energy Burdens?, 2020, available at: <https://www.aceee.org/sites/default/files/pdfs/u2006.pdf>, pp. iii, v.

1 MCE began phasing out incentives for non-exempt gas measures within the Equity  
2 segment in 2021, starting with the HES-E (formerly Single-Family Direct Install) program,  
3 followed by common area and in-unit projects in the multifamily segment through the MFES-E  
4 and Low-Income Families and Tenants (“LIFT”) programs.<sup>78</sup> The SBEA program incentivizes  
5 exempt measures as well. In addition, the GWP Market Support program assists job seekers and  
6 contractors by promoting education and training in home electrification and exempt measures.

7 MCE’s Equity programs (HES-E, MFES-E, and SBEA) will continue to provide a variety  
8 of exempt measures and services at no- or low-cost to the customer, including:

- 9 • In-home assessments;
- 10 • Insulation;
- 11 • Duct and air sealing;
- 12 • Faucet aerators;
- 13 • Heat pump technologies;
- 14 • Induction cooking;
- 15 • Smart thermostats;
- 16 • Smart timers and outlets;
- 17 • Variable frequency drive motors; and
- 18 • Pipe insulation.

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<sup>78</sup> MCE launched the Low-Income Families and Tenants (“LIFT”) pilot program offered incentives to low-income multifamily properties from 2017 through 2023. LIFT goals were to reduce energy burden and improves the quality of life of residents in income-qualified multifamily properties in MCE’s service area. The Program offered EE, electrification, and health, safety, and comfort upgrades. *See* Evergreen Economics, Evaluation of MCE’s Low Income Families and Tenants (LIFT) Program, 2024.

1 Key barriers to deploying exempt measures among residential and commercial equity  
2 customers include split incentives,<sup>79</sup> customer awareness gaps,<sup>80</sup> cost and disruption concerns,  
3 and building diversity.<sup>81</sup> MCE addresses these challenges through comprehensive program design  
4 and ongoing adaptation.

5 First, to overcome split incentives between property owners and tenants, the MFES and  
6 SBEA programs provide incentives for both in-unit and common area upgrades. These programs  
7 offer generous incentives to cover installation costs that directly benefit tenants while providing  
8 owners with property value enhancements and health, safety, and comfort improvements through  
9 whole-building upgrades.

10 Second, to address tenant and property owner awareness and education gaps, MCE's  
11 program implementers and vendors provide technical assistance and project management to  
12 property owners and tenants to support informed decision-making, to clarify and refine best-fit  
13 options, and to align with financing opportunities where needed and applicable. The GWPP Market  
14 Support program similarly connects experienced and educated contractors with MCE programs  
15 and projects to promote electrification expertise and build work pipelines.

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<sup>79</sup> American Council for Energy Efficient Economy, Expanded Split Incentives in Buildings' Value Chains, (2024), available at:

[https://www.aceee.org/sites/default/files/proceedings/ssb24/assets/attachments/20240722160818906\\_fd1c24d3-02a5-4dc8-bf5c-7421b7fa6adf.pdf](https://www.aceee.org/sites/default/files/proceedings/ssb24/assets/attachments/20240722160818906_fd1c24d3-02a5-4dc8-bf5c-7421b7fa6adf.pdf), p. 2 (“A split incentive is when the benefit of a transaction is not accrued by the payer, discouraging the transaction. The classic example of this is the relationship between landlord and tenant. The landlord could install a more efficient heating system that would lower heating bills. However, if the tenant pays the heating bill, the landlord does not have a personal financial incentive. In fact, the landlord has a disincentive, as they would have to pay for the improvements and never make their money back. Therefore, the conflicting interests of the landlord and the tenant prevent energy efficiency from being implemented.”).

<sup>80</sup> DNV, MCE LOW-INCOME FAMILIES AND TENANTS PILOT PROGRAM EVALUATION, 2021, p. 34 (“Given the newness of the technology [electric heat pumps] and the lack of customer exposure to it, there could be potential misconceptions about and misuse of heat pump technology.”).

<sup>81</sup> Fadali, Lyla, Michael Waite, and Paul Mooney, ACEEE, The Value of Decarbonizing Equitable, Efficient Building Electrification, 2024, available at: [www.aceee.org/researchreport/b2405](http://www.aceee.org/researchreport/b2405), pp. 3-10.

1 Third, concerns regarding cost and project disruption are mitigated through substantial  
2 incentives that offset upgrade expenses, particularly for resource-constrained property owners and  
3 tenants in all Equity segment programs. MCE’s portfolio integrates multiple funding sources by  
4 stacking incentives from sources external to the CPUC for upgrades not included in CPUC  
5 programs. This enables installation and remediation of ancillary projects that support exempt  
6 measures installations, such as electrical panel or wiring improvements, light construction, and  
7 mold/pest remediation prep work.

8 Lastly, given the diversity in size, age, condition, and system type among all properties  
9 served by Equity segment programs, MCE continuously refines its program designs and offerings  
10 based on property feedback and field insights to meet a broad range of needs. For example, MCE,  
11 via its implementer, conducts post-install surveys with HES-E customers 72 hours following the  
12 installation of EE and electrification measures. These surveys provide vital data to support  
13 customers through program participation and refine programmatic implementation based on real-  
14 time customer satisfaction data.

15 To further strengthen implementation, MCE plans to develop targeted building  
16 decarbonization pilots across diverse building types to evaluate delivery models, cost, and  
17 logistics. Lessons learned from these pilots will inform refinements to program delivery and  
18 identify scalable approaches. Data collected on energy savings, tenant comfort, and owner  
19 satisfaction will be used to develop case studies and best practices that can assist in further  
20 education for existing, previous, and new program participants. Existing plans for pilot programs  
21 are discussed in **Chapter 6: Portfolio Strategies**, **Chapter 7: Portfolio Coordination**, and  
22 **Chapter 9: Evaluation, Measurement & Verification**.

1 Finally, MCE submits for the Commission’s consideration that there are additional  
2 Commission-imposed constraints to serving Equity segment customers with exempt measures.  
3 While exempt measures in Equity segment programs are not subject to cost-effectiveness tests,  
4 they can be resource- and budget-intensive. Equity segment program funding remains capped at  
5 30 percent of the overall portfolio, limiting the scale of deployment. From MCE’s research and  
6 understanding of its service area, this 30 percent cap is not proportional to the size of the Equity  
7 segment, and specifically, to Equity segment building decarbonization needs.<sup>82</sup> Direct install  
8 strategies, though effective, require significant resources and may remain constrained without  
9 additional budget allocations. MCE recommends revisiting this 30 percent cap in **Chapter 11:**  
10 **Policy Recommendations.** Nevertheless, by using pilots, leveraging complementary funding  
11 sources, and strategically targeting high-need properties, MCE can continue to maximize the  
12 impact and reach of its exempt measure initiatives in Equity and Market Support segment  
13 programs within these constraints.

14 **7. Increase progress on the CPUC ESJ Action Plan Goals.**

15 Programs in MCE’s Equity segment deliver EE services to hard-to-reach, underserved, and  
16 disadvantaged communities, in alignment with the Commission’s Environmental and Social  
17 Justice (“ESJ”) Action Plan.<sup>83</sup> In this application, MCE refers to all categories of customers  
18 eligible for its proposed Equity segment programs using the umbrella term “Equity customers.”  
19 MCE defines “Equity customers” as residential customers and businesses in ESJ communities.  
20 ESJ communities are defined by the Commissions ESJ Action Plan (2022),<sup>84</sup> although MCE

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<sup>82</sup> MCE discusses a policy recommendation to allow PAs to raise the Equity and Market Support segment caps to a level proportional to their Equity segment customers in detail in **Chapter 11: Policy Recommendations.**

<sup>83</sup> CPUC, ESJ Action Plan (Version 2.0), April 2022, available at: <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf>.

<sup>84</sup> *Id.*, p. 2.

1 applies an additional income modifier for those customers it targets with the HES-E program.<sup>85</sup>  
2 Expanding access to EE programs in ESJ communities not only advances energy savings goals,  
3 but also delivers vital co-benefits such as improved comfort, safety, indoor air quality, and lower  
4 utility bills, consistent with the ESJ Action Plan.<sup>86</sup>

5 **7.1 ESJ Action Plan Goal #2: Increase investment in clean energy**  
6 **resources to benefit ESJ communities, especially to improve local air**  
7 **quality and public health**

8 MCE’s Equity segment programs combine the goals of providing health and air quality  
9 benefits to customers with a commitment to serving ESJ communities. By using the following  
10 strategies, MCE addresses disparities in access to EE programs and promotes resilience, health,  
11 comfort, safety, energy affordability, and energy savings while reducing energy-related GHG and  
12 criteria pollutant emissions.

13 *a. Partnering with Trusted Implementers Experienced in Serving ESJ*  
14 *Communities*

15 MCE uses a competitive selection process and chooses implementation partners with  
16 demonstrated experience in the Equity sector and serving Equity customers. As energy equity  
17 focused programs are most effective when conducted by trusted messengers,<sup>87</sup> MCE selects  
18 implementation partners based on their experience serving ESJ communities and customers with  
19 culturally competent and in-language methods for communities where English is not the primary  
20 language. MCE also selects implementation partners with documented experience in delivering

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<sup>85</sup> Described further in **Chapter 6: Segmentation and Sector Strategy**.

<sup>86</sup> *Id.*, p. (Goal 2: Increase investment in clean energy resources to benefit ESJ communities, especially to improve local air quality and public health), pp. 22-23.

<sup>87</sup> California Energy Commission, Low-Income Barriers Study, Part A: Overcoming Barriers to Energy Efficiency and Renewables for Low-Income Customers and Small Business Contracting Opportunities in Disadvantaged Communities, 2016, p. 9 (“The Legislature should direct funding for all state programs to collaborate with trusted and qualified community-based organizations in community-centric delivery of clean energy programs, in coordination with local government”).

1 programs that provide GHG emissions mitigation and NEBs including bill savings, health, safety,  
2 and comfort benefits through installation of the appropriate technologies for each unique homes’  
3 needs, including EE and electrification measures.

4 *b. Low- or No-Cost Options Solve Cost Issues*

5 MCE provides accessible, no- or low-cost energy assessments, installations, and technical  
6 assistance. By combining multiple financing sources and incentive streams, MCE effectively  
7 reduces or eliminates customer out-of-pocket costs, removing a key barrier to participation for  
8 households and businesses with limited discretionary income.<sup>88</sup>

9 To further enable electrification readiness and success, MCE identifies self-funding and  
10 external funding stacking opportunities for projects that provide NEBs such as electrical circuit  
11 repair, light construction, and mold remediation.<sup>89</sup> These investments are especially important  
12 within residential equity programs, where such conditions often prevent participation in  
13 conventional upgrade offerings.

14 *c. Range of Upgrades Allows Projects to Proceed*

15 Each MCE Equity segment program provides customers with upgrade options tailored to  
16 the property and their unique needs. For multifamily properties, MFES-E options include small-  
17 space measures ideal for in-unit projects. Single family homes are provided with items not  
18 typically required for multi-family properties in the HES-E program (e.g., insulation and air  
19 sealing). The SBEA offers measures selected for commercial utility, like vending machine controls  
20 and advanced lighting systems.

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<sup>88</sup> Fadali, Lyla, Michael Waite, and Paul Mooney, ACEEE, *The Value of Decarbonizing Equitable, Efficient Building Electrification*, 2024, available at: [www.aceee.org/researchreport/b2405](http://www.aceee.org/researchreport/b2405), pp. 3-10.

<sup>89</sup> For example, TCC funds can be used for purposes of electrical readiness like mold/pest remediation, electrical repair, measure drainage, electrification-related home repair (drywall repair, platform construction, etc.). Richmond Rising, *Learn About the Projects*, available at: <https://richmondrisingca.org/projects/> (Resilient Homes and Landscapes).

1                   **7.2    ESJ Action Plan Goal 5: Enhance outreach and public participation**  
2                   **opportunities for ESJ communities to meaningfully participate in the**  
3                   **CPUC’s decision-making process and benefit from CPUC programs**

4                   Community-based organizations (“CBOs”) can play a vital role in supporting ESJ  
5 customers’ and businesses’ participation in EE programs and program related decisions.<sup>90</sup> MCE  
6 regularly partners with trusted CBOs in its service area to share programmatic offerings, channel  
7 energy education, and seek community feedback on program design and implementation.<sup>91</sup> MCE’s  
8 administration experience has found that its Equity customers benefit from meeting those  
9 customers where they are—engaging customers at a neighborhood or multi-family property level.  
10 MCE uses email, social media, public and community-based events, and canvassing, to introduce  
11 predominantly moderate- and low-income customers to programs and program offerings.  
12 Interested customers receive no-cost assessments and participation incentives.

13                   As discussed in **Chapter 8: Stakeholder Engagement**, MCE regularly conducts a variety  
14 of ongoing stakeholder outreach activities to continuously seek feedback from the customers and  
15 communities it serves. During program years 2024-2027 of its EE portfolio, MCE conducted 20  
16 interviews with local contractors, completed 119 surveys of residential customers on electrification  
17 barriers and equitable electrification, and distributed 223 surveys to Home Energy Savings  
18 program participants following their receipt of direct install measures. Additionally, MCE  
19 surveyed 81 small businesses on their EE needs and conducted nine interviews with local  
20 permitting authorities on permitting barriers to decarbonization and direct installs. MCE also  
21 maintains the MCE Community Power Coalition—a network of approximately 160 social, racial,

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<sup>90</sup> BEEP Coalition, Building Energy, Equity & Power (BEEP) Coalition: Findings from Statewide Listening Sessions Presentation to the AB 32 Environmental Justice Advisory Committee (April 2022), available at: [https://ww2.arb.ca.gov/sites/default/files/2022-04/BEEP%20Slides\\_4.26.22.pdf](https://ww2.arb.ca.gov/sites/default/files/2022-04/BEEP%20Slides_4.26.22.pdf) at p. 5 (“Equitable Process + Meaningful Engagement.”).

<sup>91</sup> See MCE discussion of EE CBO partnerships and community engagement activities in **Chapter 8: Stakeholder Engagement**.

1 and environmental justice organizations that do feet-on-the-street work to address inequities in our  
2 local communities—and invited Coalition members to a virtual discussion on MCE’s draft  
3 Application. Overall, in the development of this Application, MCE conducted 12 stakeholder  
4 activities and engaged over 30 organizational stakeholder organizations for direct feedback.  
5 Feedback was welcomed through roundtable discussions, individual conversations, existing  
6 meetings, over email, and via a written survey. MCE’s partnership and engagement with coalition  
7 members is discussed in detail in **Chapter 8: Stakeholder Engagement**.

8 **7.3 ESJ Action Plan Goal #7: Promote economic and workforce**  
9 **development opportunities in ESJ communities**

10 As discussed above, MCE offers the GWPP, serving contractors, job seekers, and  
11 decarbonization policy goals. MCE designed the GWPP to offer meaningful workforce  
12 development opportunities for contractors and job seekers in ESJ communities.<sup>92</sup> By participating  
13 in the GWP program, contractors gain the expertise and technical capacity to implement EE and  
14 electrification projects that advance ESJ Action Plan goals and benefit their communities. This  
15 knowledge benefits both their engagement in MCE programs and their broader business practices  
16 serving hard-to-reach, disadvantaged, and low-income customers with EE and electrification  
17 measures across MCE’s service area.

18 Through the GWPP, participating contractors gain access to a pipeline of vetted, job-ready  
19 candidates. On-the-job training covers both direct install measures—such as insulation, smart  
20 thermostats, lighting, and exhaust fans—and advanced electrification technologies like heat pump  
21 HVAC, water heating, and air and duct sealing. Community-based partners further strengthen  
22 these efforts by supporting outreach, program design, and delivery, boosting both local economies

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<sup>92</sup> MCE discusses its focus on high-road employment specifically *infra* in **Chapter 3: Portfolio Strategies** and in **Chapter 6: Segmentation and Sector Strategy**.

1 and customer service. Through this program, contractors can be equipped with the skills and  
2 knowledge about EE and electrification that can help them serve ESJ communities by participating  
3 in MCE programs, as well as for their day-to-day business practices serving MCE’s hard-to-reach,  
4 disadvantaged, and low-income customers.

5 **8. If you would like to pursue integrated demand-side management (IDSM)**  
6 **activities within your portfolio, propose your strategy including technologies,**  
7 **target customer engagement tools, etc.**

8 IDSM measures and activities within MCE’s EE portfolio support strengthening its cost-  
9 effectiveness, TSB, grid reliability, bill savings, and customer satisfaction in program  
10 participation. IDSM programs allow the flexibility necessary for MCE’s programs to produce more  
11 valuable energy savings at key times of electric grid stress that simultaneously benefit the  
12 participant customers and the non-participant customers using the electric grid.<sup>93</sup> As California’s  
13 reliability<sup>94</sup> and affordability<sup>95</sup> needs evolve, MCE finds IDSM programs integrated within EE  
14 portfolios to be essential. To advance this integration, MCE proposes a cross-functional program,  
15 the Peak Flex Market program, that delivers load flexibility through IDSM, by optimizing existing  
16 equipment and leveraging new equipment installed with non-CPUC funding. MCE will leverage  
17 the same strategy that optimizes the delivery of TSB by aligning program payments with savings  
18 that deliver the most value (in terms of hourly avoided cost associated with demand reduction).  
19 The most value is found where avoided costs are highest – across the summer’s peak hours – which

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<sup>93</sup> American Council for an Energy-Efficient Economy, ENABLING INDUSTRIAL DEMAND FLEXIBILITY: ALIGNING INDUSTRIAL CONSUMER AND GRID BENEFITS, February 2024, available at: [https://www.aceee.org/sites/default/files/pdfs/enabling\\_industrial\\_demand\\_flexibility-aligning\\_industrial\\_consumer\\_and\\_grid\\_benefits.pdf](https://www.aceee.org/sites/default/files/pdfs/enabling_industrial_demand_flexibility-aligning_industrial_consumer_and_grid_benefits.pdf), p. 5.

<sup>94</sup> Cal. Energy Comm’n, Staff Report: California Energy Resource and Reliability Outlook, 2025, July 2025, available at: <https://www.energy.ca.gov/publications/2025/california-energy-resource-and-reliability-outlook-2025>, p. 108 (“Electricity Demand: California’s electricity demand continues to rise, peaking in summer. The 2024 IEPR Update forecasts a coincident peak of nearly 46,000 MW for the California ISO in summer 2025.”).

<sup>95</sup> Executive Order N-5-24.

1 therefore strengthens the value proposition for demand management as a project type or  
2 intervention that will be rewarded. The financial signal to MCE’s program partners and customers  
3 will be clear – savings that are generated during peak hours can be compensated at considerably  
4 higher rates.

5 MCE’s IDSM program<sup>96</sup> will deploy managed EV charging, battery energy storage,  
6 thermal energy storage, heat pump water heaters, and controllable HVAC systems. MCE will  
7 conduct E&MV to ensure that it builds off the initial program results in 2026-2027, incorporating  
8 programmatic improvements during this next business plan cycle.

9 MCE is also currently developing a Virtual Power Plant (“VPP”)<sup>97</sup> that will enable an array  
10 of devices to be controlled centrally—an asset that is ripe for IDSM program participation. By  
11 2028 MCE anticipates there will be a significant portfolio of managed load which will be able to  
12 participate in MCE’s IDSM program. MCE will provide additional details in its future  
13 implementation plans pursuant to Commission requirements.

14 **9. Increase workforce education and training to better deliver quality EE**  
15 **installations**

16 MCE proposes to continue to administer the GWPP—a workforce education and training  
17 initiative that strengthens the capacity of the electrification workforce. The program equips  
18 contractors and job seekers with the skills needed to install and maintain advanced EE and  
19 electrification technologies, while creating sustainable, high-road employment opportunities  
20 within the growing clean energy sector. MCE’s GWPP provides long-term, relevant support and

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<sup>96</sup> See also MCE AL 74-E.

<sup>97</sup> MCE, MCE’s Virtual Power Plant Pilot in Richmond Energy that’s cleaner for Richmond and more reliable for everyone, available at: <https://mcecleanenergy.org/virtual-power-plant/> (“Currently the City of Richmond is the only eligible community, however, we intend to expand the program throughout our service area, including Contra Costa, Marin, Napa and Solano counties. The Richmond pilot is anticipated to run through 2025. We will be announcing when the project opens up to additional communities.”).

1 education for EE and electrification contractors and their staff, and provides on-ramping  
2 opportunities for job seekers into sustainable and long-term career paths. MCE achieves these  
3 goals through the following methods:

- 4 • Industry outreach to EE industry professionals, workforce development groups, CBOs, and  
5 local governments;
- 6 • Education and in-the-field technical training opportunities for contractors, EE  
7 professionals, and job seekers;
- 8 • Individualized job seeker support towards a career in the energy industry, including  
9 interview and resume coaching, connections to local industry experts, and paid training  
10 opportunities with local contractors; and
- 11 • Identification and removal of barriers faced by contractors seeking to upskill their staff and  
12 grow their business by providing onboarding support, personalized education and training,  
13 and stipends to defray costs of training.

14 **10. Propose your preferred approach to regular reporting of demographic**  
15 **energy efficiency program participation information, as required by D.23-06-**  
16 **055 (COL 38)**

17 Decision 23-06-055 directs all PAs to work with the Reporting Policy Coordination Group  
18 (“Reporting PCG”) to jointly develop a report addressing the demographic reporting questions  
19 listed in Section 7.7 of the Decision.<sup>98</sup> The PCG Demographic Data Working Group completed  
20 this report in August 2025, summarizing areas of consensus, areas of divergence, and feasible  
21 approaches for demographic reporting across all PAs. MCE’s positions below draw from the  
22 Working Group’s findings and reflect our preferred approach for inclusion in MCE’s 2026 EE  
23 Portfolio Application.

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<sup>98</sup> D.23-06-055, at OP 23.

1                   **10.1 Feasible Options for Assessing Demographic Participation**

2           MCE’s preferred approach is to use census-based geographic data, California Alternate  
3 Rates for Energy/Family Electric Rate Assistance (“CARE/FERA”) enrollment, CalEnviroScreen  
4 scores, Medical Baseline flags, customer type, usage, and rate class to assess demographic  
5 participation. This avoids the need to collect sensitive demographic information directly from  
6 participants, reduces administrative burden, and maintains consistency and privacy across the  
7 portfolio. Direct collection of sensitive demographic characteristics is recommended through  
8 voluntary, targeted EM&V studies when necessary.

9                   **10.2 Demographic Data Already Collected**

10           MCE currently collects several demographic data points through existing customer and  
11 program systems, including address, census-derived attributes, income indicators (CARE/FERA),  
12 preferred language (program-dependent), customer type, usage, and rate class. These data support  
13 demographic analysis for most customer-facing EE programs.

14                   **10.3 Demographic Data That Could Be Collected**

15           MCE supports limiting demographic data for routine reporting to non-sensitive, feasible  
16 attributes such as census tract, DAC designation, CARE/FERA status, language, customer sector,  
17 and usage characteristics. Additional elements such as household size or race/ethnicity should only  
18 be collected through EM&V or voluntary surveys where appropriate.

19                   **10.4 Programs and Sectors for Which Data Should Be Collected**

20           MCE recommends applying demographic participation reporting to Residential, Public,  
21 and Commercial programs where customers are identifiable. Upstream, midstream, Workforce  
22 Education & Training, Industrial, Agricultural, and Codes & Standards programs should not be  
23 required to report demographic participation data. Industrial and Agricultural programs consist of

1 business entities rather than households, and demographic constructs such as income, language, or  
2 race/ethnicity do not meaningfully apply. These customers often operate multiple facilities across  
3 numerous census tracts, making census-based demographic analysis unlikely to yield reliable or  
4 meaningful results.

### 5 **10.5 Where Demographic Data Should Be Reported and Stored**

6 Participant-level identifiers and addresses should remain within MCE’s internal systems.  
7 Aggregated demographic metrics that provide appropriate privacy protections should be reported  
8 to the CPUC using existing reporting channels such as annual reports and CEDARS claims.  
9 Mapping of addresses to census tracts should be completed by the PA using established tools to  
10 ensure accuracy and consistency.

### 11 **10.6 Timeline for Beginning Demographic Participation Reporting**

12 MCE recommends beginning demographic reporting no earlier than 6-12 months after  
13 CPUC final requirements are adopted in the 2026 Application decision, allowing sufficient time  
14 for system updates and data validation. Preliminary voluntary reporting may occur during the  
15 transition period.

### 16 **10.7 Frequency of Reporting**

17 MCE recommends annual reporting for demographic participation metrics and quarterly  
18 updates for any claim-level data tied to CEDARS submissions, consistent with Working Group  
19 consensus and existing reporting cadences.

### 20 **10.8 Conclusion**

21 In short, MCE favors a demographic reporting approach that uses geographic data,  
22 respects customer privacy, aligns with current CPUC processes, and limits administrative  
23 burden, while still enabling deeper demographic analysis through EM&V as appropriate.

1           **11. Overcome sector and segment specific challenges (e.g., market support,**  
2           **equity, residential, multifamily, industrial, etc.)**

3           The energy transition presents diverse sector and segment-specific challenges that impact  
4 EE market reach, equity outcomes, and program delivery across California’s residential and non-  
5 residential segments. MCE strives to overcome these barriers by developing strategies rooted in  
6 equity, technical assistance, workforce development, and strong local partnerships. These  
7 strategies are discussed in more detail in **Chapter 6: Segmentation and Sector Strategy**. MCE’s  
8 equity-focused initiatives are designed to ensure that hard-to-reach, disadvantaged, and ESJ  
9 communities fully participate in and benefit from the state’s clean energy transformation,  
10 consistent with CPUC’s EE and decarbonization policy framework.

11                   **11.1 Equity (Intended Beneficiaries: Multifamily and Single-Family Hard-**  
12                   **to-Reach, Disadvantaged, and Underserved Communities)**

13           MCE’s programs deliver comprehensive energy education and technical assistance  
14 throughout the upgrade process for disadvantaged, underserved, and hard-to-reach customer  
15 segments. The MFES-E program engages property owners, managers, and tenants from project  
16 inception to completion, addressing sector barriers such as complex property types, varied retrofit  
17 scopes, and the split-incentive challenge. MCE’s HES-E program provides residents with home-  
18 specific assessments conducted by trained professionals, ensuring that each project scope  
19 maximizes benefit and compliance with efficiency standards. MCE’s SBEA program aims to  
20 deliver meaningful bill savings and EE education to small businesses located in ESJ communities  
21 and businesses that meet the definition of Hard-to-Reach (“HTR”) through free onsite assessments  
22 and energy upgrades including electrification measures.

23           Each program tailors technology selections to property characteristics and unique customer  
24 needs. For example, MFES-E implements in-unit ductless-E systems for efficient heating and cooling  
25 in small spaces; HES-E incorporates air sealing and insulation for housing stock below energy

1 code; and SBEA emphasizes technologies suited for small business applications, such as advanced  
2 lighting and vending controls.

3 *a. Neighborhood and Community-Based Approach*

4 To expand program access, MCE deploys neighborhood-based outreach strategies in hard-  
5 to-reach and disadvantaged areas identified using CalEnviroScreen and census data. Outreach  
6 channels include community events, canvassing, digital engagement, and word-of-mouth referrals.  
7 These localized approaches strengthen community trust, promote program awareness, and foster  
8 long-term participation. Additionally, in the MFES-E program, MCE partners with local  
9 governments, housing providers, and CBOs to leverage established networks that increase  
10 visibility and participation.<sup>99</sup> MCE also partners with CBOs and implementers to routinely receive  
11 customer satisfaction and real-time program participation feedback. MCE uses customer feedback  
12 to guide and update its implementation of programs.<sup>100</sup>

13 *b. Expert-Led Assessment and Comprehensive Evaluation*

14 MCE's programs rely on expert-led, whole-building assessments that evaluate each  
15 property as an integrated energy system. This technical assistance identifies holistic improvement  
16 opportunities that reduce total energy demand and associated GHG emissions. Following  
17 assessment, MCE presents tailored upgrade recommendations that align energy savings potential  
18 and TSB with property characteristics while incorporating cost-effective, high-efficiency  
19 technologies.

20 *c. Commitment to Safety and Non-Combustion Measures*

21 Across its portfolio, safety and environmental health are foundational to MCE's  
22 electrification and EE programs. MCE exclusively promotes non-combustion, electric heat pump

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<sup>99</sup> See further discussion of activities in **Chapter 8: Stakeholder Engagement**.

<sup>100</sup> *Id.*

1 technologies that provide NEBs by eliminating risks associated with gas combustion such as leaks  
2 or indoor air quality hazards. Measures including high R-value attic insulation, air and duct sealing,  
3 and thermal envelope improvements help improve comfort, safety, and indoor air quality. MCE  
4 ensures that Equity program participants understand and can benefit from this commitment.

5 *d. Quality Assurance and Continuous Improvement*

6 MCE maintains strict quality assurance (“QA”) and quality control (“QC”) standards to  
7 ensure program integrity, customer safety, and that the goals of the Equity programs are  
8 accomplished. Key QA/QC activities include:

- 9 • Comprehensive desktop reviews for project accuracy and compliance;
- 10 • Periodic measure list updates to integrate emerging, high-performance technologies;
- 11 • Systematic tracking of GHG emission reductions to align with CPUC climate and savings  
12 goals;
- 13 • Customer feedback evaluation to inform continuous program improvement; and
- 14 • Pre- and post-installation inspections by trained specialists to validate installation quality.

15 **11.2 Market Support (Intended Beneficiaries: Electrification and EE**  
16 **Workforce)**

17 Through its GWPP, MCE addresses workforce capacity barriers by developing accessible,  
18 stackable training opportunities that prepare workers for high-road careers in the electrification  
19 and EE sectors. GWPP establishes and maintains partnerships among contractors, job seekers, and  
20 CBOs to close workforce gaps, increase retention, and promote equitable participation among  
21 disadvantaged workers.

22 Key components include:

- 23 • Recruitment and ongoing engagement with local contractors to build program participation  
24 and training capacity.
- 25 • Onsite and virtual skill development sessions, with stipends for contractor-selected training  
26 modules.
- 27 • Collaboration with CBOs and workforce providers to target disadvantaged workers and  
28 connect them with paid training opportunities tied to MCE program projects.
- 29 • Program design enhancements informed by participant feedback, such as job completion  
30 bonuses and stipends for necessary equipment purchases.

1 Further, MCE also utilizes the Residential Building Decarbonization Job Quality & Labor  
2 Standards Toolkit (“Toolkit”)<sup>101</sup> published by Rising Sun Center for Opportunity and the Bay Area  
3 Residential Decarbonization High Road Training Partnership (“HRTP”) in its administration of  
4 the GWPP. The Residential Building Decarbonization Job Quality and Labor Standards Toolkit is  
5 an implementation resource designed to help program administrators advance High Road labor  
6 standards,<sup>102</sup> in publicly funded or subsidized residential building decarbonization programs in the  
7 Bay Area. MCE thinks it is critical to match vetted job seekers with entry-level positions at  
8 companies that promote living wages, benefits, career enrichment opportunities, as well as safe  
9 environments compliant with controlling local, state, and federal standards.

10 Labor standards include, but are not limited to:

- 11 • Fair Wages and Benefits, including wages, healthcare, and retirement;
- 12 • Regional and Targeted Hire;
- 13 • Compliance and Accountability; and
- 14 • Training, Certification, and Career Advancement.

15 MCE supports high-road employment and ensures that participating GWPP contractors  
16 demonstrate their commitment to these standards. If contractors do not meet minimum high road  
17 standards, MCE encourages contractors to work toward achievement and to re-apply when they  
18 offer sufficient benefits to their employees. MCE’s GWPP also provides Electrification Training  
19 stipends to allow contractors and their staff to advance their technical electrification skills as well  
20 as soft skills. Participants in GWP can apply to receive funds for any training that fits their unique  
21 needs as a contractor. MCE reviews and approves the training request if it is substantive and

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<sup>101</sup> Rising Sun and Bay Area Building Decarbonization HRTP, Job Quality & Labor Standards Toolkit, December 2024 available at: <https://risingsunopp.org/wp-content/uploads/HRTP-Res-Decarb-Job-Quality-and-Labor-Standards-Toolkit-v2.pdf>.

<sup>102</sup> Rising Sun and Bay Area Building Decarbonization HRTP, HRTP Residential Building Decarbonization Summary, available at: <https://risingsunopp.org/wp-content/uploads/Rising-Sun-Bay-Area-Residential-Building-Decarb-HRTP-Summary.pdf>.

1 promotes safety practices, sales, home performance upgrades, electrical, plumbing, or any field  
2 that fits within the electrification industry’s needs.

3           Within the GWPP, MCE partners with local and regional CBOs to lead training for HVAC,  
4 plumbing, electrical, and general contractors with an emphasis on recruiting Minority, Women,  
5 and Disadvantaged Business Enterprises (“MWDBE”). For example, MCE completed a six-  
6 session training series with Emerald Cities called the E-Contractor Academy.<sup>103</sup> A total of 15  
7 MWDBE contractor firms participated in the E-Contractor Academy. Over the six sessions, topics  
8 included: High Road Contracting with UA Local #342, Public Contracting, Diversity  
9 Certifications, Bonding & Insurance, Intro to Marketing and Capability Statements, as well as  
10 other technical training around building decarbonization topics.

11           By prioritizing equitable access and professional development, MCE’s workforce  
12 programs address industry-wide challenges—including limited training access, time constraints on  
13 contractors, and workforce retention difficulties—while enabling scalable program delivery  
14 aligned with California’s EE and decarbonization targets.<sup>104</sup>

### 15           **11.3 Agricultural**

16           The agricultural sector presents a unique challenge for MCE programs, in that the number  
17 of customers in its service is small and the project opportunities for significant energy savings and  
18 TSB are also small. MCE will continue to creatively and effectively market its services to this  
19 customer segment and explore ways to establish a cost-effective delivery of services.

20           MCE’s strategies to meet TSB goals and provide value to its agricultural customers  
21 include: (1) efficiently implement agricultural programs within the overarching MCE Energy

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<sup>103</sup> Emerald Cities Collaborative, E-Contractor Academy, available at <https://emeraldcities.org/our-work/e-contractor-academy/>.

<sup>104</sup> D.25-08-034, Decision Adopting Energy Efficiency Goals for 2026-2037 at OP 1-2.

1 Management Program umbrella; (2) deploy EE projects with measures designed to meet  
2 agricultural customers' unique business needs; (3) identify customers with the greatest savings and  
3 TSB potential using MCE's Data Analytics Platform; (4) market program benefits by engaging  
4 with local agricultural partner organizations (*e.g.*, county farm bureaus); and (5) promote and  
5 encourage customer enrollment in other complementary sustainability, affordability, and energy  
6 initiatives (referred to as the "Any Open Door" strategy).

#### 7 **11.4 Industrial**

8 The Industrial sector has been a growth area for MCE EE programs in recent years.  
9 Although Industrial customers' usage patterns do present a challenge, and establishing  
10 relationships with multinational organizations can also be difficult, its SEM program has proven  
11 successful and will continue to expand its services into this sector.

12 MCE's strategies to ensure that its industrial program delivers value to its industrial  
13 customers, while also achieving or exceeding TSB goals, largely parallel the agricultural sector  
14 strategies. MCE strategies include (1) holistic program design and implementation that cost-  
15 effectively addresses the needs of industrial customers (MCE's Energy Management program) and  
16 mitigates common customer pain points; (2) deploy SEM and custom projects with measures  
17 designed to meet industrial customers' unique business needs; (3) scale incentives based on TSB;  
18 (4) identify customers with the greatest savings and TSB potential using MCE's Data Analytics  
19 Platform; and (5) support streamlined customer enrollment in other complementary programs.  
20 (referred to as the "Any Open Door" strategy). Through its Energy Management program, MCE  
21 will also serve public sector facilities whose operations resemble industrial processes, including  
22 facilities such as water and wastewater treatment plants.

1                   **11.5 Commercial**

2           MCE’s commercial sector presents unique challenges for developing multi-measure or  
3 uniquely non-lighting projects. With the significant impact of participant costs in the cost  
4 effectiveness calculation (TRC), commercial programs will need to consider creative ways to  
5 simultaneously promote customer benefits and portfolio cost-effectiveness.

6           This sector includes programs that reach a diverse customer base, including Equity small  
7 business customers, for whom capital investment in EE equipment is challenging. Many of these  
8 customers are also customers facing well-known incentive misalignment problems. The tenant  
9 businesses pay for energy while landlords manage the properties. MCE’s program tries to address  
10 this through tenant education, building owner education, and by offering direct install measures.

11           MCE uses a variety of strategies to meet or exceed TSB goals in this sector, to provide  
12 value to its commercial customers, and to ensure that commercial Equity customers have equitable  
13 access to EE program funding. Those strategies include: (1) efficiently implement commercial  
14 programs within the overarching MCE Energy Management Program umbrella; (2) deploy SEM  
15 and custom projects with measures designed to meet commercial customers’ unique business  
16 needs; (3) scale incentives based on TSB; (4) identify customers with the greatest savings and TSB  
17 potential using MCE’s Data Analytics Platform; (5) incorporate low global warming potential  
18 equipment installations; (6) assist customers to access and enroll in creative financing  
19 opportunities offered by other entities; and (7) support streamlined customer enrollment in other  
20 complementary programs (referred to as the “Any Open Door” strategy).

1                   **11.6 Residential**

2                   MCE began offering residential EE programs in 2013 and has since grown its residential  
3 EE offerings. During this time, MCE has observed several challenges in this sector which are  
4 outlined below.

5                   Multifamily properties face challenges unique to the relationship between property owners,  
6 managers, and tenants of those properties. Typically, there is the issue of “split incentives”, *i.e.*,  
7 benefits may not be realized by the entity responsible for covering the costs of the EE upgrade.  
8 For example, the property owner or manager may have difficulty supporting an EE project where  
9 upgrades will cost them money and provide a benefit to the tenant in the form of lower bills and  
10 new, efficient appliances. Because of this, it is more common for property managers and/or owners  
11 to take an interest in common area upgrades that could result in energy and cost savings for them  
12 rather than the tenants. Property managers and/or owners also typically have several competing  
13 tasks and obligations related to the properties they oversee, which makes it difficult to focus on  
14 energy-saving matters. On the tenant side, on the other hand, there is little incentive to pay for in-  
15 unit upgrades that stay with and enrich the property owner upon move-out. This challenge applies  
16 to market rate, moderate- and low-income properties alike.

17                   MCE has also experienced challenges specifically related to serving tenants in multifamily  
18 settings. Contractors and program implementers often experience greater difficulty gaining access  
19 to units because of a lack of trust by tenants and sometimes property managers or owners. It is  
20 difficult to get access to in-unit usage data without express consent of tenants, which requires  
21 communication and trust-building by the contractor. This can be time- and effort-intensive, leading  
22 to high program administrative costs. Determining tenant income levels, where necessary to

1 establish which program is appropriate for a given property, presents an additional challenge for  
2 program implementers.

3 Reaching and serving single-family residential customers has its own set of challenges. A  
4 HTR segment of this sector is property owners with incomes that exceed low-income EE and  
5 electrification program income levels (*e.g.*, the State’s Energy Savings Assistance (“ESA”)  
6 program),<sup>105</sup> but who still lack the resources to fund home upgrades. In addition, even if these  
7 customers receive incentives for EE and electrification measures, the cost for ancillary measures  
8 (*e.g.*, electric panel upgrades, support structures, light carpentry, safety testing) often prevents  
9 them from participating in programs. For single-family residential customers, providing cost-  
10 effective and scalable, broad-reaching programs is a challenge. With a four-county footprint, MCE  
11 customers span all demographics, and programs need to be nimble enough in outreach and  
12 offerings to serve all of them.

13 MCE’s goals for the residential sector are two-fold, based on the income level of the target  
14 customers. First, MCE intends to serve low- to moderate-income customers with comprehensive  
15 offerings that save energy and money while providing additional NEBs. Second, MCE plans to  
16 serve market-rate residential customers with programs that meet or exceed TSB thresholds.  
17 Underlying these goals is the need to reach a broad swath of customers, geographically,  
18 demographically, and economically. This requires programs that are easy to launch and manage,  
19 succeed at providing education and sparking interest in EE and electrification, and deliver a high  
20 TSB.

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<sup>105</sup> Energy Savings Assistance (“ESA”) Program provides no-cost weatherization services to consumers who meet the CARE income limits. CARE income guidelines can be found at: <https://www.cpuc.ca.gov/consumer-support/financial-assistance-savings-and-discounts/california-alternate-rates-for-energy>.

1 MCE is proposing to reach these goals through implementing the following programmatic  
2 strategies: (1) identify customers with the greatest savings and TSB potential using MCE’s Data  
3 Analytics Platform; (2) align incentives by using pay-for-performance programs; (3) expand  
4 existing programs to reach moderate-income customers; (4) support streamlined customer  
5 enrollment in other complementary programs (referred to as the “Any Open Door” strategy); and  
6 (5) invest in community engagement. MCE discusses these strategies in **Chapter 6: Segmentation  
7 and Sector Strategy.**

8 **12. Promote responsible management and disposal of removed refrigerant and**  
9 **incorporate low-GWP refrigerants/ultra-low GWP refrigerants**

10 MCE supports and has been committed to incorporating low-global warming potential  
11 (“GWP”) refrigerants into its EE portfolio.<sup>106</sup> MCE still believes that “shifting away from high  
12 [GWP] refrigerants to low-GWP refrigerants through EE programs presents a unique and valuable  
13 opportunity.”<sup>107</sup> Senate Bill 1013 (Lara, 2018) requires the Commission to “consider developing  
14 a strategy for including low-GWP refrigerants in equipment funded by the energy efficiency  
15 programs overseen by the Public Utilities Commission.”<sup>108</sup> Following Senate Bill 1013, Decision  
16 (“D.”) 21-05-031 correspondingly directs PAs to develop “[p]rograms that encourage the use of  
17 lower-GWP refrigerants than current ‘standard practice’ or regulation.”<sup>109</sup> The Decision also  
18 “encourages the program administrators to seek out all cost-effective opportunities to  
19 incorporate low-GWP measures in the energy efficiency portfolios.”<sup>110</sup> MCE plans to promote the  
20 installation of low and ultra-low GWP refrigerants throughout its portfolio.

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<sup>106</sup> MCE 2024 Application, Exhibit 2, p. 1-16 (incorporating low-GWP measures into its efficiency market programs).

<sup>107</sup> *Id.*

<sup>108</sup> Senate Bill 1013 (Lara, 2018), sec. 2.

<sup>109</sup> D.21-05-031, p. 53.

<sup>110</sup> *Id.*, p. 60.

1 MCE will align its programs with other agencies and future regulations. This includes  
2 collaboration with the California Air Resources Board’s (“CARB”) Fluorinated Gas Reduction  
3 Incentive Program, BayREN’s Refrigeration Replacement Program, and the statewide Technology  
4 and Equipment for Clean Heating program. MCE will also seek to collaborate with other utilities,  
5 community choice aggregators, and other regional agencies on low and ultra-low GWP programs.

6 MCE is also working to close gaps it has identified. In this Application, MCE proposes  
7 launching a new program (the Low-GWP Refrigerant Accelerator program) which addresses a gap  
8 in service of small and medium-sized businesses which operate refrigeration systems that will not  
9 be regulated by CARB regulations. This program will leverage a performance-based program  
10 framework to pay incentives that align with the TSB of refrigerant conversion projects and the  
11 associated EE benefits of a whole building approach, leveraging population-NMEC metrics and  
12 verification. In the deployment of this program, MCE will require installers to provide record of  
13 the proper recapture and disposal of the existing and/or newly installed refrigerant, to ensure safe  
14 handling. The program will evaluate the field data against the RACC and provide real-world  
15 examples of refrigerant management.

16 Lastly, MCE will work with industry groups, such as the North American Sustainable  
17 Refrigeration Council (“NASRC”), to educate contractors on the proper handling of refrigerants.  
18 NASRC has a track record of providing refrigeration workshops in Southern California Edison’s  
19 service area and MCE will explore similar offerings in its service area. In addition, MCE’s GWPP  
20 can be a potential pathway for educational opportunities for contractors in its service area.

1           **13. Spur innovation to advance a technology, marketing strategy, or delivery**  
2           **approach in a manner different from previous efforts in your EE portfolios**

3                   **13.1 Utilize Customer Data Analytics**

4           The MCE Data and Analytics team has created a customer data analytics platform, rooted  
5 in CALTRACK methods, which enables the EE programs team to identify customers with the  
6 greatest potential to benefit from specific programs.

7           The platform references customer Advanced Metering Infrastructure (“AMI”) data and  
8 creates a load profile for each customer. The team is then able to use several demographic and  
9 usage filters, along with analytic parameters to create reports. The platform can identify customers  
10 with specific end-use patterns, flagging customers who have high cooling, heating, lighting, and  
11 other load types.

12           This tool will be integral in the refinement of program design, the identification of  
13 appropriate ME&O activities, and in maximizing TSB and ongoing M&V of customers. MCE will  
14 utilize this information to better market programs directly to customers and assist its implementor  
15 partners. This has been an MCE funded effort to date that will provide a direct benefit to the CPUC  
16 program portfolio.

17                   **13.2 Increase program participation among market rate residential**  
18                   **customers.**

19           MCE proposes multiple activities to promote greater program participation from market  
20 rate residential customers in its EE portfolio. MCE is redesigning its Residential Flex Market  
21 Program to offer upfront incentives combined with performance-based incentives. MCE received  
22 feedback from the contractor community that purely performance-based programs were too risky  
23 for a smaller residential contractor to take on. MCE is therefore working to identify the appropriate  
24 mix of incentives to best balance participation and performance.

1 MCE is also creating new information resources. MCE provides a contractor directory on  
2 its website that includes information about what programs customers are prequalified to participate  
3 in, what type of work they specialize in, and union membership.

4 Additionally, MCE is expanding its market rate offerings. MCE is creating a Resource  
5 segment version of its successful Home Energy Savings Equity program (“HES-E”), which is  
6 focused on serving low-to moderate income customers. This new program, HES-R, will use the  
7 same successful program delivery and marketing channels as HES-E, but will offer lower rebates  
8 and focus on more cost-effective measures for market rate residential customers.

9 **14. Incorporate community-based program design in relevant existing and**  
10 **planned EE programs that promote meaningful community involvement,**  
11 **advances equity, and ESJ Action Plan goals (D.23-06-055, OP 31)**

12 MCE is committed to meaningfully engaging with stakeholders, especially local CBOs  
13 during the design, implementation, and evaluation of its EE portfolio programs.<sup>111</sup> As a PA since  
14 2013, MCE finds that ongoing stakeholder engagement and opportunities for customers and  
15 communities are essential ingredients for the success of its EE programs.<sup>112</sup> MCE regularly  
16 conducts a variety of ongoing stakeholder outreach activities to continuously seek feedback from  
17 the customers and communities it serves. Additionally, MCE conducted significant stakeholder  
18 outreach for the preparation and submission of this EE Business Plan Application.<sup>113</sup>

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<sup>111</sup> See The Greenlining Institute, Equitable Building Electrification Framework (2019), available at [https://greenlining.org/wp-content/uploads/2019/10/Greenlining\\_EquitableElectrification\\_Report\\_2019\\_WEB.pdf](https://greenlining.org/wp-content/uploads/2019/10/Greenlining_EquitableElectrification_Report_2019_WEB.pdf). (“Rich community input and engagement strengthen the overall program design quality with stronger cultural competence, ensure local buy-in and investment, and deliver tangible local benefits rooted in the lived experiences of everyday people. Partner with community-based organizations to develop a decision-making process that ensures that decisions are based on community needs and priorities.”)

<sup>112</sup> BEEP Coalition, Building Energy, Equity & Power (BEEP) Coalition: Findings from Statewide Listening Sessions Presentation to the AB 32 Environmental Justice Advisory Committee (April 2022), available at: [https://ww2.arb.ca.gov/sites/default/files/2022-04/BEEP%20Slides\\_4.26.22.pdf](https://ww2.arb.ca.gov/sites/default/files/2022-04/BEEP%20Slides_4.26.22.pdf) at p. 5 (“Equitable Process + Meaningful Engagement.”).

<sup>113</sup> See discussion in **Chapter 8: Stakeholder Engagement**.

1 MCE incorporates community-based program design throughout its EE portfolio to ensure  
2 meaningful community involvement, advance equity, and align with the goals of the ESJ Action  
3 Plan. Across programs, MCE prioritizes centering community voices and integrating feedback into  
4 program design, implementation, and continuous improvement. For example, all participants in  
5 the HES-E program receive follow-up calls and feedback surveys to gather direct input on  
6 customer experience, barriers, and opportunities for improvement. Insights from these  
7 conversations are routinely used to refine both outreach strategies and program delivery. MCE  
8 also partners with CBOs to expand access and trust, compensating CBOs for their role in marketing  
9 and educating customers about available programs—an approach that ensures culturally  
10 responsive engagement and supports local capacity. Additionally, MCE presents regularly to its  
11 Community Power Coalition<sup>114</sup> to share program updates, gather input from community leaders,  
12 and strengthen alignment between community priorities and program offerings. Together, these  
13 practices embed community-centered design principles across MCE’s portfolio, ensuring  
14 programs are responsive, equitable, and grounded in the lived experiences of the communities we  
15 serve.

16 As is explained in more detail in **Chapter 8: Stakeholder Engagement**, MCE conducted  
17 the following ongoing community-based design stakeholder outreach activities related to its EE  
18 portfolio during PYs 2024-2027:

- 19 • **Local Contractors:** MCE conducted 20 interviews with local contractors on electrification  
20 and permitting barriers.

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<sup>114</sup> MCE’s Community Power Coalition is a network of 160 social, racial, and environmental justice organizations that do feet-on-the-street work to address inequities in its local communities. MCE partners with coalition members to: address climate change and eliminate the use of fossil fuels in its communities; create learning opportunities about climate justice for community-based organizations; expand access to renewable energy services and customer programs; and encourage participation in the design and execution of MCE’s energy equity programs and policies. See Appendix 1 in **Chapter 8: Stakeholder Engagement** for full list of members and participants.

- 1 • **Residential Customers:** MCE completed 119 surveys of residential customers on  
2 electrification barriers and equitable electrification.
  - 3 • **Low-and Moderate-Income Program Participants:** MCE distributed 223 surveys to  
4 Home Energy Savings-Equity program participants following their receipt of direct install  
5 measures. MCE staff called direct install participants directly. Seventy-eight completed  
6 program feedback surveys. Of respondents, 96 percent of participants were 100 percent  
7 satisfied.
  - 8 • **Small Business:** MCE surveyed 81 small businesses on EE needs and participation barriers  
9 when developing its Small Business Energy Advantage (“SBEA”). MCE surveyed small  
10 businesses via online workshops and online and telephone surveys.
  - 11 • **Local Permitting Authorities:** MCE conducted nine interviews with local permitting  
12 authorities on various topics including permitting barriers to decarbonization and direct  
13 installs.
  - 14 • **Contractor Power Breakfast:** MCE hosted a contractor power breakfast in August 2025  
15 seeking feedback from local contractors and labor unions on a variety of EE program,  
16 decarbonization workforce issues, and program design/implementation strategies. Twenty-  
17 six representatives of local contractors and labor unions participated.
  - 18 • **Municipal Engagement:** MCE staff regularly hold 1:1 sessions with MCE’s 38 member  
19 communities to ensure the agency supports local priorities. This flexible approach allows  
20 MCE to provide deeper and more attuned assistance to highly active communities, while  
21 also facilitating multi-city collaborative efforts to advance shared regional goals. Through  
22 these interactions, MCE Community Engagement staff regularly share program updates,  
23 and solicit feedback from municipal staff on ways to support community members.
- 24 MCE will continue ongoing stakeholder engagement activities with its Community Power  
25 Coalition, CBO partnerships, Municipal engagement meetings, contractors, and program specific  
26 work in PY 2028-2031, and will update its activities and methods of outreach as needed pursuant  
27 to community feedback.

1 **Chapter 4: Forecast Methodology and Zero-Based Budgeting**

2 Marin Clean Energy (“MCE”) proposes a reasonable Application budget request optimized  
3 to balance annual spending while achieving a cost-effective and comprehensive portfolio  
4 consistent with energy efficiency (“EE”) goals. This section provides an overview of MCE’s  
5 annual spending budgets and supporting analysis for development of the zero-based budget.

6 The following framework guided MCEs annual spending budgets for EE programs: (1)  
7 regulatory and statutory requirements and legislative guidance; (2) MCE’s mission and vision; (3)  
8 analysis of program performance during current cycle; (4) assessment of emerging opportunities  
9 and (5) analysis of other cost drivers, including staffing, implementation contracts and incentive  
10 costs. The sections below describe each, in turn.

11 **1. Analysis of Program Performance**

12 First and foremost, MCE’s portfolio planning relies on its experience providing successful  
13 EE programming to its customers since first launching programs in 2012 on an Elect-to-Administer  
14 basis<sup>115</sup> and operating them on an Apply-to-Administer basis since 2013.<sup>116</sup> MCE’s proposed EE  
15 programming for PYs 2028-2031 builds upon MCEs existing portfolio to achieve evolving goals  
16 and redress existing gaps.

17 MCE evaluated its existing programs using multiple performance factors to identify which  
18 program offerings to expand, maintain, modify, or scale back. These findings include:

- 19 ○ Under performance of the Normalized Metered Energy Consumption (“NMEC”)  
20 programs relative to Total System Benefit (“TSB”) forecasts.
- 21 ○ Under performance of Multifamily (“MF”) Strategic Energy Management (“SEM”)  
22 programs relative to Total Resource Cost (“TRC”) goals.

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<sup>115</sup> Resolution E-4518, August 2012, Ordering Paragraph 1 (“Marin Energy Authority’s 2012 energy efficiency program administration plan, as submitted on June 22, 2012, is certified pursuant to Public Utilities Code Section 381.1(f).”) (MCE was formerly Marin Energy Authority).

<sup>116</sup> Decision (“D.”) 12-11-015, *Decision Approving 2013-2014 Energy Efficiency Programs and Budgets* at 50, Ordering Paragraph (“OP”) 1 at 130 (November 15, 2012) (approving MCE EE portfolio).

- 1 ○ High participation in the Home Energy Savings (“HES-E”) and Multifamily Energy  
2 Savings (“MFES-E”) Equity segment programs, and the opportunity to build on the  
3 successful elements of those programs to offer additional cost-effective, market rate  
4 programs.

5 **2. Assessment of Emerging Opportunities**

6 MCE is constantly looking for underserved communities or gaps in its existing programs  
7 to identify emerging opportunities. MCE ultimately determined that two emerging opportunities  
8 are worthwhile additions to MCE’s EE portfolio given the current state of programs and energy  
9 use in its service territory.

10 First, MCE identified an opportunity to support the deployment of low global warming  
11 potential (“GWP”) refrigerants in small businesses within its territory. While there are regulations  
12 relating to the use of low GWP refrigerants in larger businesses, small businesses do not face the  
13 same regulatory requirements and do not have sufficient incentives to switch to low GWP  
14 refrigerants. MCE developed and now proposes a budget that is designed to create a program to  
15 support the deployment of low-GWP refrigerants in this market segment. This budget was based  
16 on a market analysis of MCE’s service area and further advances the Commission’s progress on  
17 Senate Bill 1013 (Lara, 2018).<sup>117</sup>

18 Second, MCE is looking to incorporate newly approved integrated demand-side  
19 management (“IDSM”) funding into its overall program budgeting.<sup>118</sup> MCE’s IDSM and EE work  
20 in its service territory will be coordinated together. MCE reevaluated its budget given the new  
21 opportunity it has to design and implement IDSM programs in its territory pursuant to Resolution  
22 E-5387, which will enable daily load shifting and load reduction during peak hours and coexist  
23 with EE efforts. MCE’s proposed IDSM program, the Peak Flex Market, will also leverage similar

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<sup>117</sup> Senate Bill 1013 (Lara, 2018), sec. 2.

<sup>118</sup> Resolution E-5387 (Sept. 18, 2025) (approving MCE AL 74-E).

1 participation and measurement and verification frameworks as MCE’s existing Commercial and  
2 Residential Efficiency Market programs.

3 **3. Analysis of Cost Drivers**

4 **3.1 Staffing and Operational Costs**

5 MCE generally recovers staffing costs for active EE programs from its approved EE  
6 budget. Some cost categories are supplemented by MCE’s retail generation service revenue. For  
7 example, some components of MCE’s information technology, legal, and public affairs  
8 departments are funded from its General Operating Account, so those costs are not included in the  
9 EE budget forecast.

10 Certain cross-cutting activities—such as compliance, regulatory support, reporting, and  
11 data tracking—provide benefits to all programs. MCE determined support levels for these  
12 activities based on current staffing, and scaled accordingly to account for the program changes  
13 proposed in this application, which include the new programs for Integrated Demand-Side  
14 Management and low-GWP refrigerants, which will require additional staff resources. Cross-  
15 cutting expenses were then allocated evenly across all programs.

16 MCE analyzed the staffing needed for each program’s unique delivery strategy; contracting  
17 structure; evaluation, measurement, and verification (“EM&V”); and other administrative and  
18 implementation needs. Full-time employee percentages were assigned to various positions.  
19 Staffing budgets consider salary and benefits for each employee and increase annually based on  
20 MCE’s compensation approach. Salary expenses charged to the EE portfolio reflect staff time-  
21 tracking records.

22 MCE staff perform both implementation and administrative activities, and staffing costs  
23 are allocated between these categories based on estimated hours spent.

1                   **3.2     Implementation Costs**

2                   Per D.21-05-031, all costs associated with implementation contracts must be assigned to  
3 program implementation. Forecasting methods vary by program and by contract. MCE categorizes  
4 programs into four implementation structure types: Flex Market programs, Equity programs, non-  
5 metered pay-for-performance (“P4P”) programs, and Market Support programs.

6                   **Table 4-1: Programs by Implementation Structure Type**

<b>Implementation Type</b>	<b>Programs</b>
Flex Market Programs	Commercial and Residential Flex Market, Peak Flex Market, Low-GWP Refrigerant Accelerator Program
Equity Programs	HES-E, MFES-E, SBEA
Non-metered P4P Programs	SEM, HES-R, MFES-R
Market Support Programs	GWP

7  
8                   *a.       Flex Market Program Implementation Costs*

9                   Budgets and associated implementation contract values for Efficiency Market programs  
10 are based on the current assessment of market opportunity and the performance of these programs  
11 in the current program cycle. The primary implementation contract covers data analytics (*e.g.*,  
12 NMEC assessments), aggregator engagement, and Marketplace platform operations. MCE does  
13 not contract directly with participating aggregators. Cost of service is grounded in performance-  
14 based principles, with payments calculated as a percentage of forecasted benefits. Thus, budget  
15 needs scale with TSB delivery, and the program bears minimal cost not tied to outcomes.

16                  Under these programs, the aggregator’s share of performance payments passed on to  
17 customers is counted as an incentive, while the share retained by aggregators is classified as an  
18 implementation cost. Total payment to aggregators is determined by project TSB and TRC. The  
19 primary implementation contract cost is combination of fixed fees and performance payments.  
20 Customer costs reflect average forecasts from aggregators. MCE expects aggregators to pass on

1 about 20 percent of their performance payment to customers as rebates.

2 *b. Equity Program Implementation Costs*

3 Equity program implementation contracts account for the additional support services  
4 needed by Equity customers. Costs are not exclusively P4P. Implementers provide hands-on  
5 technical assistance, manage installation teams, and support comprehensive project delivery.  
6 Contract costs are a combination of performance payments, fixed monthly costs and  
7 reimbursement for direct install labor and materials.

8 *c. Non-Metered Pay-for-Performance Program Implementation Costs*

9 Programs under this category include custom and deemed rebate programs, as well as  
10 Strategic Energy Management (“SEM”). Implementation contracts are paid on a performance basis  
11 (\$/unit savings), aligning expenditures with delivered results. In SEM, payments are based on  
12 forecasted savings and are trued up after final model approval.

13 Annual implementation budgets are based on forecasted savings potential multiplied by  
14 performance rates. Savings forecasts for SEM reflect recent program results and data-driven  
15 identification of optimal participants. Recruitment focuses on customers flagged as strong  
16 candidates based on consumption profiles.

17 *d. Market Support Program Implementation Costs*

18 MCE operates a single Market Support program: Green Workforce Pathways Program  
19 (“GWPP”). The budget for this program is based on time-and-materials rates for a defined scope  
20 of work, with rates established through a competitive solicitation process.

21 **4. Program Modifications from 2024-2027 portfolio cycle**

22 MCE agrees with the Commission’s, the Governor’s, the State Legislature’s, community-  
23 based organizations’, and ratepayers’ focus on ensuring PAs maximize the benefits of any

1 ratepayer funds dedicated to their programming.<sup>119</sup> MCE considers it a priority to remain a good  
2 steward of ratepayer funds, and that is especially true for the upcoming portfolio when energy  
3 burdens are expected to remain high.

4 In developing its budget, MCE closely reviewed its program forecasts and pipelines for EE  
5 opportunities in its unique service territory and identified the optimal mix and size of program  
6 offerings that can meet the EE program requirements. As a result of this analysis, MCE is  
7 proposing a decrease in its overall EE budget for the years 2028-2031 from \$80.1M<sup>120</sup> to \$65.3M.  
8 This is a decrease of \$14.8M, reflecting a 18.5% decrease.<sup>121</sup>

9 MCE's proposed budget reflects the number of customers and projects it believes can  
10 reasonably be served and accomplished in its territory through current and proposed program  
11 offerings. After analyzing which programs were meeting their goals and which were falling short  
12 in the current program period, MCE proposed to increase the percentage of its budget going  
13 towards its Equity and Market Support programs. This new percentage is more closely aligned  
14 with the percentage of equity customers in its service area. MCE does not believe that this will  
15 have a negative impact on its portfolio's performance, as MCE's current Equity program offerings  
16 have been a strong performer on metrics while generally remaining fully enrolled each year.

17 By pursuing these new opportunities and expanding currently successful programs, MCE  
18 has developed the proposed 2028-2031 budget that is best tailored to accomplish the Commission's

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<sup>119</sup> See, e.g., Executive Department State of California, EXECUTIVE ORDER N-5-24, October 30<sup>th</sup>, 2024, available at: <https://www.gov.ca.gov/wp-content/uploads/2024/10/energy-EO-10-30-24.pdf>, pp. 1-2; Assembly Bill 3264 (Petrie-Norris), sections 1(b), 3(b); Sierra Club, California's Affordability Crisis: Utilities Asking for More Money for Shareholders, November 2025, available at: <https://www.sierraclub.org/articles/2025/11/california-s-affordability-crisis-utilities-asking-more-money-shareholders>.

<sup>120</sup> D.23-06-055 at 94. This calculation uses nominal dollars.

<sup>121</sup> Comparing the full \$158.2M 8-year budget approved in D.23-06-055 at pp. 93-94 with the \$133M 8-year budget request in this application reflects a 16% nominal dollar reduction.

1 policy goals in MCE’s service territory while minimizing the need for scarce ratepayer funds.

2 **4.1 Closed Programs from the 2024-2027 Cycle**

3 MCE did not close any programs following D.23-06-055 approving its PY 2024-2027 EE  
4 portfolio.<sup>122</sup> While MCE is not closing its Energy Management program, MCE has determined  
5 that it will not continue to offer certain underperforming SEM subprograms (the Multi-family SEM  
6 and Agricultural SEM subprograms) at the end of its 2024-2027 cycle.<sup>123</sup>

7 **4.2 Launched Programs for the 2024-2027 Cycle**

8 **Table 4-2: New Programs for the 2024-2027 Cycle**

<b>New Programs in 2024-2027 4-Year Application Cycle</b>			
<b>Name of New Program/Placeholder Program</b>	<b>Segment</b>	<b>Sector</b>	<b>High Level Program Description/Purpose</b>
Small Business Energy Advantage – MCE AL 77-E (effective date July 24, 2024).	Equity	Commercial	Free, on-site energy assessments, tailored efficiency plans, and financial incentives to help local small businesses install energy-saving upgrades.
Integrated Demand-Side Management/Peak Flex Market Program – MCE AL 74-E (effective date Sept. 18, 2025).	Resource Acquisition	Commercial and Residential	Incentives for daily load shifting and load reduction during peak hours.
Multi-Family Energy Savings-Resource Program – MCE AL 91-E (effective date of Jan. 20, 2026).	Resource Acquisition	Residential	Free energy assessments, technical support, and rebates of up to \$6,000 per unit for energy-efficient, electric, and water-saving upgrades to reduce utility costs and improve building efficiency.

<sup>122</sup> MCE closed the Home Energy Rebates program following the submission of its MCE 2024 Application prior to D.23-06-055. MCE AL 64-E (effective date Sept. 30, 2022).

<sup>123</sup> Despite significant outreach and effort to identify and model savings, MCE has concluded that there was insufficient demand for these programs in its territory, a low potential for energy savings, and a difficulty of modeling savings. These subprograms were described in MCE’s 2022 Application in the CEDARS filings MCE01c: Multifamily Strategic Energy Management, and MCE11c: Agricultural Strategic Energy Management.

1                    **4.3      Launched Programs for the 2028-2031 Cycle**

2                    **Table 4-3: New Programs in 2028-2031 4-Year Application Cycle**

<b>New Programs in 2028-2031 4-Year Application Cycle</b>			
<b>Name of New Program/Placeholder Program</b>	<b>Segment</b>	<b>Sector</b>	<b>High Level Program Description/Purpose</b>
Home Energy Savings-Resource Program	Resource Acquisition	Residential	The Home Energy Savings-Resource Program focuses on implementing a direct installation strategy designed to help customers adopt electrification space and water heating systems. The single-family program will provide a fixed rebate per electrification measure and provide the homeowner with an assessment and installation contractor. Rebates will be based on market research and will be commensurate with other successful rebate programs.
Low GWP Refrigerant Accelerator	Resource Acquisition	Commercial	The MCE Low-Global Warming Potential (GWP) Refrigerant Acceleration Program focuses on helping small grocery and restaurant businesses retrofit old refrigeration systems to run on low Global Warming Potential (“GWP”) refrigerants. Low GWP refrigerant measures identified by the Program include condensing unit replacements, monoblock walk-in cooler units, and standalone display cases. The Program also provides incentives for additional EE measures typical to commercial spaces such as LED lighting, refrigeration, and HVAC, which are quantified through metered energy savings. The Program combines both low-GWP refrigerant and EE incentives to reduce typical installation costs by between 25 and 50 percent.

1 **Chapter 5: Portfolio Management**

2 **1. Overview for 4-year plan and 8-year plan: Key metrics and outcomes**

3 Marin Clean Energy (“MCE”) has developed a logic model that serves as a roadmap  
4 showing how MCE’s program portfolio turns resources into measurable outcomes over time.

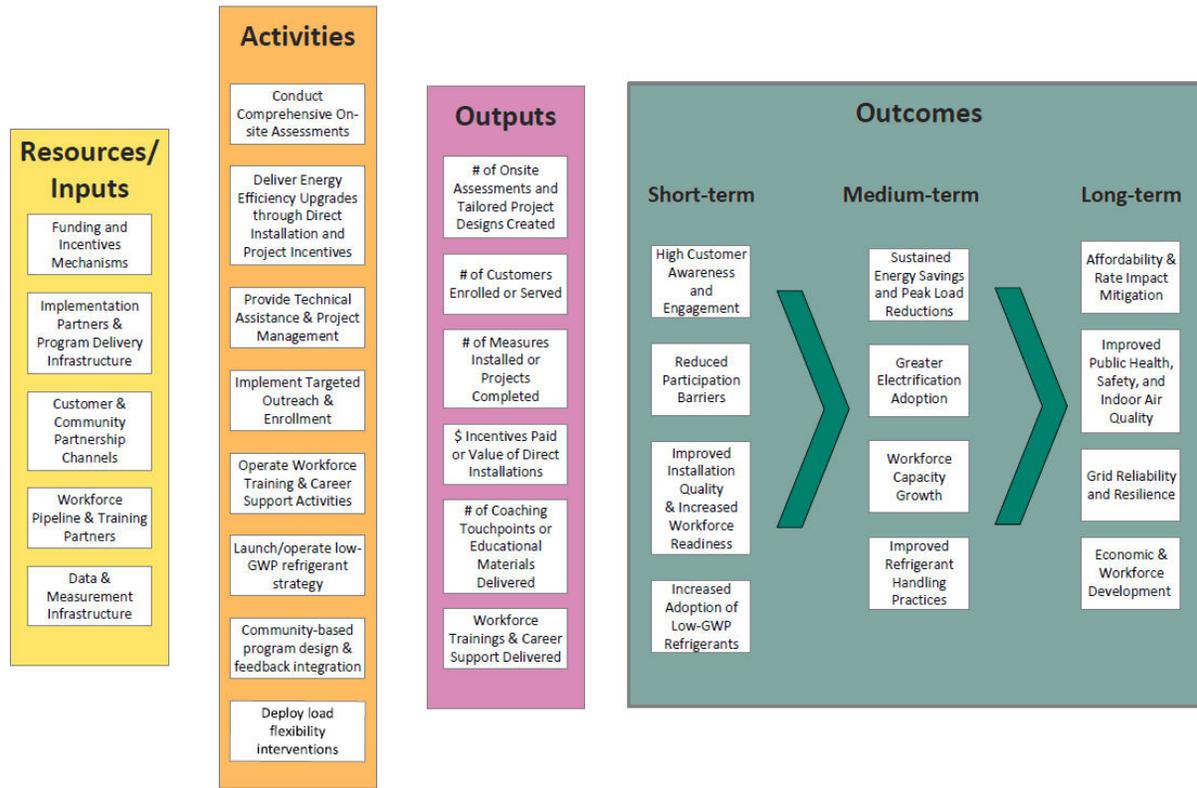
5 The logic model is organized in six linked columns:

- 6 • Resources/Inputs – What basic elements are required to run programs.
- 7 • Activities – What the portfolio does with those resources.
- 8 • Outputs – What we deliver through those activities.
- 9 • Outcomes (Short-term → Medium-term → Long-term) – The changes we expect as a result  
10 of these outputs, sequenced over time:
  - 11 ○ Short-term outcomes reflect early movement;
  - 12 ○ Medium-term outcomes capture portfolio performance shifts; and
  - 13 ○ Long-term outcomes represent the portfolio’s ultimate impacts.

14 Read left-to-right, the model describes the portfolio’s program theory: targeted investments  
15 and delivery activities produce concrete outputs that lead to measurable customer and market  
16 changes, which ultimately drive system benefits and community impacts. This structure also  
17 clarifies what we will track each year (outputs and short-term outcomes), what we expect to  
18 strengthen over the business plan cycle (medium-term outcomes), and how these changes support  
19 MCE’s longer-run strategic goals (long-term outcomes).

1

Figure 5-1: Logic Model



2

3 The logic model shows a clear connection between near-term delivery (assessments,  
 4 installations, outreach, coaching, workforce supports) to the portfolio outcomes that matter most  
 5 over the next four years (near-to-mid outcomes and measurable performance) and the next eight  
 6 years (durable, system-level impacts).

7 Short/Medium-Term Goal Alignment (four years)

8 • **Total System Benefit (“TSB”) achievement and stronger cost-effectiveness:** The  
 9 medium-term outcomes center on sustained energy savings and peak load reductions and  
 10 greater electrification adoption—the two main drivers for growing system benefits over a  
 11 four-year horizon. These outcomes are supported by activities like comprehensive  
 12 assessments, direct installs, project incentives, technical assistance, and load flexibility  
 13 interventions, which increase participation and throughput while improving measure  
 14 performance.

15 • **Advancing energy efficiency (“EE”) in equity communities:** The short-term outcomes  
 16 explicitly include reduced participation barriers and high customer awareness/engagement.  
 17 Those are the prerequisites for achieving four-year equity goals such as higher enrollments  
 18 in environmental and social justice (“ESJ”) communities, higher completion rates, and

1 improved customer experiences. The inputs (community partnership channels, workforce  
2 partners, delivery infrastructure) and activities (targeted outreach and enrollment;  
3 community-based feedback integration) are designed to address known barriers—trust,  
4 time, complexity, and upfront cost.

- 5 • **Improved delivery quality and workforce readiness to support electrification goals:**  
6 The short-term outcomes also include improved installation quality and increased  
7 workforce readiness, which are critical to hitting four-year goals for more electrification  
8 installs, fewer rework/quality assurance (“QA”) issues, and faster implementation. By  
9 investing in workforce training and career support as a core activity, the plan strengthens  
10 the delivery system that underpins MCE’s electrification goals.

#### 11 Longterm Goal Alignment (eight years)

- 12 • **Affordability and rate impact mitigation:** Over eight years, the cumulative effect of  
13 sustained savings and peak demand reduction supports the long-term outcome of  
14 affordability and rate impact mitigation—through both customer bill impacts and system-  
15 level avoided costs.
- 16 • **Grid reliability and resilience:** Load flexibility interventions lead to a medium-term  
17 outcome of sustained peak reduction and a long-term outcome of grid reliability and  
18 resilience. That reflects an eight-year trajectory where flexible loads and program-enabled  
19 controls mature into a meaningful reliability resource.
- 20 • **Public health, safety, and indoor air quality improvements:** The long-term outcomes  
21 include improved public health, safety, and indoor air quality, which is the long-term result  
22 of scaling building upgrades and electrification—especially when paired with barrier  
23 reduction to ensure interventions land where they are needed most.
- 24 • **Economic and workforce development:** The workforce pathway in the model (inputs →  
25 training/career support activities → workforce outputs → readiness/capacity outcomes →  
26 long-term economic development) supports an eight-year goal of building a durable “high-  
27 road” delivery ecosystem, particularly in equity communities.
- 28 • **Sustained adoption of low global warming potential (“GWP”) refrigerants and better  
29 handling practices:** The short- and medium-term outcomes around improved refrigerant  
30 handling and adoption support a longer-term transition to better refrigerant management  
31 norms—realizing decarbonization and environmental benefits over an eight-year horizon.

## 32 2. MCE’s Strategies to Optimize Portfolio and Manage Risk

### 33 2.1 Use of TSB Goals and Cost-Effectiveness Metrics to Maximize Portfolio 34 Performance

35 MCE embeds TSB goals and cost-effectiveness metrics into all stages of its portfolio  
36 management including program design, implementation, and review. MCE establishes portfolio

1 goals using both sector- and segment-specific targets to ensure each program meaningfully  
2 contributes to its portfolio-wide savings, TSB outcomes, and cost-effectiveness. MCE tracks  
3 program performance in its Program Management Platform, which captures real-time data on  
4 energy savings, budget expenditures, project counts, project developments, and project  
5 commitments. MCE staff reviews this information monthly to assess its progress toward goals and  
6 to identify any emerging issues or needed areas for improvement. In addition, MCE monitors  
7 customer-type data to maintain balanced participation across market segments. If MCE identifies  
8 over- or under-participation across market segments, MCE takes steps to ensure that no single  
9 customer category is over- or underrepresented.

10 To ensure success, MCE relies on performance-based contracting wherever feasible with  
11 contracting parties within the Resource Acquisition segment, which requires incentives to be  
12 aligned with TSB wherever feasible to maximize delivered value relative to cost. MCE also  
13 prioritizes the use of low- and no-cost measures, such as those identified through Strategic Energy  
14 Management (“SEM”) programs for industrial, agricultural, commercial, and multifamily  
15 customers. These measures deliver high cost-effectiveness, meaningful energy savings and support  
16 broad customer engagement. For Market Support and Equity programs that do not maximize TSB  
17 goals, MCE tracks performance using the adopted metrics for those segments, which capture both  
18 energy, affordability and non-energy benefits (“NEBs”).<sup>124</sup>

## 19 **2.2 Risk Management and Flexibility in Addressing Underperformance**

20 MCE employs a flexible, data-driven approach to manage the risk of underperformance  
21 across its portfolio. MCE’s Program Management Platform provides ongoing performance

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<sup>124</sup> California Public Utilities Commission (“CPUC”), Resolution E-5351, *Clarification and revisions to adopted indicators and metrics related to energy efficiency portfolios in compliance with Decision (D.) 23-06-055* (June 12, 2025).

1 monitoring, with data on energy savings, budget expenditures, and project pipeline activity  
2 reviewed by MCE staff on at least a monthly basis. This allows staff to detect any early signs of  
3 underperformance, such as falling short of savings targets, low cost-effectiveness results, QA  
4 concerns, or declining project pipelines. MCE’s tracking of customer engagement metrics further  
5 helps it identify participation gaps that could hinder program and portfolio performance.

6         When MCE identifies underperformance, MCE begins by accurately diagnosing the root  
7 cause and then tailoring a unique solution to the actual cause. Diagnostic actions include reviewing  
8 program reporting including customer surveys, communicating with any implementers or program  
9 partners, assessing feedback from any relevant stakeholder engagement activities, and reviewing  
10 Evaluation Measurement and Verification (“EM&V”) materials including recommendations.  
11 Underperformance may stem from program design challenges, market conditions or changes,  
12 implementer capacity, or customer uptake and interest in a particular program. MCE may respond  
13 to any underperformance with targeted adjustments, such as modifying incentives or expanding  
14 customer outreach, or more significant changes, such as redesigning the measure mix or altering  
15 the delivery model of a program. If needed, MCE shifts portfolio resources toward higher-  
16 performing programs or measures, and in cases where recovery is not feasible, MCE may close  
17 programs and reallocate budgets.<sup>125</sup>

18         To preserve responsiveness, MCE retains the flexibility to make mid-cycle adjustments  
19 without formal reauthorization, to reallocate funds between programs and segments as priorities

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<sup>125</sup> For example, MCE detailed its efforts to identify, address and redress underperformance of its former Home Energy Reports program in MCE Advice Letter 64-E. MCE closed the program pursuant to Commission requirements and completed the ENERGY DIVISION PROCESS CHECKLIST TO ENERGY EFFICIENCY PROGRAM ADMINISTRATORS FOR PROGRAM CLOSURES AND LAUNCHES (12/31/2021). MCE AL 64-E, pp. 2-4.

1 shift, and to pilot or rapidly deploy new strategies in response to changes in policy, regulation,  
2 research findings, or market conditions.

### 3 **2.3 Procurement Practices and Risk Management**

4 MCE’s procurement practices are designed to both create value and reduce risk in  
5 forecasting, expenditures, program implementation, and regulatory compliance. Risk management  
6 practices are focused on the risks to program cost-effectiveness, overspending total budget or  
7 overspending on capped budget categories, and project underperformance. Performance-based  
8 contracts with implementers link any payment to verified results, ensuring that cost-effectiveness  
9 is achieved at the project level. This structure aligns implementer incentives with portfolio TSB  
10 and savings goals, reinforcing accountability and high-value project delivery.

11 Risk is further mitigated through contractual performance thresholds, which prevent  
12 spending on non-cost-effective projects, and through the use of meter-based analytics to identify  
13 customers with the greatest potential to deliver savings during high avoided-cost hours. These  
14 analytical methods improve the accuracy of forecasts and enhance the likelihood of achieving  
15 portfolio goals. Ongoing and regular oversight of implementer contracts ensures adherence to  
16 regulatory requirements, reducing the risk of disallowed expenditures. Finally, by diversifying its  
17 implementers and delivery models, MCE limits reliance on any single vendor or strategy, creating  
18 a more resilient and adaptable portfolio.

### 19 **3. Statewide Assessment**

20 MCE recommends the Commission scope statewide EE program assessment processes into  
21 Rulemaking (“R.”) 25-04-010. Pursuant to Decision (“D.”) 23-06-055 Conclusion of Law 7, MCE  
22 participated in the joint program administrator (“PA”) activities in 2025 and 2026 facilitated by  
23 Pacific Gas & Electric Company (“PG&E”) to propose and draft an assessment process for  
24 statewide programs. MCE attended meetings, participated in discussions, offered written

1 suggestions, completed the circulated survey and commented on draft submissions. Joint PAs  
2 submitted the *Statewide Energy Efficiency Program Assessment Criteria Report: D.23-06-055 OP*  
3 *2 Statewide Assessment Framework* (“Statewide EE Assessment Report”) to Energy Division staff  
4 on February 12, 2026. MCE appreciated the opportunity to work with its fellow PAs, but offers its  
5 qualified support for the Statewide EE Assessment Report submitted by Joint PAs. MCE highlights  
6 the following critical points for the Commission to consider in its review of the Statewide EE  
7 Assessment Report and statewide programs more broadly:

8         1.         Based on the diversity of PA opinions and the potential implications of assessment  
9 processes for statewide programs including dramatic changes to program attributions, customer  
10 experiences, and program measure mixes, MCE recommends the Commission scope the  
11 assessment of statewide EE programs into R.25-04-010. As documented in the Statewide EE  
12 Assessment Report, all PAs offered qualified support for the statewide assessment proposal.<sup>126</sup> All  
13 PAs offered a diverse range of complementary additions or qualifiers to the proposal. MCE  
14 believes the Commission would benefit from a public record that includes non-PA stakeholders,  
15 and a holistic conversation on all related statewide program issues in concert with other portfolio  
16 issues in the general EE proceeding.

17         MCE is particularly concerned that non-PA stakeholders, especially Equity customers  
18 historically underserved by EE programs and their advocates, were not yet provided an opportunity  
19 to share their opinions on statewide EE program assessments and programs. Goal 5 of the  
20 Commission’s Environmental and Social Justice Action Plan requires the Commission to  
21 “[e]nhance outreach and public participation opportunities for ESJ communities to meaningfully

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<sup>126</sup> Statewide EE Assessment Report, Appendix B, p. 15.

1 participate in the CPUC’s decision-making process and benefit from CPUC programs.”<sup>127</sup> MCE  
2 finds the statewide or local administration model and specific administrator of programs critical  
3 questions that would benefit from providing ESJ customers the opportunity to comment explicitly.  
4 MCE recommends the Commission scope the application of the Statewide EE Assessment Report  
5 in R.25-04-010.

6         2.         The Statewide EE Assessment Report’s threshold criteria is one of the topics that  
7 would benefit from the Commission scoping the application of the Statewide EE Assessment  
8 Report into the EE policy proceeding (R.25-04-010). MCE does not agree with the Statewide EE  
9 Assessment Report’s threshold criteria for each set of scoring questions and notes that there are  
10 logical errors in the proposed thresholds. MCE finds merit in the questions presented. However,  
11 MCE disagrees with the scoring and application of the proposed criteria. MCE submits that, for  
12 some programs evaluation, a “majority” of satisfied criteria may not be sufficient, and a program  
13 should pass all screening criteria to be considered for statewide implementation.<sup>128</sup> There should  
14 be further discussion to refine the threshold criteria for each section.<sup>129</sup> Each of the criteria in the  
15 Statewide EE Assessment Report points to critical functions of the programs, obligations to  
16 customers and existing compliance requirements. A simple scoring rubric valuing all criteria  
17 equally obscures those critical functions, obligations to customers and existing compliance  
18 requirements that could be impacted by a change of administration model and administrator. MCE  
19 finds these determinations factually specific, complex, and in need of additional stakeholder input,  
20 which should occur in R.25-04-010.

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<sup>127</sup> CPUC, Environmental and Social Justice Action Plan Vol 2, April 2022, available at:  
<https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf>, p. 5.

<sup>128</sup> *Id.* at 6-9.

<sup>129</sup> *Id.*

1           3.       Another topic that would benefit from the Commission scoping the use of the  
2 Statewide EE Assessment Report and statewide administration issues into R.25-04-010 is the  
3 question of what the appropriate procedural vehicle is to elevate a program to statewide program  
4 status. MCE submits the appropriate procedural vehicle for elevation of a program to a statewide  
5 program status is an application. The Commission’s application process<sup>130</sup> provides the required  
6 public process, public record, and regulatory oversight to ensure elevation is in the best interest of  
7 ratepayers.

8           If the Commission decides to use the proposed process to select programs for statewide  
9 implementation that are currently administered by a community choice aggregator (“CCA”) like  
10 MCE, the Commission must address the resulting cost-effectiveness implications. This challenge  
11 is unique to CCA PAs, because investor-owned utility (“IOU”) PAs receive attribution for  
12 statewide programs while CCAs do not.<sup>131</sup> As a result, a program that is cost-effective under local  
13 administration could transition to statewide delivery and improve the cost-effectiveness of an IOU  
14 PA’s portfolio (particularly if additional efficiencies are realized at scale), while creating  
15 significant negative impacts on a CCA portfolio and its ability to meet cost-effectiveness  
16 requirements. MCE requests the Commission scope statewide program issues into R.25-04-010  
17 and not its isolated EE applications decision.

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<sup>130</sup> CPUC, Rules of Practice and Procedure, California Code of Regulations Title 20, Division 1, Chapter 1, Article 2.1 - Article 2.9.

<sup>131</sup> D.16-08-019, Ordering Paragraph 7 (“The budget for each statewide program in each utility territory shall be counted toward the cost-effectiveness of each utility’s energy efficiency portfolio and each utility shall be given energy savings and Energy Savings Performance Incentive credit consistent with their customers’ funding and program participation.”).

1 **Chapter 6: Segmentation and Sector Strategy**

2 **1. Portfolio Sector Strategy**

3 Marin Clean Energy (“MCE”) deploys different strategies across the various sectors it  
 4 serves, targeted to take advantage of these sectors’ unique opportunities and address their unique  
 5 challenges. MCE is constantly revising these strategies, and uses them to identify promising topics  
 6 for E&MV that will, in turn, better inform these strategies. MCE is committed to sector and  
 7 segmentation strategies that advance the Commission’s energy efficiency (“EE”) goals, MCE’s  
 8 mission, and related state policy objectives, and that meet the needs of its customers and service  
 9 area.

10 **Table 6-1: Budget Distribution by Sector**

Budget Distribution by Sector (\$000)									
	Sector								
Budget	Residential	Commercial	Industrial	Agricultural	Public	Cross-Cutting	EM&V	Portfolio Support	Total Budget
2028	\$5,007	\$5,460	\$1,910	\$100	\$0	\$1,674	\$623	\$803	\$15,577
2029	\$5,289	\$5,823	\$2,018	\$106	\$0	\$1,712	\$658	\$848	\$16,454
2030	\$5,322	\$5,866	\$2,031	\$106	\$0	\$1,716	\$662	\$853	\$16,556
2031	\$5,356	\$5,910	\$2,044	\$107	\$0	\$1,721	\$667	\$859	\$16,664
<b>Total (4-year)</b>	<b>\$20,974</b>	<b>\$23,059</b>	<b>\$8,003</b>	<b>\$419</b>	<b>\$0</b>	<b>\$6,823</b>	<b>\$2,610</b>	<b>\$3,363</b>	<b>\$65,251</b>
2032	\$5,393	\$5,880	\$2,058	\$108	\$0	\$1,803	\$671	\$865	\$16,777
2033	\$5,431	\$5,922	\$2,072	\$108	\$0	\$1,816	\$676	\$871	\$16,896
2034	\$5,471	\$5,966	\$2,088	\$109	\$0	\$1,829	\$681	\$877	\$17,021
2035	\$5,513	\$6,012	\$2,104	\$110	\$0	\$1,843	\$686	\$884	\$17,151
<b>Total (4-year)</b>	<b>\$21,808</b>	<b>\$23,779</b>	<b>\$8,321</b>	<b>\$436</b>	<b>\$0</b>	<b>\$7,290</b>	<b>\$2,714</b>	<b>\$3,497</b>	<b>\$67,845</b>
<b>Cumulative Total (8-Year)</b>	<b>\$42,782</b>	<b>\$46,838</b>	<b>\$16,324</b>	<b>\$854</b>	<b>\$0</b>	<b>\$14,113</b>	<b>\$5,324</b>	<b>\$6,860</b>	<b>\$133,096</b>

11 **1.1 Agricultural Sector**

12 MCE serves 3,200 agricultural accounts within its service area that collectively consume  
 13 over 89,000 megawatt hours (“MWh”) annually (representing three percent in terms of non-  
 14 residential load and one percent of MCE’s total electricity load). While agricultural load is a  
 15 relatively small portion of MCE’s non-residential customer base, the agricultural sector’s demand

1 is growing statewide,<sup>132</sup> and MCE expects increasingly intense fire seasons and long-duration  
 2 droughts to amplify the sector’s evolving energy needs.<sup>133</sup> MCE employs several strategies to meet  
 3 TSB goals and provide value to its agricultural customers.

4 **Table 6-2: MCE’s Agricultural Sector Strategies**

1)	<p>Efficiently implement programs within the overarching MCE Energy Management Program umbrella.</p> <ul style="list-style-type: none"> <li>- Thoughtful approach to investing in agricultural sector considering the comparatively small size, small load, and corresponding opportunity of EE measures.</li> <li>- MCE optimizes its Energy Management program umbrella for greater cost-effectiveness.</li> <li>- MCE’s Energy Management program design reduces customer confusion.</li> <li>- MCE’s Energy Management program design limits administrative burdens.</li> </ul>
2)	<p>Deploy EE projects with measures designed to meet agricultural customers’ unique business needs.</p> <ul style="list-style-type: none"> <li>- Agricultural customers present unique needs for EE with distinct profit margins, diverse load shapes, seasonally distinct load shapes, and specific technological needs.</li> <li>- MCE selects EE measures in response to customers’ individual and sector-based needs.</li> </ul>
3)	<p>Identify customers with the greatest savings and Total System Benefit (“TSB”) potential using MCE’s Data Analytics Platform.<sup>134</sup></p> <ul style="list-style-type: none"> <li>- MCE’s Data Analytics Platform allows the agency to optimally identify customers for participation thus streamlining outreach methods and supporting cost-effective programs and program administration.</li> </ul>

<sup>132</sup> CAISO, Large load: The California ISO’s role in large loads, available at: <https://www.caiso.com/generation-transmission/load/large-load#:~:text=California%20faces%20a%20surge%20in,and%203.3%20GW%20by%202035> (“California faces a surge in electricity demand driven in part by new large loads and the California Independent System Operator (ISO) is committed to meeting new energy demand reliably, affordably, and equitably. Data centers present the largest use-case but electric vehicle charging, electrification of agricultural and industrial processes also will contribute to this growth.”).

<sup>133</sup> Li, S., Banerjee, T. Spatial and temporal pattern of wildfires in California from 2000 to 2019. *Sci Rep* **11**, 8779 (2021), available at: <https://doi.org/10.1038/s41598-021-88131-9>; California, California Climate Adaptation Strategy, Summary of Projected Climate Change Impacts on California, available at: <https://climateresilience.ca.gov/overview/impacts.html#:~:text=major%20economic%20impacts,-.Drought,or%20state%20small%20water%20systems> (wildfire and drought).

<sup>134</sup> In 2025, MCE Technology and Analytics Team Staff developed a searchable customer information database tool to support improved program design, administration, and evaluation for MCE staff. MCE is committed to offering EE programs to all its customers, complying with all applicable data privacy laws, ensuring equitable access to its programs, and following Commission requirements for program administration. MCE’s use of its data analytics tool is rooted in those core principles.

	<ul style="list-style-type: none"> <li>- MCE’s Data Analytics Platform helps it identify key customers with peak loads ideal for shifting and customers with seasonal loads presenting high values for load shifting measures, strengthening grid reliability and the cost-effectiveness of the program.</li> <li>- Customer data analysis allows MCE to design programs beneficial to both the participants and all ratepayers using the grid.</li> </ul>
4)	<p>Market program benefits by engaging with local agricultural partner organizations (e.g., county farm bureaus).</p> <ul style="list-style-type: none"> <li>- Marketing through appropriate channels leads to greater success in this challenging segment.</li> <li>- With the diversity of agricultural operations in MCE’s service area, collaborations with County farm bureaus and other sustainability-based organizations are crucial for driving and retaining participation in programs. These entities are trusted by customers in the agricultural sector and effective communicators.</li> <li>- MCE can leverage its existing communication channels and streamline its corresponding outreach and administrative costs.</li> <li>- MCE can also deepen its understanding of agricultural customers’ needs and priorities through local partnerships. MCE can then use this information to continue refining its program design and administration for the agricultural sector.</li> </ul>
5)	<p>Promote and encourage customer enrollment in other complementary sustainability, affordability, and energy initiatives (referred to as the “Any Open Door” strategy).</p> <ul style="list-style-type: none"> <li>- MCE informs customers interested in EE programs of other complementary sustainability, affordability, and energy programs for which they may be eligible.</li> <li>- This strategy supports customers receiving greater value and energy education from EE program participation.</li> <li>- Complementary programs like energy bill discounts often inspire customers to participate in EE programs and vice versa.</li> </ul>

1                                    **1.2     Commercial Sector**

2                                    MCE serves approximately 55,000 commercial accounts, as well as an additional 4,000

3 non-residential customers that have no further secondary segment classification per their North

4 American Industry Classification System codes. MCE treats these 4,000 customers as part of the

5 commercial sector. MCE’s commercial sector customers consume an estimated 2.6 million MWh

6 annually (representing roughly 65 percent of all MCE non-residential consumption, and 35 percent

7 of MCE’s total electricity load).

1 MCE additionally serves its public sector customers (roughly 6,800 public sector accounts)  
 2 with its commercial sector offerings, because these customers collectively have similar energy  
 3 usage and program needs. These customers are eligible to participate in MCE’s Energy  
 4 Management program and in the Flex Market programs.

5 MCE’s commercial programs reach a diverse customer base, allowing for flexible  
 6 strategies and nimble program structures that leverage a broad network of EE service providers.  
 7 MCE uses a variety of strategies to meet or exceed TSB goals in this sector, to provide value to its  
 8 commercial customers, and to ensure that commercial Equity customers benefit equitably from EE  
 9 program funding.

10 **Table 6-3: MCE’s Commercial Sector Strategies**

1)	<p>Efficiently implement programs within the overarching MCE Energy Management Program umbrella.</p> <ul style="list-style-type: none"> <li>- Thoughtful approach to investing in commercial sector considering their diversity of load shapes including large loads and corresponding opportunity of EE measures.</li> <li>- MCE optimizes its Energy Management program umbrella for greater cost-effectiveness.</li> <li>- MCE’s Energy Management program design reduces customer confusion.</li> <li>- MCE’s Energy Management program design limits administrative burdens.</li> </ul>
2)	<p>Deploy Strategic Energy Management (“SEM”) and custom projects with measures designed to meet commercial customers’ unique business needs.</p> <ul style="list-style-type: none"> <li>- MCE proposes to focus on individual customer needs through SEM programming. SEM provides customers with a single point of contact for their energy journey and a personally tailored focus on a specific customer’s operations.</li> <li>- Commercial customers are extremely diverse and often have complex energy needs. SEM is well suited to offer individualized guidance, education, and measures for the customer’s benefit.</li> <li>- SEM helps identify customers’ energy pain points and opportunities for efficiency, with the aim of delivering no- and low-cost savings.</li> <li>- SEM provides a valuable opportunity to build strong relationships with customers and to explore additional beneficial EE projects, or demand management opportunities.</li> <li>- SEM savings are grounded in hourly interval data, which may provide opportunities to introduce time-dependent savings valuations based on their avoided cost value. Leading with SEM and scaling payments to attract</li> </ul>

	beneficial projects will result in an outcome in which programs optimize TSB and savings for customers.
3)	Scale incentives based on TSB. <ul style="list-style-type: none"> <li>- MCE will continue to scale incentives for commercial customers based on TSB.</li> <li>- Scaling incentives based on TSB ties program expenditures to the benefits delivered. By tying incentives directly to TSB, programs can deliver more cost-effective solutions and benefits overall.</li> </ul>
4)	Identify customers with the greatest savings and TSB potential using MCE’s Data Analytics Platform. <ul style="list-style-type: none"> <li>- A data-centered approach helps MCE identify customer profiles that indicate significant energy savings potential during high value periods and can suggest specific offerings to reduce energy consumption.</li> <li>- MCE’s Data Analytics Platform allows the agency to optimally identify customers for participation, thus streamlining outreach methods and supporting cost-effective programs and program administration.</li> <li>- MCE will encourage commercial customers to adopt measures that reduce peak usage and shift load to off-peak periods by offering higher incentive rates for peak period reductions.</li> <li>- Customer data analysis allows MCE to design programs beneficial to both the participants and all ratepayers using the grid.</li> </ul>
5)	Incorporate low-global warming potential (“GWP”) equipment installations <ul style="list-style-type: none"> <li>- Low-GWP product incentives can reduce the financial impacts of fuel switching measures and allow greater commercial sector greenhouse gas (“GHG”) emissions reductions.</li> <li>- MCE will encourage adoption of energy-efficient, low-GWP technologies and will leverage population NMEC and the Refrigerant Avoided Cost Calculator to deliver measurable and meaningful TSB.</li> </ul>
6)	Assist customers to access and enroll in creative financing opportunities offered by other entities. <ul style="list-style-type: none"> <li>- Funding capital projects can be challenging for commercial customers and low interest financing can help.</li> <li>- MCE will support commercial customers in accessing beneficial financing opportunities.</li> <li>- This includes promoting available financing pathways, partnering with financial institutions such as National Energy Improvement Fund to provide direct financing solutions to customers, facilitating access to PG&amp;E’s on-bill financing (“OBF”) programs,<sup>135</sup> and other opportunities available during the portfolio cycle.</li> </ul>
7)	Support streamlined customer enrollment in other complementary programs (referred to as the “Any Open Door” strategy). <ul style="list-style-type: none"> <li>- MCE informs commercial customers interested in EE programs of other complementary sustainability, affordability, and energy programs for which they may be eligible.</li> </ul>

<sup>135</sup> See e.g. PG&E, On-Bill Financing Program, available at: [https://www.pge.com/assets/pge/docs/save-energy-and-money/energy-savings-programs/fs\\_obf.pdf](https://www.pge.com/assets/pge/docs/save-energy-and-money/energy-savings-programs/fs_obf.pdf).

	<ul style="list-style-type: none"> <li>- This strategy supports customers receiving greater value and energy education from EE program participation.</li> <li>- Complementary programs like energy bill discounts often inspire customers to participate in EE programs and vice versa.</li> <li>- Commercial sector EE offerings serve as a bridge for participants (either vendors or customers) to engage in other energy management, affordability, and GHG-reduction activities.</li> </ul>
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1                    **1.3 Industrial Sector**

2                    MCE serves approximately 6,000 industrial accounts, collectively consuming  
3 approximately one million MWh annually (representing 30 percent of MCE’s non-residential load  
4 and 16 percent of MCE’s total electricity load). Characteristics of industrial customers and their  
5 energy priorities are highly variable. MCE designed strategies to ensure that its industrial program  
6 delivers value to its diverse industrial customers, while also achieving or exceeding TSB goals.  
7 Through MCE’s Energy Management program, MCE will also serve public sector facilities whose  
8 operations resemble industrial processes, including facilities such as water and wastewater  
9 treatment plants.

10                    **Table 6-4: MCE’s Industrial Sector Strategies**

1)	<p>Holistic program design and implementation that cost-effectively addresses the needs of industrial customers (MCE’s Energy Management program) and mitigates common customer pain points.</p> <ul style="list-style-type: none"> <li>- MCE employs a thoughtful approach to investing in the industrial segment considering the diversity of load shapes, including large loads, in this segment, and corresponding opportunity of EE measures.</li> <li>- MCE optimizes its Energy Management program umbrella for greater cost-effectiveness.</li> <li>- MCE’s Energy Management program design reduces customer confusion.</li> <li>- MCE’s Energy Management program design limits administrative burdens.</li> </ul>
2)	<p>Deploy SEM and custom projects with measures designed to meet industrial customers’ unique business needs.</p> <ul style="list-style-type: none"> <li>- MCE proposes to focus on individual customer needs through SEM programming. SEM provides customers with a single point of contact for their energy journey and a personally tailored focus on a specific customer’s operations.</li> <li>- Industrial customers are diverse, with varying energy needs according to their needed industrial processes. SEM is well suited to offer individualized guidance, education, and measures for the customer’s benefit.</li> </ul>

	<ul style="list-style-type: none"> <li>- SEM helps identify customers’ energy pain points and opportunities for efficiency, with the aim of delivering no- and low-cost savings.</li> <li>- SEM provides a valuable opportunity to build strong relationships with customers and to explore additional beneficial EE projects, or demand management opportunities.</li> <li>- SEM savings are grounded in hourly interval data, which may provide opportunities to introduce time-dependent savings valuations based on their avoided cost value. Leading with SEM and scaling payments to attract beneficial projects will result in an outcome in which programs optimize TSB and savings for customers.</li> </ul>
3)	<p>Scale incentives based on TSB.</p> <ul style="list-style-type: none"> <li>- MCE will scale industrial customers’ incentives based on TSB.</li> <li>- Scaling incentives based on TSB ties program expenditures to the benefits delivered. By tying incentives directly to TSB, programs can deliver more cost-effective solutions and benefits overall.</li> </ul>
4)	<p>Identify customers with the greatest savings and TSB potential using MCE’s Data Analytics Platform.</p> <ul style="list-style-type: none"> <li>- A data-centered approach helps MCE identify customer profiles that indicate significant energy savings potential during high value periods and can suggest specific offerings to reduce energy consumption.</li> <li>- MCE’s Data Analytics Platform allows the agency to optimally identify customers for participation, thus streamlining outreach methods and supporting cost-effective programs and program administration.</li> <li>- MCE will encourage industrial customers to adopt measures that reduce peak usage and shift load to off-peak periods by offering higher incentives rates for peak period reductions.</li> <li>- Customer data analysis allows MCE to design programs beneficial to both the participants and all ratepayers using the grid.</li> </ul>
5)	<p>Support streamlined customer enrollment in other complementary programs. (referred to as the “Any Open Door” strategy).</p> <ul style="list-style-type: none"> <li>- MCE informs industrial customers interested in EE programs of other complementary sustainability, affordability, and energy programs for which they may be eligible.</li> <li>- This strategy supports industrial customers receiving greater value and energy education from EE program participation.</li> <li>- Complementary programs like energy bill discounts often inspire customers to participate in EE programs and vice versa.</li> <li>- MCE will look to connect industrial customers to available local and regional offerings (e.g., water districts), and where possible, introduce representatives from these programs during the delivery of programs.</li> <li>- Industrial sector EE offerings serve as a bridge for industrial customer participants to engage in other energy management, affordability, sustainability, and GHG-reduction activities.</li> </ul>

1                   **1.4 Residential Sector**

2                   MCE serves approximately 619,000 residential accounts in MCE’s service area,  
3 representing nearly 90 percent of MCE’s total customer accounts. Residential customers consume  
4 approximately 2.9 million MWhs annually (representing 46 percent of total electricity load in  
5 MCE’s service area). Approximately 26 percent of MCE’s residential customers live in  
6 multifamily properties, with the remaining 74 percent of residential customers living in single  
7 family properties. MCE will offer comprehensive EE programs to both single-family and  
8 multifamily properties, with some programs focusing on delivering greater benefit to the residents  
9 (e.g., homeowner or renter), and others focusing on delivering greater benefit to the property  
10 owners and managers to address split incentive challenges.<sup>136</sup>

11                  MCE proposes two primary goals for its residential sector customers: (1) serve low- to  
12 moderate-income customers with comprehensive offerings that save energy and produce bill  
13 savings while providing additional non-energy benefits (“NEBs”) like improved health, safety, and  
14 comfort; and (2) serve market-rate residential customers with programs that meet or exceed TSB  
15 requirements.

16                  MCE will reach these goals by adopting the strategies described in Table 6-5.

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<sup>136</sup> American Council for Energy Efficient Economy, Expanded Split Incentives in Buildings’ Value Chains, (2024), available at: [https://www.aceee.org/sites/default/files/proceedings/ssb24/assets/attachments/20240722160818906\\_fd1c24d3-02a5-4dc8-bf5c-7421b7fa6adf.pdf](https://www.aceee.org/sites/default/files/proceedings/ssb24/assets/attachments/20240722160818906_fd1c24d3-02a5-4dc8-bf5c-7421b7fa6adf.pdf), p. 2 (“A split incentive is when the benefit of a transaction is not accrued by the payer, discouraging the transaction. The classic example of this is the relationship between landlord and tenant. The landlord could install a more efficient heating system that would lower heating bills. However, if the tenant pays the heating bill, the landlord does not have a personal financial incentive. In fact, the landlord has a disincentive, as they would have to pay for the improvements and never make their money back. Therefore, the conflicting interests of the landlord and the tenant prevent energy efficiency from being implemented.”).

**Table 6-5: MCE’s Residential Sector Strategies**

1)	<p>Identify customers with the greatest savings and TSB potential using MCE’s Data Analytics Platform.</p> <ul style="list-style-type: none"> <li>- The Data Analytics Platform enables MCE to identify customers with distinct characteristics, including high electricity usage, elevated renter-to-homeowner ratios, and geographic and climate factors associated with higher loads.</li> </ul>
2)	<p>Align incentives by using pay-for-performance programs.</p> <ul style="list-style-type: none"> <li>- Pay-for-performance programs reduce risk to ratepayers by tying payments to actual savings rather than forecasts, providing greater incentives to individual customers while remaining cost-effective.</li> </ul>
3)	<p>Expand existing programs to reach moderate-income customers.</p> <ul style="list-style-type: none"> <li>- As noted in MCE’s recent Mid-Cycle Advice Letter 91-E Multifamily Energy Savings-Resource program launch request, moderate-income customers often cannot afford efficiency measures yet fall outside the income thresholds for low-income program eligibility.</li> </ul>
4)	<p>Support streamlined customer enrollment in other complementary programs (referred to as the “Any Open Door” strategy).</p> <ul style="list-style-type: none"> <li>- MCE informs residential customers interested in EE programs of other complementary sustainability, affordability, and energy programs for which they may be eligible.</li> <li>- This strategy supports residential customers receiving greater value and energy education from EE program participation.</li> <li>- Complementary programs like energy bill discounts often inspire customers to participate in EE programs and vice versa.</li> <li>- MCE will look to connect residential customers to available local, regional, and state offerings when applicable.</li> <li>- Residential sector EE offerings serve as a bridge for residential customer participants to engage in other energy management, affordability, sustainability, and GHG-reduction activities.</li> </ul>
5)	<p>Invest in Community Engagement.</p> <ul style="list-style-type: none"> <li>- MCE will engage communities and customers through multiple approaches to build trust with customers that enable deeper energy upgrades and positive impacts for participants and MCE’s service area.</li> <li>- MCE will continue to engage residential customers through multiple channels including but not limited to written and phone surveys.</li> <li>- MCE’s approach includes multilingual outreach and program materials that ensure communities have access to information in their primary languages.</li> </ul>

2

## **2. Portfolio Segmentation Strategy (RA, MS, E, C&S) – Four Year and Eight Year**

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MCE’s strategy for distributing its portfolio budget between the Resource Acquisition,

5

Market Support, and Equity segments is based on the defined objectives of each segment. To

6

determine the appropriate allocation of funding across the three segments, MCE first projected the

1 budget for the Resource Acquisition segment of the portfolio, based on a zero-based budgeting  
 2 approach.<sup>137</sup> The zero-based budgeting process determines budgets at a program level, grounded  
 3 in an assessment of Total System Benefit (“TSB”) potential by program and the implementation,  
 4 administrative and market support needed to achieve that potential. MCE designed its budget for  
 5 Equity and Market Support segment programs based on the specific delivery needs, scope of work,  
 6 and expected outcomes of each program rather than applying a uniform budget formula. MCE also  
 7 considers past performance, anticipated participation, implementation complexity, and the  
 8 percentage of customers in the service area who may qualify for these programs.

9 The following table shows the budget distribution for the 8-year Business Plan period  
 10 among segments.

11 **Table 6-6: 4-year Portfolio Budget Forecast Summary (2028-2031)**

<b>4-year Portfolio Budget Forecast Summary (2028-2031) (\$000)</b>					
	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>Total (4 Years)</b>
<b>Total Budget</b>	\$15,577	\$16,454	\$16,556	\$16,664	\$65,251
<b>Resource Acquisition Segment Budget</b>	\$9,502	\$10,037	\$10,099	\$10,165	\$39,803
<b>Market Support Segment Budget</b>	\$765	\$808	\$813	\$818	\$3,203
<b>Equity Segment Budget</b>	\$4,687	\$4,951	\$4,982	\$5,014	\$19,635
<b>Codes and Standard Budget</b>	\$0	\$0	\$0	\$0	\$0
<b>EM&amp;V</b>	\$623	\$658	\$662	\$667	\$2,610
<b>Administration</b>	\$1,020	\$1,460	\$1,499	\$1,539	\$5,518
<b>ED Portfolio Oversight</b>	\$0	\$0	\$0	\$0	\$0

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<sup>137</sup> MCE describes its zero-based budgeting approach for portfolio planning in more detail in **Chapter 4: Forecast Methodology and Zero-Based Budgeting**.

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Table 6-7: 4-year Portfolio Forecast Summary (2028-2031)

4-year Portfolio Budget Forecast Summary (2028-2031) (\$000)						
	2028	2029	2030	2031	Resource Acquisition Segment Only (Total 4-Year)	Total (4 Years)
<b>Total System Benefit (TSB)</b>	\$16,737	\$17,452	\$18,224	\$19,012	\$58,392	\$71,426
<b>Total Resource Cost (TRC) Ratio</b>	0.98	0.97	1.00	1.03	1.23	1.00
<b>Program Administrator Cost (PAC) Ratio</b>	1.07	1.06	1.10	1.13	1.43	1.09
<b>Societal Cost Test (SCT) Base</b>	1.30	1.29	1.33	1.37	1.59	1.35
<b>Societal Cost Test (SCT) High</b>	1.30	1.29	1.33	1.37	1.60	1.35
<b>Ratepayer Impact Measure Test Ratio (RIM)</b>	0.58	0.58	0.59	0.59	0.71	0.58
<b>Lifecycle GWh<sup>138</sup></b>	27	27	27	27	192	109
<b>First Year MW</b>	1,467	1,467	1,467	1,467	5,553	5,868
<b>Lifecycle MMTherms</b>	7	7	7	7	16	26.3
<b>Lifecycle CO2 Metric Tons</b>	4,739	4,044	3,952	3,931	14,577	16,666

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<sup>138</sup> Resource Acquisition segment GWh savings exceed Total (4 Years) GWh savings due to the high volume of electrification measures forecasted within the Equity segment.

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**Table 6-8: 4-year Portfolio Budget Forecast Summary (2032-2035)**

<b>4-year Portfolio Budget Forecast Summary (2028-2031) (\$000)</b>					
	<b>2032</b>	<b>2033</b>	<b>2034</b>	<b>2035</b>	<b>Total (4 Years)</b>
<b>Total Budget</b>	\$16,777	\$16,896	\$17,021	\$17,151	\$67,845
<b>Resource Acquisition Segment Budget</b>	\$10,234	\$10,306	\$10,383	\$10,462	\$41,385
<b>Market Support Segment Budget</b>	\$824	\$829	\$835	\$842	\$3,330
<b>Equity Segment Budget</b>	\$5,048	\$5,084	\$5,122	\$5,161	\$20,415
<b>Codes and Standard Budget</b>	\$0	\$0	\$0	\$0	\$0
<b>EM&amp;V</b>	\$671	\$676	\$681	\$686	\$2,714
<b>Administration</b>	\$1,585	\$1,633	\$1,682	\$1,732	\$6,632
<b>ED Portfolio Oversight</b>	\$0	\$0	\$0	\$0	\$0

2

1 **Table 6-9: 4-year and 8-year IOUs Total System Benefit Forecast (w/out C&S) vs. Goals**

<i>4-Year and 8-Year Total System Benefit Forecast vs. Goals (\$000)</i>			
<b>Year</b>	<b>Total System Benefit Forecast</b>	<b>Total System Benefit Goals</b>	<b>Percent of TSB Goal</b>
<b>2028</b>	\$16,737	\$16,737	100%
<b>2029</b>	\$17,452	\$17,452	100%
<b>2030</b>	\$18,224	\$18,224	100%
<b>2031</b>	\$19,012	\$19,012	100%
<b>Total (4 years)</b>	\$71,426	\$71,426	100%
<b>2032</b>	\$19,818	\$19,818	100%
<b>2033</b>	\$20,642	\$20,642	100%
<b>2034</b>	\$21,542	\$21,542	100%
<b>2035</b>	\$22,413	\$22,413	100%
<b>Total (4 years)</b>	\$84,416	\$84,416	100%
<b>Cumulative (8 years)</b>	\$155,842	\$155,842	100%

2 MCE determined the distribution of budgets for each sector using a bottom-up budgeting  
 3 process based on each program’s projected energy savings (for Resource Acquisition programs),  
 4 or the program’s planned activities (for Market Support and Equity programs). To develop its  
 5 sector budgets, MCE first determined the potential in each sector for the programs discussed in  
 6 this Business Plan, based on past experiences, feedback from implementation partners, industry  
 7 stakeholders, and an assessment of its service area. This potential informs MCE’s estimate of the  
 8 TSB that it expects each sector to achieve, which in turn determines the incentive and  
 9 implementation payments for many of MCE’s programs. For these types of programs, MCE uses

1 the potential energy savings or TSB to calculate the performance-based implementation budget  
2 and the incentive. MCE then adds in the costs that are not tied to performance, such as the  
3 programs' proportional share of administrative budget associated with policy support or data  
4 tracking and reporting. For programs that are not compensated based on TSB, MCE conducted a  
5 zero-based budgeting exercise to account for all the costs associated with program implementation  
6 activities. MCE also attributed its administrative labor costs to each program based on that  
7 program's proportional share of administrative support. Finally, MCE tallied up program costs for  
8 each sector.

9 **Table 6-10** below shows the budget and the percentage of MCE's total portfolio budget  
10 attributable to each sector of the eight-year Business Plan period. The percentages budgeted for  
11 each sector remain fixed across the four- and eight-year planning periods because MCE does not  
12 expect a ramp up in spending in any sector between the periods. This budget allocates more funds  
13 to the commercial and residential sectors (about 35 percent and 32 percent, respectively), and less  
14 to the industrial and cross-cutting sectors (about 12 percent and 10 percent, respectively) and very  
15 little to the agricultural sector (0.06 percent) given its small share of MCE service area's gas and  
16 electric load. This is appropriate as both the residential and commercial sectors in MCE's service  
17 area have unique characteristics that merit a greater focus in MCE's EE programming. As noted  
18 above, the residential sector makes up the highest number of MCE customer accounts (around 90  
19 percent of total customer accounts). The commercial and industrial sectors, on the other hand, have  
20 high energy usage and provide the greatest opportunities for achieving cost-effective savings.

1

**Table 6-10: Budget Distribution by Sector**

Budget Distribution by Sector (\$000)									
	Sector*								
Budget	Residential	Commercial	Industrial	Agricultural	Public	Cross-Cutting	EM&V	Portfolio Support	Total Budget
.....	.....	.....	.....	.....	...	.....	.....	.....	\$15,577
.....	.....	.....	.....	.....	...	.....	.....	.....	\$16,454
.....	.....	.....	.....	.....	...	.....	.....	.....	\$16,556
.....	.....	.....	.....	.....	...	.....	.....	.....	\$16,664
<b>Total (4-year)</b>	\$20,974	\$23,059	\$8,003	\$419	\$0	\$6,823	\$2,610	\$3,363	\$65,251
.....	.....	.....	.....	.....	...	.....	.....	.....	\$16,777
.....	.....	.....	.....	.....	...	.....	.....	.....	\$16,896
.....	.....	.....	.....	.....	...	.....	.....	.....	\$17,021
.....	.....	.....	.....	.....	...	.....	.....	.....	\$17,151
<b>Total (4-year)</b>	\$21,808	\$23,779	\$8,321	\$436	\$0	\$7,290	\$2,714	\$3,497	\$67,845
<b>Cumulative Total (8-Year)</b>	\$42,782	\$46,838	\$16,324	\$854	\$0	\$14,113	\$5,324	\$6,860	\$133,096

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### 3. Resource Acquisition

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MCE's Resource Acquisition segment includes a combination of new and existing programs that build on the successful components of MCE's current PY 2024-2027 EE portfolio.

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6

The Resource Acquisition segment focuses on maximizing TSB while maintaining overall portfolio cost-effectiveness.

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8

The Commission defines the Resource Acquisition segment to have "a primary purpose of, and a short-term ability to, deliver cost-effective avoided cost benefits to the electricity and natural

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10

gas systems."<sup>139</sup> The PUC defined "short-term" as covering only "the approved budget period for

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the portfolio[.]"<sup>140</sup> The PUC placed on this segment the burden of "mak[ing] up the bulk of savings

12

to achieve TSB goals."<sup>141</sup>

13

MCE anchors its Resource Acquisition segment in its successful Energy Management and

14

Flex Market programs, both of which are designed to reduce ratepayer risk, maximize cost-

15

effectiveness, and deliver meaningful value to customers. MCE will continue those programs in

<sup>139</sup> D.21-05-031, p. 14.

<sup>140</sup> *Id.*, p. 14.

<sup>141</sup> *Id.*, p. 14.

1 PY 2028-2031. Additionally, in this PY 2028-2031 Application, MCE proposes expanding its  
2 Resource Acquisition segment programs with two new residential programs that extend its existing  
3 services in the residential sector—(1) Home Energy Savings Resource program (“HES-R”) and  
4 (2) Multifamily Energy Savings Resource program (“MFES-R”).<sup>142</sup> These programs will build on  
5 MCE’s PYs 2024-2027 existing Equity segment offerings that are already delivering building  
6 decarbonization, electrification, and EE direct install measures. The HES-R and MFES-R  
7 programs focus on high-impact, cost-effective measures that deliver significant energy savings.  
8 By focusing on electrification measures that reduce the use of natural gas, the HES-R and MFES-  
9 R programs support progress on the state’s GHG emissions reductions and decarbonization goals.  
10 The HES-R and MFES-R programs are consistent with MCE’s portfolio strategies because they:

- 11 • Advance affordability and mitigate overall rate impacts;<sup>143</sup>
- 12 • Support electrification and building decarbonization efforts;<sup>144</sup> and
- 13 • Work to maximize TSB.<sup>145</sup>

14 The Resource Acquisition segment offering will deepen the benefits of MCE’s EE  
15 programs by strengthening the cost-effectiveness of measures and serving a more diverse range of  
16 customers.

17 MCE also plans to introduce a Low-GWP Refrigerant Accelerator program targeting small  
18 and medium grocery stores, restaurants, and other customers with refrigeration equipment. This  
19 program will encourage adoption of energy-efficient, low-GWP technologies and will leverage  
20 population NMEC and the Refrigerant Avoided Cost Calculator to deliver measurable and  
21 meaningful TSB.

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<sup>142</sup> The Commission approved the launch of MCE’s MFES-R program in its acceptance of MCE AL 91-E (with an effective date of January 20, 2026). See MCE AL 91-E, pp. 10-12 (program description).

<sup>143</sup> **Chapter 3: Portfolio Strategies**, Section 1.

<sup>144</sup> *Id.*, Section 3.

<sup>145</sup> *Id.*, Section 4.

1 Overall, MCE’s Resource Acquisition programs aim to foster a robust EE market in MCE’s  
2 service area, integrating efficiency and demand management measures to reduce peak demand and  
3 improve grid reliability. This will position MCE’s territory as an attractive place for customer and  
4 industry investment in EE. Throughout the Business Plan period, MCE will continue pursuing  
5 innovative, tailored strategies to maximize TSB from the Resource Acquisition segment. Specific  
6 strategies employed by the Resource Acquisition segment are detailed below.

7 *a. Continue to deploy successful programs*

8 MCE will continue the successful implementation of combined agricultural, industrial, and  
9 commercial programs under an overarching program umbrella, referred to as the MCE Energy  
10 Management program. MCE is consolidating its existing non-residential offerings (like the  
11 Agricultural and Industrial Resource (“AIR”) and Commercial Program) into this Energy  
12 Management program to offer a streamlined administration of successful measures and strategies  
13 for an improved customer experience under one program. This simplified administration approach  
14 reduces administrative complexities, reduces customer confusion, and improves implementation  
15 efficiencies. This approach allows customers to develop strong SEM projects, as well as custom  
16 and deemed projects.

17 In addition, MCE plans to continue its Flex Market programs, which have been successful  
18 Pay-For-Performance (“P4P”) programs, producing high-TSB projects. MCE’s Flex Market  
19 programs include residential, commercial, Peak Flex, and its integrated demand-side management  
20 (“IDSM”) program.<sup>146</sup> MCE believes that the opportunity for the residential Resource Acquisition  
21 program will continue to grow as other stackable incentives, such as the California Energy

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<sup>146</sup> MCE, Flex Market Programs, available at: <https://mcecleanenergy.org/flexmarket-efficiencymarkets/>  
(including Residential, Commercial, and Peak Flex).

1 Commission’s Home Efficiency Rebates (“HOMES”) P4P program, may become available during  
2 the Application period.<sup>147</sup>

3 *b. Expand existing programs*

4 MCE proposes expanding its existing Home Energy Savings and Multifamily Energy  
5 Savings Equity segment programs (described in **Chapter 3: Portfolio Strategies**) into  
6 complementary cost-effective program offerings in the Resource Acquisition segment. These  
7 HES-R and MFES-R programs will enable MCE to deliver greater benefits to a broader set of  
8 customers, as more funding will be available to drive cost-effective savings for moderate-income  
9 customers. By building on MCE’s existing programmatic infrastructure, relationships with  
10 implementers, and contractor network, this expansion should have immediate beneficial impacts  
11 to MCE’s customers and portfolio.

12 *c. Promote complementary opportunities – Any Open Door*

13 MCE staff and implementation partners will continue to find innovative and effective  
14 channels to promote its suite of EE programs and other complimentary programs that provide  
15 additional EE, decarbonization, affordability, or sustainability services to customers. This  
16 implementation of the “Any Open Door” policy is core to MCE’s mission. MCE staff will continue  
17 to identify ways to secure and incorporate additional external funding<sup>148</sup> into programs and projects  
18 from non-CPUC ratepayer funding sources to reduce project cost impacts to customers, offer  
19 deeper benefits and greater value to participating customers, and to improve the cost-effectiveness  
20 of projects. MCE will continue to staff its cross-team collaboration—its Emerging Opportunities

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<sup>147</sup> CEC, Solicitation Workshop HOMES P4P, August 8, 2025, available at: <https://www.energy.ca.gov/event/workshop/2025-08/solicitation-concept-workshop-home-efficiency-rebates-homes-pay-performance>.

<sup>148</sup> Defined as all non-CPUC-ratepayer funds. For example, external funding sources may include, but are not limited to state general funds, federal funds, foundation funds, MCE’s self-funds, etc.

1 Team—to identify and apply for external funds to layer into EE portfolio programs. MCE’s  
2 Emerging Opportunities team meets monthly and on ad hoc bases to identify, assess, and apply to  
3 relevant external funding opportunities. See additional discussion in **Chapter 8: Stakeholder**  
4 **Engagement.**

5 *d. Employ varied delivery channels*

6 MCE will deploy a variety of delivery models in its Resource Acquisition segment to meet  
7 customer needs, preferences, and specific circumstances across its service area and sector needs.  
8 This will include both the aggregator-led Flex Market model<sup>149</sup> (where project developers engage  
9 customers and provide EE services directly) and the direct install program model for the Home  
10 Energy Savings-Resource and Multifamily Energy Savings-Resource programs (where the  
11 implementer provides wrap-around services to customers at low or no-cost).

12 *e. Facilitate financing solutions*

13 MCE programs will support customers in accessing beneficial financing opportunities.  
14 This includes promoting available financing pathways, partnering with financial institutions such  
15 as National Energy Improvement Fund to provide direct financing solutions to customers,  
16 facilitating access to PG&E’s OBF programs,<sup>150</sup> and other opportunities available during the  
17 portfolio cycle.

18 *f. Maintain cost-effectiveness*

19 MCE’s core strategy to maintain portfolio level cost-effectiveness is to align program costs  
20 with claimable TSB wherever possible. This approach relies heavily on MCE’s NMEC programs,

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<sup>149</sup> MCE proposes a Residential Flex Market, Commercial Flex Market and IDSMS Peak Flex Market programs.

<sup>150</sup> See e.g. PG&E, On-Bill Financing Program, available at: [https://www.pge.com/assets/pge/docs/save-energy-and-money/energy-savings-programs/fs\\_obf.pdf](https://www.pge.com/assets/pge/docs/save-energy-and-money/energy-savings-programs/fs_obf.pdf).

1 which have proven effective in past years and continue to evolve based on performance and  
2 customer feedback.

3 Another strategy to maintain cost-effectiveness is MCE’s use of P4P measures. P4P ties an  
4 implementor or contractor’s compensation in a program directly to a project’s actual  
5 performance.<sup>151</sup> This aligns incentives and encourages implementors or contractors to focus on  
6 high saving projects which result in cost-effective programs.

7 *g. Maximize Total System Benefits*

8  
9 MCE will select experienced program implementers with the expertise required to deliver  
10 strong results, develop effective outreach strategies, and design appropriate measure packages.  
11 MCE will leverage advanced data analytics to identify customer participants with the greatest  
12 potential for energy savings and successful projects across CPUC EE metrics. MCE will further  
13 expand SEM programs that provide high-TSB measures and low- to no-cost EE opportunities to  
14 ensure its portfolio TSB.

15 *h. Incorporate Demand Side Management (DSM) elements*

16 Incorporating DSM measures into MCE’s EE programs supports maximizing TSB while  
17 also strengthening grid reliability and increasing the utilization of renewable energy in alignment  
18 with California’s climate targets as discussed in **Chapter 3: Portfolio Strategies**.<sup>152</sup> EE programs  
19 can leverage traditional load flexibility initiatives and create additional value for customers, project  
20 developers, and the grid.

21 To advance this integration, MCE proposes a cross-functional program that delivers load  
22 flexibility through IDSM—the Peak Flex Market program. MCE proposed its IDSM program in

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<sup>151</sup> Guidehouse, Meeting the challenge: How pay-for-performance programs can solve the problem of diminishing savings, (2021), available at: <https://guidehouse.com/insights/communities-energy-infrastructure/2021/pay-for-performance-programs>.

<sup>152</sup> See CEC, SB 100, available at: <https://www.energy.ca.gov/sb100>.

1 MCE Advice Letter (“AL”) 74-E. MCE proposed a comprehensive strategy that integrates demand  
2 response and load shifting for both residential and commercial customers year-round.<sup>153</sup> The  
3 Commission approved MCE’s Peak Flex Market program and MCE AL 74-E in Resolution E-  
4 5387.<sup>154</sup> MCE’s Peak Flex Market program will optimize the use of existing equipment or leverage  
5 new equipment installed with external funding. MCE will align program payments with verifiable  
6 load reductions valued through the Avoided Cost Calculator.<sup>155</sup> This incentive signal will drive  
7 impacts to the most valuable grid times—across the summer’s peak hours. This approach further  
8 strengthens the value proposition for DSM, and delivers rewarding projects to MCE customers  
9 and implementors.

10 *i. Promote low-GWP refrigerants*

11 Shifting away from the use of high-GWP refrigerants to low-GWP refrigerants through EE  
12 programs presents a unique and valuable opportunity to advance progress on California’s climate,  
13 decarbonization, and EE goals. Senate Bill 1013 (Lara, 2018) specifically requires the Commission  
14 to develop “a strategy for including low-GWP refrigerants in equipment funded by the energy  
15 efficiency programs overseen by the Public Utilities Commission.”<sup>156</sup> Following Senate Bill 1013,  
16 Decision (“D.”) 21-05-031 directs PAs to develop “[p]rograms that encourage the use of lower-  
17 GWP refrigerants than current ‘standard practice’ or regulation.”<sup>157</sup> The Decision also  
18 “encourages the program administrators to seek out all cost-effective opportunities to  
19 incorporate low-GWP measures in the energy efficiency portfolios.”<sup>158</sup> MCE plans to promote the  
20 installation of low- and ultra-low-GWP refrigerants throughout its portfolio.

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<sup>153</sup> MCE AL 74-E: Attachment A (program proposal and program details).

<sup>154</sup> CPUC, Resolution E-5387 (effective date of September 18, 2025).

<sup>155</sup> CPUC, Avoided Cost Calculator, available at: <https://www.cpuc.ca.gov/dercosteffectiveness>.

<sup>156</sup> SB 1013 sec. 2 (Lara, 2018).

<sup>157</sup> D.21-05-031, p. 53.

<sup>158</sup> *Id.*, p. 60.

1 MCE will align its programs with other agencies’ complementary efforts, policies, and  
2 regulations.<sup>159</sup> This includes collaboration with the California Air Resources Board’s (“CARB”)  
3 Fluorinated Gas Reduction Incentive Program (“FRIP”),<sup>160</sup> the BayREN Refrigeration  
4 Replacement Program (“BRRR”),<sup>161</sup> and the statewide Technology and Equipment for Clean  
5 Heating (“TECH”) program.<sup>162</sup> MCE will also seek to collaborate with other utilities, CCAs, and  
6 other complementary regional agency programs.

7 MCE also proposes launching a new program which addresses a gap in the current  
8 programmatic landscape. This program would focus on the service of small and medium-sized  
9 businesses which operate refrigeration systems outside of the scope of related CARB  
10 regulations.<sup>163</sup> This program will leverage a performance-based program framework to pay  
11 incentives that align with the TSB of refrigerant conversion projects and the associated EE benefits  
12 of a whole building approach.

13 *j. Grow behavioral and retro-commissioning programming*

14 MCE will continue to prioritize low-cost, high-TSB programming by leveraging  
15 Behavioral and Retro-commissioning measures in its Resource Acquisition segment programs.

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<sup>159</sup> See further discussion in **Chapter 7: Portfolio Coordination**.

<sup>160</sup> CARB. FRIP, available at: <https://ww2.arb.ca.gov/our-work/programs/FRIP> (“Established by Senate Bill 1013, the Fluorinated-gas (F-gas) Reduction Incentive Program (FRIP) has received a total of \$66 million to promote the adoption of climate-friendly, low-GWP refrigerant technologies to help California meet Senate Bill 1383 F-gas reduction targets and reach carbon neutrality.”).

<sup>161</sup> BayREN, BRRR, available at: <https://www.bayren.org/chill>. (“BayREN Refrigerant Replacement (BRRR) Program helps Bay Area food and floral businesses reduce greenhouse gas emissions by swapping out harmful refrigerants for more environmentally-friendly alternatives. Additionally, the program installs energy efficient equipment that will help lower utility bills. All this at low cost to the businesses.”).

<sup>162</sup> See e.g. Energy Solutions, TECH Commercial Incentives, available at: <https://techcleanca.com/incentives/commercial/> (describing low-GWP kicker).

<sup>163</sup> CARB, Refrigerant Management Program, available at: <https://ww2.arb.ca.gov/our-work/programs/refrigerant-management-program> (“Stationary refrigeration facilities with more than 50 pounds of high-GWP refrigerant in the largest on-site refrigeration system must register with the RMP. Those with at least 200 pounds of high-GWP refrigerant in the largest system have annual reporting and additional duties.”).

1 MCE will strategically expand EE offerings for its industrial participants in the existing PY 2024-  
2 2027 SEM program. MCE will build on strong momentum in its industrial sector SEM  
3 programming, leverage the growing trusted relationships, existing administrative infrastructure  
4 and rising energy knowledge base of industrial customer participants for potentially large-scale  
5 projects.

6 MCE will also explore new behavioral subprogram delivery pathways to focus on small  
7 and medium-sized commercial businesses. While drawing on core principles of SEM, the concept  
8 is to expand services to employ a medium-touch approach, delivering educational modules and  
9 program services tailored to the needs of these small and medium-sized commercial customers.  
10 Currently MCE is conducting a study which includes a detailed market assessment, literature  
11 review, measurement and verification analysis, and draft program design developed by an EE  
12 consultant.

13 *k. Utilize customer data analytics*

14 The MCE Data and Analytics team recently created a customer data analytics platform,  
15 rooted in CALTRACK methods,<sup>164</sup> which enables MCE to identify customers who could benefit  
16 from specific EE programs and program offerings. The platform utilizes Advanced Metering  
17 Infrastructure (“AMI”) data and creates a load profile for each customer. The tool includes several  
18 demographic and usage filters, along with analytic parameters to create reports. This tool will be  
19 integral in the refinement of program design, the identification of appropriate marketing education  
20 and outreach activities, maximizing TSB, and ongoing M&V of customers.

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<sup>164</sup> CalTRACK, CalTRACK Methods, available at:  
<https://docs.caltrack.org/en/latest/methods.html> (“CalTRACK methods are developed in an open and transparent stakeholder process that uses empirical testing to define replicable methods for calculating normalized metered energy consumption using either monthly or interval data from an existing conditions baseline.”)

1 *l. Sectors Targeted by Above Strategies*

2 These Resource Acquisition segment strategies will be implemented throughout MCE’s  
 3 program portfolio, but many of them have specific market sector focus. The table below illustrates  
 4 the appropriate strategies that will be deployed by market sector.

5 **Figure 6-1: Strategies by Sector<sup>165</sup>**

Resource Acquisition Segment Strategy	Residential	Commercial	Industrial	Agricultural
Continue to deploy successful programs	X	X	X	X
Expand existing programs	X	X		
Promote additional opportunities	X	X	X	X
Employ varied delivery channels	X	X	X	X
Facilitate financing solutions	X	X	X	X
Maintain cost effectiveness	X	X	X	X
Maximize Total System Benefits	X	X	X	X
Incorporate Demand Side Management elements	X	X	X	X
Promote low-GWP refrigerants		X	X	
Grow behavioral and retro-commissioning programming		X	X	
Utilize customer data analytics	X	X	X	X

6 The MCE Resource Acquisition portfolio serves customers in the agricultural, commercial,  
 7 industrial, and residential sectors. MCE proposes to continue running programs in these sectors  
 8 throughout the eight-year Business Plan period, with no expansion or withdrawal of sectors served.

9 In its Resource Acquisition segment, MCE forecasts serving 1,150 single-family homes  
 10 and zero manufactured homes in PYs 2028-2031. MCE additionally forecasts serving 2,300 single-  
 11 family homes and zero manufactured homes in 2028-2035. In this Application, MCE proposes an  
 12 EM&V study to remove EE program barriers for manufactured homes customers as discussed in  
 13 **Chapter 9: Evaluation, Measurement and Verification.** MCE plans to use information learned

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<sup>165</sup> While the subsections *supra* describing these strategies included relevant highlights of these strategies in action, this Figure reflects all sectors where MCE deploys the above-discussed strategies.

1 through its manufactured homes EM&V study to serve those customers through its portfolio  
2 programs.

3 *m. Sectors Targeted for SEM, NMEC, Deemed, Custom Measurement, Direct Install -*  
4 *Evaluation Tools for Sectors*

5 MCE’s core Resource Acquisition programs serve the full range of residential and non-  
6 residential (commercial, industrial, agricultural) sectors. As **Figure 1** demonstrates, these  
7 programs feature performance-based incentives and leverage NMEC, SEM, as well as custom and  
8 deemed approaches to determine impacts.

9 **Figure 6-2: Methods of Determining Impact by Sector**

Sector	SEM	NMEC	Custom	Deemed	Direct Install
Residential		X	X	X	X
Commercial	X	X	X	X	
Industrial	X	X	X	X	
Agricultural			X	X	

10 General SEM is well suited to the commercial and industrial sectors because businesses  
11 benefit from ongoing operational improvements that drive sustained energy savings.<sup>166</sup> These  
12 sectors greatly align with SEM because it mirrors how businesses already approach operational  
13 efficiency. There is not yet a clear pathway for Residential SEM due to ongoing challenges in  
14 designing cost-effective, scalable approaches for this sector because there are so many diverse  
15 customers with comparatively smaller energy usages.

16 NMEC’s “pay-for-performance” aligns with the residential, commercial, and industrial  
17 sectors where building loads are predictable and measurable. However, in the agricultural sector,  
18 loads are inherently variable and difficult to normalize due to seasonal cycles and weather

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<sup>166</sup> “Energy Management Proves Cost Effective in Industrial and Commercial Facilities.” American Council for Energy-Efficient Economy (ACEEE), 2021, available at: <https://www.aceee.org/press-release/2021/05/energy-management-proves-cost-effective-industrial-and-commercial-facilities>.

1 dependency. Also, MCE’s service territory does not include a sufficient agricultural customer base  
2 and energy load to support the program at scale.

3 Custom measurement and verification serves specific project types that yield greater  
4 savings potential than standardized approaches. However, this method carries a higher  
5 administrative burden, making it most appropriate for larger or more complex projects where the  
6 potential savings justify the additional oversight and documentation costs.<sup>167</sup>

7 Deemed measures offer a comparatively reduced administrative burden and lower  
8 implementation costs, making them a more accessible and scalable method.<sup>168</sup> They also align with  
9 state-level goals and standardized reporting frameworks, supporting efficient program delivery  
10 without the verification complexity of custom pathways.

11 Direct install programming targets MCE’s residential sector, which is large enough to  
12 achieve economies of scale.<sup>169</sup> However, direct install is not a strong fit for MCE’s non-residential  
13 sector because customer counts are lower and the economies of scale that make residential direct  
14 install cost-effective are harder to achieve.

15 The Commercial and Residential Flex Market programs serve their respective sectors by  
16 leveraging population-based NMEC measurement and verification (“M&V”) processes. Both  
17 deliver performance-based incentives to aggregators through a midstream program model,<sup>170</sup>  
18 enabling them to develop EE projects that simultaneously optimize grid value and reflect the actual

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<sup>167</sup> California Technical Forum, White Paper: Energy Efficiency Measure Classification, 2020, available at: <https://static1.squarespace.com/static/53c96e16e4b003bdba4f4fee/t/64c193e6c496ce49df80f4c1/1690407911676/Cal+TF+White+Paper+EE+Measure+Classification+Final.pdf>, p. 2.

<sup>168</sup> *Id.*

<sup>169</sup> ACEEE, Keys to the House: Unlocking Residential Savings with Program Models for Home Energy Upgrades, 2016, available at: [https://www.aceee.org/files/proceedings/2016/data/papers/2\\_693.pdf](https://www.aceee.org/files/proceedings/2016/data/papers/2_693.pdf), p. 2-4.

<sup>170</sup> “In a midstream program design, the primary points of market engagement are the midstream market actors: distributors and contractors.” ACEEE, Swimming to Midstream: New Residential HVAC Program Models and Tools (2016), available at [https://www.aceee.org/files/proceedings/2016/data/papers/7\\_888.pdf](https://www.aceee.org/files/proceedings/2016/data/papers/7_888.pdf).

1 impacts of observed usage. MCE’s experience with these programs demonstrates consistent, strong  
2 cost-effective results with no risk to ratepayers (because payment is tied directly to programmatic  
3 performance). MCE will build on its success with existing programmatic offerings and continue  
4 to refine and improve them based on performance, Commission guidance, and customer feedback.

5 Building on this foundation, MCE is also launching a new program, the Low-GWP  
6 Refrigerant Accelerator program, focused on accelerating the adoption of low-GWP technologies.  
7 This initiative will incorporate population NMEC M&V and quantify TSB benefits from  
8 refrigerant gas reductions using the Refrigerant Avoided Cost Calculator and Fuel Substitution  
9 Calculator (“RACC-FSC”).

10 In addition, MCE will continue to provide deemed and custom opportunities through its  
11 Energy Management, MFES-R, and HES-R programs. These approaches simplify and streamline  
12 program management and allow for clear incentive payments in cases where population NMEC  
13 methods are not appropriate.

#### 14 **4. Market Support**

15 MCE proposes to continue its single comprehensive existing program under the Market  
16 Support segment—the Green Workforce Pathways program (“GWPP”). The GWPP is a workforce  
17 education and training program that will continue to support the electrification workforce, job  
18 quality, and California’s decarbonization goals by:

- 19 1. Increasing the capacity of the workforce to install and maintain advanced EE and  
20 electrification measures; and
- 21 2. Creating opportunities for sustainable, quality employment in the emerging  
22 electrification industry.

23 GWPP provides individualized job seeker support towards a career in the energy industry,  
24 including interview and resume coaching, connections with local industry experts, and paid  
25 training opportunities with local contractors. The program also identifies and removes barriers

1 faced by contractors seeking to upskill their staff and grow their business by providing onboarding  
2 support, personalized education and training, and stipends to defray costs of training. This program  
3 serves to fulfill the following priorities and principles:

- 4 • Support development of workforce that advances building electrification while  
5 supporting progress on statewide and regional EE and GHG emissions reduction  
6 goals.
- 7 • Support expanding the decarbonization economy by building and strengthening  
8 targeted job seeker and contractor relationships.
- 9 • Support enhanced job quality.
- 10 • Build strategic partnerships between MCE and electrification industry  
11 professionals that can reduce electrification costs and shift customer behavior  
12 toward decarbonization and EE.
- 13 • Grow and strengthen regional coalitions that align municipalities, community-  
14 based organizations (“CBO”), CCAs and other Load Serving Entities (“LSE”) on  
15 advancing decarbonization.

#### 16 **4.1 Sub-Objectives**

17 MCE’s comprehensive GWPP pursues each of the five sub-objectives in the Market  
18 Support segment. The success of these sub-objectives builds on one another and works in tandem  
19 to support the main goals of MCE’s Market Support segment efforts.

20 ***Sub-Objective #1: Demand. Build, enable, and maintain demand for energy efficient***  
21 ***products and services in all sectors and industries to ensure interest in, knowledge of***  
22 ***benefits of, or awareness of how to obtain energy efficiency products and/or services.***

23 MCE’s GWPP advances demand for EE and electrification technologies by dismantling  
24 barriers that prevent these technologies from reaching cost parity with legacy, higher GHG-  
25 emitting alternatives and by providing related education to contractors. Workforce availability and  
26 readiness remain a key barrier to electrification projects and building decarbonization in California

1 more broadly.<sup>171</sup> The Bay Area Air District (“BAAD”) found residential contractors experience  
2 numerous barriers to participating in electrification focused programs or learning more about  
3 newer electrification technologies, specifically including: lack of time; constrained administrative  
4 resources; cash flow financing for rebate programs requirements; eligibility or qualifications  
5 requirements; and the cost of lost wages when attending training.<sup>172</sup> The GWPP directly supports  
6 contractors by offering administrative support, assistance navigating existing rebate offerings, and  
7 stipends for employees to attend electrification trainings. MCE provides ongoing education for the  
8 workforce, including contractors and job seekers, and collaborates with CBOs, municipalities, and  
9 fellow CCAs to deliver accessible information on the benefits of EE and electrification. Program  
10 offerings include technical workshops, community outreach events, and paid training opportunities  
11 focusing on heat pumps and other emerging electrification technologies.

12 The GWPP also aims to build broader public understanding of and confidence in EE and  
13 electrification technologies as well. MCE’s education of contractors and employees positions those  
14 contractors and employees to share relevant information with customers directly. As regulatory  
15 and market forces bolster installation demand, MCE’s GWPP remains positioned to supply a well-  
16 trained workforce capable of meeting these growing needs.

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<sup>171</sup> UCLA Luskin Center for Innovation and Inclusive Economies, CALIFORNIA BUILDING DECARBONIZATION WORKFORCE NEEDS AND RECOMMENDATIONS, November 2019, available at:

[https://innovation.luskin.ucla.edu/wp-content/uploads/2019/11/California\\_Building\\_Decarbonization-Executive\\_Summary-1.pdf](https://innovation.luskin.ucla.edu/wp-content/uploads/2019/11/California_Building_Decarbonization-Executive_Summary-1.pdf).

<sup>172</sup> BAAD, STAFF REPORT Informational Update Regarding Regulation 9, Rule 6: Nitrogen Oxides Emissions from Natural Gas-Fired Water Heaters less than 75,000 BTU/hr, December 2024, available at: [https://www.baaqmd.gov/~media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/20241127\\_board-report-dec-2024-pdf.pdf?rev=f9b89cc7ceb54588b5c505d6f20635e3&sc\\_lang=en](https://www.baaqmd.gov/~media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/20241127_board-report-dec-2024-pdf.pdf?rev=f9b89cc7ceb54588b5c505d6f20635e3&sc_lang=en), pp. 43-44.

1           ***Sub-Objective #2: Supply: Build, enable, and maintain supply chains to increase the***  
2           ***capability and motivation of market actors to supply energy efficient products and/or***  
3           ***services, and to increase the ability, capability, and motivation of market actors to***  
4           ***perform/ensure quality installations that optimize energy efficiency savings.***

5           MCE’s GWPP will support the success of its residential EE and electrification program  
6 portfolio with complementary workforce development and training. The access to education and  
7 training provided by the GWPP will support MCE’s EE portfolio objectives.

8           GWPP is designed to leverage industry and stakeholder expertise by funding training  
9 opportunities for contractors and their staff to provide long-term, relevant support and education  
10 for EE and electrification contractors. Contractors can request stipends from MCE to cover the  
11 cost of attending related industry trainings. MCE’s technical experts review each request, along  
12 with the training curriculum. If they determine that the training has appropriate scope and depth,  
13 the request is approved. Funding can cover both training fees and lost staff hours, helping  
14 contractors recover costs while investing in their team’s continuing education. In addition, GWPP  
15 offers hands-on technical training in the field as part of contractor onboarding to the program.

16           GWPP promotes workplace standards as an integral component of its Market Support  
17 program through its contracting<sup>173</sup> and program administration. These actions will support high-  
18 road labor standards, job quality, and best practices for local and statewide employment.  
19 Specifically, MCE utilizes the Residential Building Decarbonization Job Quality & Labor  
20 Standards Toolkit (“Toolkit”) published by Rising Sun Center for Opportunity and the Bay Area  
21 Residential Decarbonization High Road Training Partnership (“H RTP”) in its administration of the

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<sup>173</sup> MCE outlines workforce standards requirements in each related contract it enters with its EE program implementers. MCE’s EE program implementers must all agree to MCE’s Terms and Conditions contract terms, which includes minimum workforce/workplace standards in compliance with applicable state, federal, local laws, regulations, ordinances and resolutions.

1 GWPP.<sup>174</sup> The Toolkit is a resource designed to help program administrators advance high-road  
2 labor standards, in publicly funded or subsidized residential building decarbonization programs in  
3 the Bay Area.

4 Labor standards include, but are not limited to:

- 5 • Fair wages and benefits, including wages, healthcare, and retirement;
- 6 • Regional and targeted hire;
- 7 • Compliance and accountability; and
- 8 • Training, certification, and career advancement.<sup>175</sup>

9 MCE supports high-road employment by ensuring that participating GWPP contractors  
10 demonstrate their commitment to these standards. If contractors do not meet minimum high road  
11 standards, MCE encourages contractors to work toward achievement and to re-apply when they  
12 offer sufficient benefits to their employees. MCE’s GWPP provides Electrification Training  
13 stipends to allow contractors and their staff to advance their technical electrification skills as well  
14 as soft skills. Participants in GWPP can apply to receive funds for any training that fits their unique  
15 needs as a contractor. MCE reviews and approves the training request if it is substantive and  
16 promotes safety practices, sales, home performance upgrades, electrical, plumbing, or any field  
17 that fits within the electrification industry’s needs.

18 Within the GWPP, MCE partners with local and regional community-based organizations  
19 (“CBOs”) to lead training for HVAC, plumbing, electrical and general contractors with an  
20 emphasis on recruiting Minority, Women, and Disadvantaged Business Enterprises (“MWDBE”).

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<sup>174</sup> Rising Sun and Bay Area Building Decarbonization H RTP, H RTP Residential Building Decarbonization Summary, available at: <https://risingsunopp.org/wp-content/uploads/Rising-Sun-Bay-Area-Residential-Building-Decarb-H RTP-Summary.pdf>.

Job Quality & Labor Standards Toolkit, December 2024 available at: <https://risingsunopp.org/wp-content/uploads/H RTP-Res-Decarb-Job-Quality-and-Labor-Standards-Toolkit-v2.pdf>.

<sup>175</sup> Rising Sun and Bay Area Building Decarbonization H RTP, Job Quality & Labor Standards Toolkit, December 2024, at 4, available at: <https://risingsunopp.org/wp-content/uploads/H RTP-Res-Decarb-Job-Quality-and-Labor-Standards-Toolkit-v2.pdf>.

1 MCE uses H RTP labor standards in the GWPP and they will continue to inform recruitment, hiring  
2 and vetting of new industry workforce staff into skilled trades, focusing on recruitment from hard-  
3 to-reach and underserved communities.

4 ***Sub-Objective #3: Partnerships: Build, enable, and maintain partnerships with***  
5 ***consumers, governments, advocates, contractors, suppliers, manufacturers, community-***  
6 ***based organizations and/or other entities to obtain delivery and/or funding efficiencies***  
7 ***for energy efficiency products and/or services and added value for partners.***

8 MCE’s GWPP will continue to build, enable, and maintain partnerships with job seekers,  
9 EE and electrification contractors, and the communities MCE serves. These partnerships help  
10 ensure these Market Support activities are accomplishing program goals and providing value to  
11 participants, the designated market, and ratepayers.

12 For example, engaging EE and electrification contractors is critical to the success of GWPP.  
13 MCE’s GWPP will leverage existing relationships to build and maintain robust partnerships with  
14 local EE and electrification contractors. MCE will offer these contractors regular opportunities to  
15 give feedback and strengthen communication with implementers, using email, phone, and in-  
16 person sessions in both individual and group settings. MCE will meet these partners where they  
17 are, providing contractors with skills training at their job site, using existing training materials and  
18 new resources developed to fill gaps in existing educational materials. Lastly, MCE will encourage  
19 contractors to seek out training tailored to their unique needs by offering stipends for contractors  
20 to cover the cost of attending third-party training.

21 Job seekers are also important partners to the success of GWPP. To engage these job  
22 seekers, the GWPP provides wrap around services that are critical for job seekers in their search  
23 for high-roads jobs. This includes resume-writing and interview preparation assistance, customer  
24 engagement training, funds for work clothing, transportation support, workplace expectations  
25 training, and support tailored to each participant’s needs and life circumstances. MCE values the

1 information these job seeker partners bring to and share with MCE through the GWPP. The GWPP  
2 gathers regular feedback from participants and uses that feedback to improve program design and  
3 implementation. Some examples of past program improvements informed by participant feedback  
4 include adding a \$300 stipend for job seekers to buy work equipment, and a bonus for completing  
5 the 160 hours of paid work.

6 CBOs are critical partners to the success of the GWPP—both MCE and these CBOs benefit  
7 from the information, expertise, relationships, and assistance all parties bring to the relationships.  
8 For example, the GWPP provides in-depth and specific information about the contractor and job  
9 experience to CBOs to inform those CBOs’ own program design decisions. MCE, for its part, uses  
10 feedback from CBOs to inform program design decisions. For example, MCE’s use of the High  
11 Road Training Partnership Toolkit<sup>176</sup> labor standards within our contractor vetting process was in  
12 direct response to community feedback. MCE partners with local CBOs to recruit new  
13 participation in the GWPP, strengthening MCE’s existing relationships with participants of the  
14 program and across MCE’s service area. MCE has found that these CBOs (and some workforce  
15 development providers)<sup>177</sup> have long-standing, trusted relationships with disadvantaged, hard-to-  
16 reach, and underserved communities. These relationships help MCE better target disadvantaged  
17 workers for GWPP’s paid training component.

18 In August 2025, MCE held our first Electrification Contractor Power Breakfast for  
19 residential contractors at our centrally located Concord office. MCE presented the 25 regional  
20 contractor participants with updates and questions about our customer programs and offerings, with

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<sup>176</sup> Rising Sun, Residential Building Decarbonization Job Quality & Labor Standards Toolkit, December 2024, available at: <https://risingsunopp.org/wp-content/uploads/H RTP-Res-Decarb-Job-Quality-and-Labor-Standards-Toolkit-v2.pdf>.

<sup>177</sup> See, e.g., Marin Builders Association, Efficiency First, the Bay Area Residential Decarbonization High Road Training Partnership.

1 the goal of learning what is working and what is not for contractors and their customers. As a result  
2 of the program, MCE has made program improvements like refreshing the incentive amounts and  
3 increasing contractor engagement in our Flex Market programs. This has successfully grown our  
4 GWPP, and MCE will continue to engage contractors through meaningful engagement in these  
5 feedback/interactive sessions. The next commercial contractor breakfast is planned for March  
6 2026.

7 ***Sub-Objective #4: Innovation and Accessibility: Build, enable, and maintain innovation***  
8 ***and accessibility in technologies, approaches, and services development to increase***  
9 ***value, decrease costs, increase energy efficiency, and/or increase scale of and/or access***  
10 ***to emerging or existing energy efficient products and/or services.***

11 The EE and electrification sectors face serious workforce challenges that can slow growth  
12 and challenge cost-effective program administration. Barriers include limited access to diverse  
13 training for all skill levels, contractor time constraints that reduce training participation,  
14 insufficient instruction on new technologies, low career awareness among job seekers, and  
15 difficulties new workers face in securing and keeping jobs.<sup>178</sup> Together, these barriers limit  
16 California’s ability to scale and deliver effective EE and electrification programs.

17 The GWPP aims to build a continuously developing workforce ecosystem through  
18 stackable, sector-specific training that serves all skill levels. This approach will support  
19 strengthening and expanding a highly skilled workforce able to adopt and apply new technologies  
20 quickly and effectively. By raising career awareness and offering soft skills training and financial  
21 support, the GWPP will reduce known workforce gaps, improve retention, and help the sector meet  
22 rising demand and achieve state energy goals.

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<sup>178</sup> BAAD, STAFF REPORT Informational Update Regarding Regulation 9, Rule 6: Nitrogen Oxides Emissions from Natural Gas-Fired Water Heaters less than 75,000 BTU/hr, December 2024, available at: [https://www.baaqmd.gov/~/media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/20241127\\_board-report-dec-2024-pdf.pdf?rev=f9b89cc7ceb54588b5c505d6f20635e3&sc\\_lang=en](https://www.baaqmd.gov/~/media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/20241127_board-report-dec-2024-pdf.pdf?rev=f9b89cc7ceb54588b5c505d6f20635e3&sc_lang=en), pp. 42-44.

1        ***Sub-Objective #5: Access to Capital: Build, enable, and maintain greater, broader,***  
2        ***and/or more equitable access to capital and program coordination to increase***  
3        ***affordability of and investment in energy efficient projects, products, or services.***

4        The GWPP expands contractor access to the rapidly growing electrification industry,  
5        supporting business growth while building a robust local contractor network. A stronger network  
6        of qualified contractors increases customer access to funding through MCE programs and ensures  
7        more equitable pathways to invest in electrification upgrades.

8        Through training, education, and on-the-job support, the GWPP prepares contractors and  
9        job seekers to deliver advanced EE and electrification projects and to effectively communicate the  
10       value of these upgrades to customers. By offsetting initial hiring and training costs, MCE helps  
11       contractors grow their businesses while also supporting job seekers with stipends and career  
12       placement in long-term, high-quality roles.

13       Partnerships with CBOs, municipalities, distributors, manufacturers, and industry groups  
14       ensure that these opportunities are inclusive and accessible, prioritizing equity and fair  
15       employment. Together, these strategies expand the pool of skilled contractors, lower barriers for  
16       customers to access capital and incentives, and accelerate the transition to electrified homes and  
17       businesses.

#### 18                    **4.2       Sectors Served under the Market Support Segment**

19       MCE Market Support segment activities aim to strengthen the residential EE and  
20       electrification workforce, with a focus on professionals serving both single-family and multifamily  
21       homes.

22       The GWPP’s program goals will expand for 2028-2031. Specifically, GWPP will:

- 23                • Support job readiness by providing wrap-around services and holistic educational  
24                opportunities to approximately 60 participants per year (240 for the full application  
25                period). These services include job coaching, resume development, interview

1 preparation, and soft-skills training designed to prepare candidates for careers in  
2 the energy sector.

- 3 • Facilitate job placements for 13 new job seekers per year (52 for the full application  
4 period) into long-term, industry-based careers. Through partnership development  
5 and targeted outreach, GWPP actively connects job seekers with qualified  
6 employers, ensuring pathways to stable and meaningful employment in green  
7 industries.
- 8 • Deliver specialized education and training opportunities on emerging and advanced  
9 technologies—such as heat pumps, smart thermostats, and energy management  
10 systems—as well as on sales and administrative roles within the electrification  
11 industry to approximately 13 participating businesses per year (approximately 52  
12 for the full application period). This ensures that the supply side of the market  
13 remains skilled, informed, and capable of supporting customer demand effectively.

14 The program’s ongoing expansion will include increased efforts to serve manufactured  
15 home sectors as a growing focus area, recognizing the unique needs and opportunities within this  
16 housing segment and its contribution to residential energy consumption. Manufactured homes  
17 have been historically underserved by California programs and face unique barriers to  
18 decarbonization including, but not limited to, low electrical capacity, space constraints,  
19 remediation needs, and regulatory complexities.<sup>179</sup> This strategic expansion aims to enhance  
20 market transformation by equipping a broader range of energy professionals with critical skills  
21 tailored to the diversity of residential building types served by MCE.

22 In its Market Support segment, MCE serves contractors and job seekers, therefore we do  
23 not forecast directly serving any single-family or manufactured homes in this segment throughout  
24 the eight-year portfolio. MCE will look for opportunities to educate our participating contractors  
25 on how to better serve manufactured homes. Additionally, in this Application, MCE proposes an  
26 EM&V study to remove EE program barriers for manufactured homes customers as discussed in

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<sup>179</sup> CEC, *Equitable Building Decarbonization Program Guidelines* (2023), available at: <https://www.energy.ca.gov/publications/2023/equitable-building-decarbonization-direct-install-program-guidelines>, p. 13; Assembly Bill 806 sections 1-2.(Connolly, 2025) (removing legal restrictions to cooling systems in manufactured homes and mobilehome parks including electric heat pump cooling systems).

1 **Chapter 9: Evaluation, Measurement and Verification.** MCE plans to use information learned  
2 through its manufactured homes EM&V study to serve those customers through its portfolio  
3 programs.

#### 4 **5. Equity**

5 Advancing energy equity is key to MCE’s mission and vision.<sup>180</sup> Energy equity is central  
6 to how MCE approaches all EE program design and delivery for its increasingly diverse and  
7 growing customer base. MCE is fully committed advancing energy equity through its Equity  
8 segment programs as discussed below. In this Application, MCE committed the maximum budget  
9 allowed for Equity segment and Market Support programs.<sup>181</sup> Further, MCE requests additional  
10 funds for Equity segment programs more proportionate to its Equity segment customers in

### 11 **Chapter 11: Policy Recommendations.**

#### 12 **5.1 MCE’s Equity Customers**

13 In this Application, MCE refers to all categories of customers eligible for its proposed  
14 Equity segment programs using the umbrella “Equity Customers.” MCE defines “Equity  
15 Customers” as residential customers and businesses in what the Commission defines as  
16 Environmental and Social Justice (“ESJ”) communities. The Commission defined ESJ  
17 communities for the purposes of its policy and programs as those that meet one or more of the  
18 following criteria:

- 19 • “Disadvantaged Communities, defined as census tracts that score in the top 25% of  
20 CalEnviroScreen 3.0, along with those that score within the highest 5% of CalEnviroScreen  
21 3.0’s Pollution Burden but do not receive an overall CalEnviroScreen score;
- 22 • All Tribal lands;
- 23 • Low-income households (Household incomes below 80 percent of the area median  
24 income); and

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<sup>180</sup> MCE, About Us, Our Purpose, available at: <https://mcecleanenergy.org/about/> (MCE Vision, MCE Mission).

<sup>181</sup> See **Chapter 4: Forecast Methodology and Zero-Based Budgeting.**

- Low-income census tracts (Census tracts where aggregated household incomes are less than 80 percent of area or state median income).<sup>182</sup>

This definition of Equity Customers satisfies the Commission’s Equity segment requirements. The Commission requires Equity segment programs to serve “hard-to-reach or underserved customers and disadvantaged communities[.]”<sup>183</sup> The Commission emphasized that these programs “should be designed to specifically serve customers (or groups of customers) meeting the criteria specified by Pub. Util. Code Section 1601(e) and, if applicable, Government Code Section 12100.63(h)(2) – for instance, a family/household with school-age children who are federally eligible for free or reduced-price meals – but customers not meeting any of these criteria should not be barred from participation.”<sup>184</sup>

Section 1601(e) defines “underserved community” as a community that meets one of the following criteria:

- (1) Is a “disadvantaged community” as defined by subdivision (g) of Section 75005 of the Public Resources Code (one where the “median household income” is “less than 80% of the statewide average”);
- (2) Is included within the definition of “low-income communities” as defined by paragraph (2) of subdivision (d) of Section 39713 of Health and Safety Code (census tracts with median household incomes “at or below 80 percent of the statewide median income or with median household incomes at or below the threshold designated as low income by the department of Housing and Community Development’s list of state income limits adopted pursuant to Section 50093”);
- (3) Is within an area identified as among the most disadvantaged 25 percent in the state according to the California Environmental Protection Agency and based on the most recent California Communities Environmental Health Screening Tool, also known as CalEnviroScreen.
- (4) Is a community in which at least 75 percent of public school students in the project area are eligible to receive free or reduced-price meals under the National School Lunch Program.
- (5) Is a community located on lands belonging to a federally recognized California Indian tribe.

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<sup>182</sup> CPUC, ESJ Action Plan 2.0, April 2022, available at: <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf>, p. 2.

<sup>183</sup> D.21-05-031, p. 14.

<sup>184</sup> D.23-06-055, p. 47.

1  
2 The Commission’s definition of an ESJ community entirely overlaps with the definition of  
3 an underserved community targeting low-income, disadvantaged communities, and Tribal lands.

4 MCE’s Equity Customer definition (and, correspondingly, its Equity segment programs) target:

- 5 • Disadvantaged communities;
- 6 • Low-income households; and
- 7 • Low-income census tracts.

8  
9 The Commission also clarifies that this is about the *aims* of these programs, and the  
10 definition of Equity Customers is not meant to set any participation limits or conditions based on  
11 membership in these communities. “Customers that may not be considered part of the equity  
12 segment will not be precluded from participating in [E]quity segment programs, but equity  
13 programs must be designed to target (*i.e.*, market and conduct outreach to) and to primarily serve  
14 [E]quity segment customers.”<sup>185</sup>

## 15 5.2 MCE’s Equity Segment Programs

16 To serve all MCE communities, advance energy equity, and respond to the unique needs of  
17 its service area—MCE currently implements and proposes continuing three Equity segment  
18 programs:

- 19 • Home Energy Savings Equity (“HES-E”) program – MCE’s HES-E program is a direct  
20 install program that provides low- and moderate-income single-family homeowners  
21 and renters a free home energy assessment and no-cost home energy upgrades,  
22 including electrification measures.<sup>186</sup>
- 23 • Multifamily Energy Savings Equity (“MFES-E”) program – MCE’s MFES-E program  
24 serves low-income customers in deed-restricted multifamily properties, offering EE  
25 and electrification measures. This program provides rebates for both tenant units and  
26 whole-building upgrades for property owners and tenants.<sup>187</sup>

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<sup>185</sup> *Id.* at p. 43.

<sup>186</sup> MCE, *Home Energy Savings*, available at <https://mcecleanenergy.org/home-energy-savings/>.

<sup>187</sup> MCE, *Energy Savings for Multifamily Properties*, available at <https://mcecleanenergy.org/multifamily-savings/>.

- 1           • Small Business Energy Advantage (“SBEA”) program – MCE’s SBEA program serves  
2           historically underserved small businesses with free energy assessments and  
3           upgrades.<sup>188</sup>

4           Each program delivers solutions that fulfill the objectives established in D.23-06-055,<sup>189</sup>  
5   namely:

- 6           • Address disparities in access to EE programs;  
7           • Deliver NEBs including resilience, health, comfort, safety, energy affordability, and  
8           energy savings; and  
9           • Reduce energy-related greenhouse gas and criteria pollutant emissions.

10           Strategies employed to fulfill these objectives are described in detail below.

### 11                   **5.3     Strategies to Serve MCE Equity Segment**

#### 12           1. *Partnering with Trusted Equity Implementers*

13           MCE uses a Request for Proposals (“RFP”) process to select implementation partners with  
14   demonstrated experience serving Equity customers. MCE selects implementation partners with  
15   demonstrated experience building trust with and successfully serving Equity customers and based  
16   on their capacity to engage communities where English is not the primary language.

#### 17           2. *Meaningful Partnerships with CBOs*

18           MCE works with CBOs as trusted partners to expand the reach and impact of its equity  
19   programs. Through the SBEA program, for example, MCE currently collaborates with CBOs such  
20   as Vallejo Main Street and Canal Alliance, to engage hard-to-reach businesses.<sup>190</sup> These  
21   partnerships support direct outreach including door-to-door, phone, and email communications—  
22   to small businesses that often lack the resources or awareness to pursue energy upgrades.

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<sup>188</sup> MCE, Small Business Energy Advantage, available at <https://mcecleanenergy.org/small-business-energy-advantage/>.

<sup>189</sup> D.23-06-055, pp. 57-58.

<sup>190</sup> Vallejo Main Street, available at <https://www.vallejomainstreet.org/>; Canal Alliance, available at <https://www.canalalliance.org/>.

1 CBOs play a critical role in building trust with potential program participants, particularly  
2 in ESJ communities, by connecting residents and business owners to beneficial program  
3 opportunities and supporting them through their participation. CBOs bring many existing strong  
4 and longstanding relationships with community members helpful for outreach. CBOs additionally  
5 are experts at culturally appropriate and in-language education and outreach methods. Their  
6 expertise can help communicate both energy and non-energy benefits of potential participation  
7 (such as cost savings, health comfort, and safety) effectively to diverse communities, making  
8 participation more accessible.<sup>191</sup>

9 By prioritizing meaningful CBO partnerships into its program design and delivery, MCE  
10 ensures its services reach customers who might otherwise be left out of traditional EE efforts.

### 11 3. *Community Engagement*

12 One vital strategy for achieving MCE's Equity goals is ongoing, meaningful community  
13 engagement and networking with Equity customers. This strategy includes engaging directly with  
14 Equity customers and their advocates to help design, promote and evaluate the benefits of MCE's  
15 EE programs. MCE's community engagement process will ensure that the benefits of the programs  
16 align with, and meet an accurate baseline of, community-driven needs. This information will be  
17 relevant to both ensuring the success of Equity programs and for mitigating barriers for Equity  
18 customer participation in EE programs more broadly. This strategy is also based on developing  
19 multilingual outreach and program materials to ensure that communities have access to  
20 information in their primary languages. MCE discusses its ongoing stakeholder outreach activities  
21 in **Chapter 8: Stakeholder Engagement**.

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<sup>191</sup> Building Energy Equity & Power (BEEP) Coalition, BEEP Comments on Equitable Building Decarbonization Program Draft Guidelines, June 2023, available at: <https://beepcoalition.org/publications/>, pp. 2, 3, 8.

1       4. *Low- or No-Cost Options*

2           Programs meet customers “where they are” by offering no- or low-cost assessments,  
3 installations, and technical support. A key structural barrier for Equity customers benefiting from  
4 clean energy and clean energy technologies is a lack of access to capital.<sup>192</sup> By stacking multiple  
5 non-ratepayer funding sources into its Equity segment programs,<sup>193</sup> MCE programs are able to  
6 minimize customer co-pay requirements, expanding access for those without discretionary funds  
7 for major home or commercial building upgrades. Special funds allocated from MCE’s operating  
8 budget (non-ratepayer funds) are also leveraged for electrification readiness measures, such as  
9 electrical circuit repair, light construction, and mold remediation, particularly supporting  
10 residential equity programs. By offsetting these ancillary upgrade costs, MCE makes installations  
11 feasible for customers who would otherwise be unable to afford them.

12       5. *Technical Assistance*

13           Each program provides tailored education and technical support throughout the upgrade  
14 process. In the multifamily sector, MFES-E implementors support property owners and managers  
15 at every stage of the project, helping them prioritize the various upgrade opportunities at their site,  
16 and helping them navigate the challenges presented by diverse building types. This approach  
17 ensures a tailored plan for each customer.

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<sup>192</sup> California Energy Commission, Low-Income Barriers Study, Part A: Overcoming Barriers to Energy Efficiency and Renewables for Low-Income Customers and Small Business Contracting Opportunities in Disadvantaged Communities, 2016, available at: <https://efiling.energy.ca.gov/getdocument.aspx?tn=214830>, p. 2.

<sup>193</sup> For the purposes of this application, MCE defines “non-ratepayer funds” as funds other than those authorized by the Commission to administer EE programs from its Public Purpose Programs surcharge. External funds MCE stacks or leverages when applicable include Transformative Climate Communities, Equitable Building Decarbonization, private grant funding, and various federal funds.

1 For single-family and small business customers, each HES-E or SBEA-supported upgrade  
2 is preceded by a detailed assessment to determine the most beneficial project scope, completed by  
3 trained EE professionals.

#### 4 *6. Customer Choice and Range of Upgrades*

5 Each Equity segment MCE program provides customers with upgrade options tailored to  
6 the property, geographic location, and customers' needs. For example, multifamily properties are  
7 offered in-unit options, such as ductless mini-splits ideal for small, ductless spaces, while single  
8 family homes are provided with insulation and air sealing for homes not up to code. Small  
9 commercial customers are offered measures selected for commercial utility, like vending machine  
10 controls and advanced lighting systems.

#### 11 *7. Neighborhood Approach*

12 MCE prioritizes Equity customers via a community campaign model. HES-E and SBEA  
13 programs employ neighborhood-based outreach, including email, social media, events, and in-  
14 person canvassing. These programs target DACs and predominantly moderate- and low-income  
15 areas, as determined by CalEnviroScreen and census data. Interested customers receive no-cost  
16 assessments and participation incentives. Trust is fostered through word-of-mouth referrals, with  
17 implementers relying on these to expand access and strengthen community relationships. MFES  
18 outreach leverages established organizational networks—local governments, property owner  
19 organizations, municipal contractors, and housing service providers—to disseminate program  
20 information within the community.

#### 21 *8. Economies of Scale*

22 MCE uses economies of scale to expand access to EE and electrification while lowering  
23 costs. By delivering low- and no-cost installations across entire neighborhoods, buildings, and

1 business sectors, programs achieve holistic scopes of work that reduce administrative overhead  
2 and maximize long-term energy savings. Pre-defined measure sets enable implementers to  
3 coordinate bulk purchasing, secure better pricing, and send clear market signals that drive demand  
4 for efficient and electrified products.

5 9. *Advancing Non-Energy Benefits (Resilience, Health, Comfort, Safety, and Emissions*  
6 *Reductions)*

7 The goals of MCE’s Equity programs are to provide EE and electrification opportunities to  
8 Equity customers while also generating NEBs such as increased health, safety and comfort. MCE  
9 strives to reduce energy costs and burdens for Equity customers especially considering the ongoing  
10 affordability crisis. As so many Equity customers suffer from high energy bills, EE programs  
11 should maximize bill savings potential and the NEB of “bill savings.”<sup>194</sup> MCE selects measures  
12 and stacks external funds to ensure Equity segment programs deliver meaningful NEBs to  
13 participating customers, and ESJ communities especially.

14 All MCE Equity segment programs start with a qualified assessment and tailored  
15 recommendations that prioritize energy savings and reduced GHG and pollutant emissions.  
16 Program-supported upgrades use only non-combustion (electric) technologies, improving indoor  
17 environments while lowering health and safety risks.<sup>195</sup> Rigorous quality assurance—including  
18 inspections, customer surveys, and expert post-installation checks—ensures every upgrade meets  
19 program standards and delivers on energy, health, and safety goals.

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<sup>194</sup> Public Policy Institute of California, Low-Income Households Struggle with the Cost of Electricity Bills, August 2025, available at: <https://www.ppic.org/blog/low-income-households-struggle-with-the-cost-of-electricity-bills/>.

<sup>195</sup> Yannai Kashtan, Chenghao Wang, Kari C Nadeau, Robert B Jackson, Integrating indoor and outdoor nitrogen dioxide exposures in US homes nationally by ZIP code, *PNAS Nexus*, Volume 4, Issue 12, December 2025, pgaf341, <https://doi.org/10.1093/pnasnexus/pgaf341> (finding switching from natural gas stoves to electric stoves dramatically reduces air pollution and associated health effects).

1 In addition, MCE participated in the Market Rate Non-Energy Benefits (“NEBs”) Equity  
2 Sector Working Group in 2023 and 2024, which enabled broad PA and stakeholder collaboration  
3 to “further define the goals, priorities, and scope of [a NEBs study]” to update and improve  
4 quantification of NEBs as an indicator for Equity segment program performance.<sup>196</sup> The Working  
5 Group made several recommendations to inform the NEBs Study Tier 1 advice letter, including  
6 identifying which NEBs should be considered as a high priority for the study.<sup>197</sup>

7 Based on its participation in the Working Group and its program design activities informed  
8 by stakeholder feedback, MCE anticipates its Equity segment programs will target delivering  
9 NEBs such as the “Benefit of bill savings,” “More comfortable,” “Better health at the participant  
10 level,” “Increased job access at the participant level,” and “Economic development” given the  
11 discussions and outcomes of the Working Group. MCE anticipates its Equity segment programs  
12 may deliver other NEBs deemed lower priority in the Working Group, such as “Increased property  
13 value” and “Increased productivity.”

14 The Market Rate NEBs Equity Segment Study is mandated to be completed no later than  
15 October 1, 2026. MCE appreciated the opportunity to participate in the Market Rate Non-Energy  
16 Benefits Equity Sector Working Group and looks forward to reviewing and implementing the  
17 findings of the final report to track NEBs as an indicator for Equity segment program  
18 performance.<sup>198</sup> MCE will incorporate the contents of the Market Rate NEBs Equity Segment  
19 Study into its implementation of PY 2028-2031 Equity segment programs.<sup>199</sup>

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<sup>196</sup> D.23-06-055, p. 35.

<sup>197</sup> *Id.*, OP 18.

<sup>198</sup> *Id.*, pp. 124-125.

<sup>199</sup> MCE also tracks and participates in the CEC’s Informational Proceeding on Non-Energy Impacts Docket Log (Docket Log 24-OIIP-03, available at: <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=24-OIIP-03>). MCE will similarly incorporate relevant content from this proceeding as appropriate and applicable.

## 5.4 Definitions of Equity Subcategories

The current CPUC definitions for the three Equity subcategories—hard to reach (“HTR”), underserved, and disadvantaged communities (“DACs”)— are foundational to guiding equity-focused program design and delivery. MCE recognizes that there is overlap between the three categories and that other populations presently excluded from the definitions may also face significant barriers to EE program participation. In this Application, MCE does not submit specific refinement to the definitions of hard-to-reach, underserved and DACs. MCE is not opposed to expanding Equity subcategory definitions. However, MCE believes updates to Equity definitions should be deeply informed by Equity customers themselves and their advocates. MCE recommends the Commission explore Equity definitional refinement with the guidance of stakeholders within ESJ communities, the California Energy Efficiency Coordinating Committee<sup>200</sup> and the Disadvantaged Community Advisory Group.<sup>201</sup>

## 5.5 Sectors Served under the Equity Segment

Given that residential customers account for over 46 percent of MCE’s total electricity consumption—and noting that residential customers face historic barriers to cost-effective EE program delivery—MCE prioritizes serving residential sectors, including both single family and multifamily properties in its Equity segment programs.

However, as discussed in **Chapter 3: Portfolio Strategies**, MCE’s commitment to serving hard-to-reach and underserved communities extends to the commercial sector through the SBEA

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<sup>200</sup> California Energy Efficiency Coordinating Committee, available at <https://www.caeccc.org/>.

<sup>201</sup> CEC, DACAG, available at: <https://www.energy.ca.gov/about/campaigns/equity-and-diversity/disadvantaged-communities-advisory-group-dacag> (“The DACAG is an 11-member advisory group created by Senate Bill 350 (de León, Chapter 547, Statutes of 2015) that advises CEC and the California Public Utilities Commission (CPUC) on how to design and implement policies and programs to be more effective on behalf of disadvantaged communities and in the achievement of our clean energy and pollution reduction goals.”).

1 program, which focuses on businesses located in disadvantaged communities and other  
2 underserved areas. Commercial Equity customers face unique barriers to accessing EE and clean  
3 energy opportunities including, but not limited to, contracting constraints, a lack of effective  
4 outreach, relevant data gaps, split incentives, financial obstacles, specific technical assistance  
5 needs, and workforce needs.<sup>202</sup>

6 In its Equity segment, MCE forecasts serving 1,900 single-family homes or units and zero  
7 manufactured homes in PYs 2028-2031. MCE additionally forecasts serving 3,800 single-family  
8 homes and zero manufactured homes in 2028-2035. In this Application, MCE proposes an EM&V  
9 study to remove EE program barriers for manufactured homes customers as discussed in **Chapter**  
10 **9: Evaluation, Measurement and Verification**. MCE plans to use information learned through  
11 its manufactured homes EM&V study to serve those customers through its portfolio programs,  
12 especially Equity segment programs.

13 **6. Codes & Standards**

14 MCE is not required to and may not claim savings from administering Codes & Standards  
15 programs.<sup>203</sup> MCE is not submitting Codes & Standards programs in this Application.

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<sup>202</sup> California Energy Commission, SB 350 Low-Income Barriers Study Part A at pp. 4; 9-10; 64; 69-70.

<sup>203</sup> D.12-11-015, OP 20.

1 **Chapter 7: Portfolio Coordination**

2 Marin Clean Energy (“MCE”) takes regular and repeated actions to ensure that it  
3 coordinates its Energy Efficiency (“EE”) portfolio internally and with relevant partners to remove  
4 the risk of duplications, overlap and to ensure that ratepayer funds are deployed to their maximum  
5 impact pursuant to California Public Utilities Commission (“CPUC”) requirements.<sup>204</sup> MCE  
6 operates its EE portfolio in a complex regulatory, jurisdictional, and programmatic environment  
7 and remains committed to compliance with all controlling directives. MCE’s ongoing coordination  
8 activities help it promote the adoption and dissemination of programmatic best practices, limits  
9 customer confusion, supports customer access to best fit programmatic offerings, confirms that its  
10 work and the work of its partners is complementary, and ensures the responsible use of ratepayer  
11 funds.

12 **1. Coordination within the Same PA**

13 MCE is a relatively small program administrator (“PA”) and the program staff that manage  
14 programs work in close coordination with each other. Program staff have weekly coordination  
15 meetings to review programmatic progress, identify any implementation issues, discuss potential  
16 changes to programs, and lessons learned, and to share best practices. MCE staff work to ensure  
17 EE programmatic offerings are effective, complementary and responsive to customer needs.

18 Program staff meet with policy staff on a biweekly basis to discuss ever evolving policy  
19 requirements for EE programs including coordination issues. Program staff and policy staff  
20 regularly meet and communicate with Customer Operations staff, Public Affairs staff, and other  
21 agency staff. All meetings and communication channels provide accessible and recurring venues  
22 for MCE staff to ensure the appropriate coordination across its EE portfolio, other agency

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<sup>204</sup> Decision (“D.”) 23-06-055, Ordering Paragraph (“OP”) 32 (requiring documentation of PA actions to “...mitigate or minimize ratepayer risk of program overlap and duplication.”).

1 programs and across the agency’s wide range of related activities serving its service area. MCE  
2 coordinates internally with the shared goals of best serving its customers and responsible  
3 stewardship of ratepayer funds.

## 4 **2. Coordination with Other PAs**

5 MCE coordinates with overlapping PAs through formalized Joint Cooperation  
6 Memorandums (“JCMs”) and a set of standing and ad-hoc coordination forums designed to ensure  
7 transparency of programmatic offerings, prevent double-dipping, and present a coherent customer  
8 experience across overlapping service territories. JCMs must detail program summaries and PA  
9 cooperation commitments to ensure customers are aware of all programs and best positioned to  
10 make informed decisions.<sup>205</sup> These processes are structured to support both regional alignment  
11 (e.g., within the Bay Area) and statewide alignment (particularly where investor-owned utility  
12 (“IOU”) led statewide programs intersect with MCE’s local portfolio).

## 13 **3. Coordination Participants**

### 14 **3.1 Program Administrators Coordination**

15 MCE coordinates with the following list of PAs where geographic overlap or shared  
16 customers exists.

- 17 • **Pacific Gas and Electric Company (“PG&E”)**
  - 18 ○ **Geographic Overlap:** PG&E serves as the incumbent IOU gas provider and electric  
19 delivery utility in MCE’s service area. Customers may be eligible for either MCE-  
20 administered or PG&E-administered EE programs, as well as PG&E-led statewide  
21 programs (discussed below).

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<sup>205</sup> D.18-05-041, pp. 122-123.

- 1           ○ **Customer Segment Overlap:** Residential (single-family and multifamily),  
2           commercial, industrial, agricultural, public sector, and workforce education and  
3           training (“WE&T”).
- 4           • **Bay Area Regional Energy Network (“BayREN”)**
- 5           ○ **Geographic Overlap:** MCE serves customers in four of BayREN’s nine Bay Area  
6           counties. Both entities administer EE programs in residential (single-family and  
7           multifamily) and small/medium commercial sectors.
- 8           ○ **Customer Segment Overlap:** Residential (single-family and multifamily), small and  
9           medium businesses, public sector, and WE&T.
- 10          • **Statewide Program Administrators (PG&E, BayREN, other IOUs)**
- 11          ○ **Geographic Overlap:** MCE customers may access statewide programs administered  
12          by PG&E, BayREN or other IOUs (e.g., Codes & Standards, New Construction,  
13          Workforce, Emerging Technologies).
- 14          ○ **Customer Segment Overlap:** Cross-cutting, depending on statewide program scope.
- 15          **4.       Coordination Structure and Frequency**
- 16               **4.1      Formal Coordination Venues**
- 17          MCE relies on multiple formal and semi-formal coordination venues, each serving a  
18          distinct function:
- 19          **a.       Joint Cooperation Memorandum (“JCM”) Process**
- 20          ○ “The JCM development process involves a series of collaborative meetings between  
21          PAs, where sector and program-level strategies are debated and developed. The JCMs

1 help PAs determine—at a regional level—the best, most effective methods to avoid  
2 customer confusion and prevent negative outcomes from potential program overlap.”<sup>206</sup>

- 3 ○ “Each PA already provides discussion of how programs coordinate and cooperate to  
4 avoid overlap, and what mitigation measures are in place, through JCMs[.]”<sup>207</sup>
- 5 ○ MCE’s bilateral JCMs with PG&E and BayREN are updated on an annual cycle and  
6 filed with the CPUC.
- 7 ○ These JCMs establish agreed-upon coordination protocols, data sharing practices, and  
8 escalation pathways.

9 **b. Standing Sector-Based Coordination Meetings**

10 In addition to the JCM process, MCE conducts sector-specific forums quarterly with PG&E  
11 and BayREN for residential programs, non-residential programs (commercial, industrial,  
12 agricultural, public sector), and WE&T. MCE uses these forums to surface program changes,  
13 implementation issues, and potential overlap to be addressed.

14 **c. Measure Package and Ex-Ante Coordination Meetings**

15 MCE coordinates with PG&E monthly on deemed measure packages, timing of program  
16 updates, and alignment with statewide Technical Reference Manual (“eTRM”) and California  
17 Technical Forum (“CalTF”) processes.

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<sup>206</sup> Southern California Regional Energy Network Filing on Behalf of the Energy Efficiency Portfolio Administrators for Program Overlap Analysis, SoCalREN Advice Letter 20-E/20-G, pp. 9. California Energy Efficiency Coordinating Committee (“CAEECC”) JCMs are available on the CAEECC’s website: <https://www.caeec.org/joint-cooperation-memos>.

<sup>207</sup> *Id.* at 28.



1 encourage direct engagement with PAs. These strategies support customers’ ability to make  
2 informed and empowered decisions on program participation. Program managers across PAs share  
3 program participation information with one another to ensure that savings are not double counted  
4 for some sectors (for example, Resource Acquisition programs). Additionally, MCE and other PAs  
5 have developed decision trees on program offerings with similarities that program implementers  
6 can follow when determining what are the best options for the customer in terms of highest energy  
7 and bill savings based on their unique characteristics and or eligibility criteria. For example, MCE  
8 uses a decision tree for its Multifamily Energy Savings-Equity program and the Bay Area  
9 Multifamily Building Enhancements (“BAMBE”) administered by BayREN because they both  
10 serve multifamily customers. In the case of complementary programs with different sectors served  
11 and program delivery models, PAs and implementers inform customers of other programs they  
12 may be eligible to participate in.

13 PA staff also identify program changes that may result in “substantially similar” or  
14 “duplicative” programs through established communication channels—mainly the sector-based  
15 coordination calls. Following identification of potential issues, PA staff suggest and  
16 collaboratively refine potential solutions compliant with CPUC requirements and to best serve  
17 customer needs. Timelines for resolution can vary as many factors can impact outcomes including  
18 the scope and scale of potential overlap, the existing investment from each PA is in its  
19 corresponding planning processes, the constraints of the program or program delivery model,  
20 and/or the potential for the program design type. Typical timelines range from immediate to one  
21 year.

22 There are several levers through which MCE works to prevent overlap and resolve any  
23 overlap that does occur. Specifically, these include administrative/structural levers, customer

1 participation controls, data and information levers, and program differentiation levers. MCE  
2 addresses each of these levers in more detail below:

3 • **Administrative / Structural Levers**

- 4 ○ Develop mutually agreed eligibility differentiation rules (*e.g.*, income limits, square-  
5 footage thresholds, hard-to-reach definitions).
- 6 ○ Define referral pathways for customers not eligible for one PA’s program.
- 7 ○ Sequence offerings by participation pathway (*e.g.*, direct install versus rebate; strategic  
8 energy management (“SEM”) versus retrofits).

9 • **Customer Participation Controls**

- 10 ○ Apply mutually exclusive customer flags (*e.g.*, do not serve within 12-month baseline).
- 11 ○ Implement project-level exclusion rules for:
  - 12 ▪ Customers already served by a ratepayer-funded program.
  - 13 ▪ Measures found to be identical to those incentivized elsewhere.
- 14 ○ Require implementers to maintain pre-enrollment screening workflows.

15 • **Data and Information Levers**

- 16 ○ Share quarterly claims and enrollment data.
- 17 ○ Notify PAs of planned changes to program design before launch.
- 18 ○ Conduct joint implementer messaging to align enrollment rules.

19 • **Program Differentiation Levers**

- 20 ○ Layer programs to serve distinct population segments, such as:
  - 21 ▪ Disadvantaged Communities (“DAC”) / moderate-income / deed-restricted  
22 affordable housing.
  - 23 ▪ Businesses under 50,000 square feet versus large commercial and industrial.

- 1           ○ Align by measure type or approach, such as:
  - 2           ▪ Upstream/midstream versus direct install versus Normalized Metered Energy
  - 3           Consumption (“NMEC”).
  - 4           ▪ Behavioral/SEM versus capital replacement.

6           **6.       Coordination with Market Transformation**

7           Market Transformation is a concerted, strategic effort to “remove structural barriers  
8 preventing growth in market share of a technology or practice.”<sup>208</sup> Market Transformation  
9 strategies drive penetration of important technologies throughout a society or economy, and helps  
10 ensure that California benefits to the maximum extent possible from relevant technological  
11 advancements. MCE believes the insights of California’s various Market Transformation  
12 initiatives can advance the goals of its EE portfolio, and that similarly its EE expertise from  
13 administering portfolio programs can in turn improve California’s Market Transformation  
14 activities. The coordination of market transformation efforts is an important priority for MCE.

15           MCE purposely pursued a key state leadership position to better coordinate these efforts.  
16 MCE was selected to serve as a member of the Market Transformation Advisory Board  
17 (“MTAB”).<sup>209</sup> As a member of MTAB, MCE provides substantive and relevant feedback and  
18 recommendations to the California Market Transformation Administrator (“CalMTA”) on their  
19 market transformation initiatives (“MTIs”) for residential and nonresidential applications. Since  
20 joining the MTAB in 2025, MCE staff participated in quarterly update/feedback sessions on  
21 CPUC-approved market transformation initiative design. Through each interaction, MCE staff

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<sup>208</sup> CalMTA, FAQ: Market Transformation (MT), available at: <https://calmta.org/faq-market-transformation/>.

<sup>209</sup> The MTAB “provides expertise and unbiased, non-binding recommendations to CalMTA and to the CPUC.” CalMTA, Advisory Board FAQ, available at: <https://calmta.org/advisory-board-faq/>.

1 provided thoughtful insight rooted in its on-the-ground PA experience with MTIs and emerging  
2 technologies.

3 MCE is actively coordinating with CalMTA on its current MTIs and plans to continue to  
4 further integrate CalMTA MTIs into its portfolio. For example, in November 2025 CalMTA  
5 received approval to proceed with MTIs for induction cooking products<sup>210</sup> (with particular  
6 attention to 24 inch 120V models that fit in smaller kitchens) and 120V window heat pumps  
7 tailored for California’s climate and buildings.<sup>211</sup> MCE’s Equity segment programs provide low-  
8 cost and, in most cases, no-cost incentives for decarbonization measures like electric heat pumps  
9 and induction cooktops. Specifically, MCE partners with the Association for Energy Affordability  
10 (“AEA”) to provide incentives for multifamily decarbonization and EE upgrades through the  
11 Multifamily Energy Savings Equity (“MFES-E”) program.<sup>212</sup> Through MFES-E, a deed-restricted  
12 low-income property received no-cost induction cooktops and cookware. CalMTA evaluated the  
13 impact of these MFES-E-enabled upgrades on customer satisfaction and bills in a report designed  
14 to inform further induction cooktop advocacy throughout the state and implementation.<sup>213</sup>  
15 CalMTA released the report and subsequent findings in February 2026,<sup>214</sup> “CalMTA will expand

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<sup>210</sup> CalMTA, Induction Cooking MTI Plan, December 2024, available at:  
<https://calmta.org/resourcereport/induction-cooking-mti-plan/>; D.25-11-023, p. 7 “The two initial MTIs proposed are for Room Heat Pumps and Induction Cooking, leveraging an investment of approximately \$92.6 million to deliver an estimated \$1 billion in incremental TSB over their market deployment years from 2026 through 2045. Both initiatives include strategies to bring the benefits of room heat pumps and induction cooking to Environmental and Social Justice (ESJ) communities, in accordance with the definitions and goals established in the Commission’s ESJ Action Plan.”).

<sup>211</sup> D.25-11-023, OP 1.

<sup>212</sup> See MFES program details in **Chapter 6: Segmentation and Sector Strategy**.

<sup>213</sup> CalMTA, 120V Battery-Equipped Induction Ranges Field Study Report, February 2026, available at:  
<https://calmta.org/wp-content/uploads/2025/09/120V-Battery-Equipped-Induction-Ranges-Field-Study.pdf>, pp. 1-2 (The replacement of gas ranges with induction ranges builds off AEA's broader electrification work at the Emerson Arms site, which is funded through MCE’s Multifamily Energy Savings (MFES) and Low-Income Families and Tenants (LIFT) programs, as well as the California Department of Community Services and Development Low-Income Weatherization Program (LIWP).

<sup>214</sup> *Id.*

1 this data set with research conducted at other multifamily sites in California, using the results to  
2 make recommendations to manufacturers for future induction product development. Research  
3 findings will also inform CalMTA’s Induction Cooking Market Transformation Initiative (MTI)  
4 Plan, which features market-level interventions designed to increase the availability of 120V  
5 induction options in California and was conditionally approved by the California Public Utilities  
6 Commission (CPUC) on Nov. 20.”<sup>215</sup>

7 As with induction cooktops and cookware, MCE will add innovative, vetted technologies  
8 as appropriate into Equity, Resource Acquisition, and Market Support segment programs to assist  
9 community choice aggregators (“CCA”) in reaching market transformation (which according to  
10 logic models developed by CalMTA, will take upwards of 10 years for each technology).<sup>216</sup> This  
11 avenue for deployment will enable improvements from “baseline market adoption” to a level of  
12 “total market transformation.”<sup>217</sup> For example, CalMTA is developing a program for residential  
13 heat pump water heaters (“HPWH”). MCE currently self-funds HPWH readiness and measure  
14 installations that support its Home Energy Savings (“HES-E,”) Flex Market, and MFES-E  
15 programs. As CalMTA continues to develop its program logic models, MTIs and corresponding  
16 activities for HPWH and induction cooktops, MCE looks forward to continued coordination, and  
17 complementary investment in this innovative technology through its portfolio programs.

18 MCE also regularly partners and coordinates with Technology and Equipment for Clean  
19 Heating (“TECH”) Clean California program administrators and implementers, and will continue  
20 to do so. TECH Clean California is “a statewide initiative to accelerate the adoption of clean space

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<sup>215</sup> CalMTA, 120V Battery-Equipped Induction Ranges: New Field Study Findings Now Available, February 2026, available at: <https://calmta.org/120v-battery-equipped-induction-ranges-new-field-study-findings-now-available/>.

<sup>216</sup> See, e.g., CalMTA, Induction Cooking MTI Plan, December 2024, available at: <https://calmta.org/resourcereport/induction-cooking-mti-plan/>.

<sup>217</sup> CalMTA, Room Heat Pumps FAQs, available at: <https://calmta.org/room-heat-pumps-faqs/>.

1 and water heating technology across California homes.”<sup>218</sup> Among other initiatives, TECH Clean  
2 California administers a Quick Start Grant program that sponsors innovative projects. One such  
3 project was with Barnett Plumbing and Water Heaters, which successfully ran a gas heater loaner  
4 program for customers who needed emergency replacements, to allow them the time to retrofit and  
5 purchase an electric alternative before making a long-term gas purchase.<sup>219</sup> MCE leveraged this  
6 model to develop MCE funded projects including its Emergency Water Heater Loaner program.  
7 MCE’s Emergency Water Heater Loaner program complements its EE portfolio programs like  
8 HES, MFES, and Flex Markets, by offering contractors \$1,500 to help cover the cost of installing  
9 and maintaining a temporary loaner water heater (gas or electric) as part of the customer’s  
10 permanent heat pump water heater installation.<sup>220</sup> More generally, MCE coordinates with market  
11 transformation efforts and responds to customer needs by designing its decarbonization focused  
12 incentives to complement or supplement statewide offerings like TECH.

13 Lastly, MCE coordinates with, and has incorporated lessons from, the market  
14 transformation resource the Switch Is On.<sup>221</sup> MCE uses this resource directly by referring  
15 contractors and residential customers to the Switch Is On website, where they are linked to industry  
16 professionals and decarbonization focused educational resources. In addition, in the spirit of the  
17 Switch Is On model, MCE launched its own contractor-focused outreach and education campaign,  
18 including:

- 19
- New contractor-facing collateral education materials;

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<sup>218</sup> TECH Clean California, available at: <https://techcleanca.com/>.

<sup>219</sup> TECH Clean California, 2021 Quick Start Grant Recipients, Barnett Plumbing, available at: <https://techcleanca.com/quick-start-grants/2021-quick-start-grant-recipients/barnett-plumbing/>.

<sup>220</sup> MCE, Get Cash for Heat Pump Water Heater Upgrades, available at: <https://mcccleanenergy.org/heat-pump-water-heater-incentive/>.

<sup>221</sup> Switch Is On, available at: <https://www.switchison.org/>.

- 1 • Program offerings (Green Workforce Pathways Program (“GWPP”) stipends for industry  
2 professionals to attend decarbonization trainings);
- 3 • A Contractor Finder page that allows customers to search for licensed and experienced  
4 decarbonization focused contractors in their area;<sup>222</sup>
- 5 • Contractor support projects and events throughout the year (e.g., the Electrification  
6 Contractor Power Breakfast) to receive feedback on MCE programs that inform  
7 meaningful improvements; and
- 8 • The E-Contractor Academy: A six-week training program focused on building climate-  
9 critical business capacity for diverse, small and local construction business owners. The E-  
10 Contractor Academy offers participants training, business support, and connections to  
11 project opportunities in the Bay Area.

## 12 7. Coordination with Energy Savings Assistance Programs

13 MCE’s EE program is complementary to the Energy Savings Assistance (“ESA”) program  
14 currently offered in its territory by PG&E. PG&E’s ESA program provides direct install measures  
15 to low-income customers. Direct install measures, generally, are those measures that can be  
16 quickly installed with little or no preparatory work (e.g., low flow water fixtures, smart  
17 thermostats, and weatherstripping).

18 MCE’s Equity segment direct install programs for equity customers provide no- or low-  
19 cost installation measures for both low- *and* moderate-income customers. However, when working  
20 on installations for low-income customers, there are sometimes opportunities for direct install  
21 measures to be introduced as well for the same home. In those cases where the costs for those

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<sup>222</sup> MCE, Find a Licensed Contractor, available at: <https://mcecleanenergy.org/contractor-finder/>.

1   direct install measures are not covered by MCE’s EE portfolio programs, the program implementer  
2   will refer the customer to the PG&E ESA program to receive the benefits of that ESA program.

3           As part of the JCM coordination, MCE meets regularly (typically on a bimonthly or more  
4   frequent basis) with PG&E to provide updates to existing equity-focusing programs, and explores  
5   opportunities for collaboration and to avoid duplicative work for the same customers. During  
6   check-in meetings, PG&E and MCE discuss any potential program changes, and potential measure  
7   or program overlap. If potential program changes or overlap issues are identified through meetings  
8   and ongoing correspondence, PG&E and MCE collaborate on mutually agreed upon needed  
9   adjustments. Beyond coordination meetings, MCE staff regularly review PG&E’s webpages on  
10   ESA programs and PG&E’s ESA providers’ webpages to identify any potential geographic or  
11   measure overlap with MCE programs—especially Equity segment programs serving low-income  
12   customers. MCE additionally submits programmatic updates via the other CPUC required  
13   channels including implementation plan updates,<sup>223</sup> the program launch/closure checklist,<sup>224</sup> and  
14   mid-cycle advice letters.<sup>225</sup> These processes provide added public opportunities for coordination,  
15   collaboration and transparency related to EE and ESA programs with PG&E, Energy Division  
16   staff, and interested parties.

17           MCE is especially experienced with ESA coordination activities because of its experience  
18   administering MCE’s Low-Income Families and Tenants (“LIFT”) pilot program from 2017-2023.  
19   LIFT provided low- to no-cost upgrades including electrification measures for low-income,  
20   multifamily customers throughout MCE’s service area.<sup>226</sup> LIFT functioned as a complement to  
21   MCE’s MFES program by offering additional, complementary incentives beyond MCE’s MFES

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<sup>223</sup> D.15-10-028, OP 6.

<sup>224</sup> D.21-05-03, OP 12.

<sup>225</sup> *Id.* at OP 10.

<sup>226</sup> LIFT projects were not to participate in PG&E’s ESA program.

1 program offerings. MCE applied to the CPUC for ESA funds<sup>227</sup> to administer LIFT from the CPUC  
2 and was awarded funds and permission to administer the program through 2023.<sup>228</sup> Administration  
3 of LIFT required MCE to develop an expertise on ESA program rules, approved measures, and  
4 coordination with PG&E on ESA specifically. Since LIFT’s pilot program closure, MCE continues  
5 to apply its lessons learned from administering LIFT and participating in the ESA ecosystem to its  
6 administration of MFES and HES programs especially. MCE finds its experience administering  
7 LIFT extremely valuable in ongoing coordination with PG&E’s ESA program.

## 8 **8. Coordination with Other Demand Side Programs**

9 MCE supports customers navigating an array of demand side program offerings to serve  
10 their varied needs. Through its “Any Open Door” approach,<sup>229</sup> anytime a customer approaches  
11 MCE about a program offering, MCE will provide that customer with helpful information about  
12 the full suite of energy-related program opportunities and resources available. In addition to  
13 MCE’s and other PAs’ EE offerings, MCE informs customers about the following demand-side  
14 programs:

- 15 ● Programs and initiatives focusing on electrification measures;
- 16 ● Programs focusing on other DER activities such as demand management, solar and/or  
17 energy storage programs, or electric vehicles (“EV”) and electric vehicle supply equipment  
18 (“EVSE”);
- 19 ● Programs providing financial support to Equity customers and affordability;
- 20 ● Programs offering financing for energy related projects; and

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<sup>227</sup> Historically limited to investor-owned utility PAs. Cal. Pub. Util. Code § 2790 (requiring the CPUC to order electric and gas corporations to provide ESA programs).

<sup>228</sup> See D.16-11-022 (approving LIFT); D.21-06-015 (extending LIFT through 2023).

<sup>229</sup> MCE’s “Any Open Door” approach is described in more detail in **Chapter 3: Portfolio Strategies** and **Chapter 6: Segmentation and Sector Strategy**.

- Programs focusing on health and safety improvements.

## **9. Coordination on Programs for Equity Customers and Affordability**

When MCE engages with customers interested in EE programs, MCE program staff ensures that the customer is taking advantage of all the financial support and bill relief programs that are available from MCE, the State, and other entities—including, but not limited to California Alternate Rates for Energy (“CARE”), Family Electric Rate Assistance (“FERA”), Arrearage Management Program (“AMP”), Low-Income Home Energy Assistance (“LIHEAP”) and Low-Income Weatherization Program (“LIWP”) programs.

MCE further helps eligible customers access any rate or tariff support and bill relief program it offers. For example, “MCE Cares” is a bill relief program that MCE launched in 2020 using its own generation revenue to support residents and businesses suffering adverse financial impacts from the COVID-19 pandemic. Since 2020, MCE’s Board extended the MCE Cares credit to currently offer \$20 to \$25 off monthly electricity bills for low-income residential customers and small businesses.<sup>230</sup> By leveraging its own bill relief programs, ratepayer-funded programs, and State-funded programs, MCE will help ensure that Equity customers not only save energy but also receive non-energy benefits (“NEBs”) including health, safety, and comfort improvements in their homes.

## **10. MCE Rebate and Incentive Finder Tool**

Complementary to its “Any Open Door” activities and direct engagement with customers, MCE also hosts a free, publicly available Residential Rebate & Incentive Finder tool on its website to help customers access other demand side programs and rebates.<sup>231</sup> The personalized tool guides

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<sup>230</sup> MCE, MCE Cares Credit, available at: <https://mcecleanenergy.org/mce-cares-credit>.

<sup>231</sup> MCE, Residential Rebate & Incentive Finder, available at: <https://mcecleanenergy.org/find-rebates-and-incentives/>.

1 customers through various rebates and incentives available to them based on their own eligibility  
2 characteristics. Customers enter their information and then receive a customized list of the rebates  
3 and incentives they are eligible for. Many incentives can be combined to maximize savings or  
4 additional NEBs.

## 5 **11. Coordination with Decarbonization Programs**

6 California is accelerating its move toward building decarbonization, including transitioning  
7 from natural gas appliances to electric alternatives due to several recent policies.

- 8 • Assembly Bill 3232 (Friedman, 2018) requires significant emissions reductions  
9 from building stock.<sup>232</sup>
- 10 • Senate Bill 1279 (Muratsuchi, 2022) requires the state to achieve net zero  
11 greenhouse gas emissions by 2045.
- 12 • Governor Newsom issued a 6 million heat pump deployment goal with 50 percent  
13 of investments to disadvantaged communities.<sup>233</sup>
- 14 • The Bay Area Air District adopted building appliance rules limiting the sales of  
15 specific space and water heater natural gas appliances.<sup>234</sup>

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<sup>232</sup> See e.g. CPUC, Energy Efficiency Natural Gas Incentive Phase-Out Staff Proposal (DRAFT), December 2025, p. 3 (“California needs bold action to meet the state’s goals to decarbonize the electric sector, and EE has an important role to play in that transition.”).

<sup>233</sup> Office of the Governor, Letter to California Air Resources Board, July 2022, available at: <https://www.gov.ca.gov/wp-content/uploads/2022/07/07.22.2022-Governors-Letter-to-CARB.pdf>, p. 2. (“That is why I am establishing a goal of 3 million climate-ready and climate-friendly homes by 2030 and 7 million homes by 2035, which shall be supplemented through the deployment of 6 million heat pumps statewide by 2030. At least fifty percent of the funding to achieve these goals shall be directed toward disadvantaged communities.”).

<sup>234</sup> Bay Area Air District, CONCEPTS FOR RULE 9-6 AMENDMENTS: Affordability and Availability Considerations for Zero NOx Small Water Heaters, October 2025, available at: [https://www.baaqmd.gov/~/media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/rule-09\\_06-concepts-paper\\_final-v1-pdf.pdf?rev=9eac6fc7a84e4b259fd2017c838de68c&sc\\_lang=en](https://www.baaqmd.gov/~/media/dotgov/files/rules/reg-9-rule-4-nitrogen-oxides-from-fan-type-residential-central-furnaces/2021-amendments/documents/rule-09_06-concepts-paper_final-v1-pdf.pdf?rev=9eac6fc7a84e4b259fd2017c838de68c&sc_lang=en), pp. 2-3 (outlining zero emissions appliance rules, history and potential amendments).

- 1 • The California Air Resources Board (“CARB”) is developing potential rules for  
2 zero-emissions space and water heater appliances statewide as part of its State  
3 Implementation Plan.<sup>235</sup>
- 4 • The CPUC outlined a pathway for EE portfolio programs to limit natural gas  
5 incentives and support building decarbonization.<sup>236</sup>

6 Advancing affordable, equitable, and community-led decarbonization solutions is key to  
7 MCE’s mission.<sup>237</sup> MCE is actively supporting this shift to building electrification in several ways  
8 including, but not limited to:

- 9 • Administering WE&T programming;
- 10 • Supporting regional electrification in the Bay Area;
- 11 • Layering external funds; and
- 12 • Participating in building decarbonization proceedings.

13 **12. Administering Workforce Education & Training**

14 MCE supports coordination with other building decarbonization efforts and goals by  
15 administering its GWPP.<sup>238</sup> The GWPP provides electrification training and resources to  
16 contractors and job seekers in MCE’s service area. This program supports the development and  
17 expansion of a qualified workforce that can deliver electrification projects to advance progress on  
18 a variety of state climate and building decarbonization goals.

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<sup>235</sup> CARB, Zero-Emission Space and Water Heater Standards: ABOUT, available at: <https://ww2.arb.ca.gov/our-work/programs/zero-emission-space-and-water-heater-standards/about>.

<sup>236</sup> D.23-04-035, OPs 3-7; CPUC, Energy Efficiency Natural Gas Incentive Phase-Out Staff Proposal (DRAFT), December 2025.

<sup>237</sup> MCE, About, available at: <https://mcecleanenergy.org/about/> (“Our mission is to confront the climate crisis by eliminating fossil fuel greenhouse gas emissions, producing renewable energy, and creating equitable community benefits.”).

<sup>238</sup> See Program Description in **Chapter 6: Portfolio Strategies**.

1           **13. Supporting Regional Electrification in the Bay Area**

2           MCE participates in an ongoing working group with a regional network of CCAs and the  
3 Bay Area Air District (“BAAD”) to support successful customer outcomes and the implementation  
4 of its Building Appliance Rules (Rules 9-4 and 9-6). MCE and CCAs coordinate on customer  
5 education, program offerings, program and rebate design best practices and offer technical advice  
6 to the BAAD. MCE also works closely with regional electrification efforts led by BayREN and  
7 PG&E to expand access to electrification resources and support customers across its service area.

8           **14. Layering External Funds**

9           To maximize customer benefits, MCE looks for opportunities to combine or “layer”  
10 decarbonization funding streams and incentives within its EE programs. MCE staff participate in  
11 a cross-team collaboration—the Emerging Opportunities Team—whose function is to identify and  
12 apply for external funds to layer into MCE programs. The Emerging Opportunities Team includes  
13 staff from several MCE teams including Strategic Initiatives, Customer Operations, Customer  
14 Programs and Policy teams. The Emerging Opportunities presently meets on a monthly basis with  
15 additional ad-hoc meetings as needed.<sup>239</sup> The Emerging Opportunities Team provides a vital,  
16 recurring space for MCE staff to prioritize and secure external funds. Additionally, the Emerging  
17 Opportunities Team provides the relevant team members across the organization with the  
18 opportunity to collaborate, strategize and build the administrative processes necessary for  
19 receiving and layering external funds.

20           MCE has been successful in stacking or layering the following external decarbonization  
21 funding sources within its existing 2024-2027 EE portfolio. MCE plans to continue to identify,  
22 apply for and layer external funding within its proposed 2028-2031 EE portfolio.

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<sup>239</sup> MCE’s Emerging Opportunities has at different times met on a biweekly basis.

- 1           • **Transformative Climate Communities:** MCE layers Transformative Climate  
2           Communities funds to support electrification projects in Richmond.<sup>240</sup>
- 3           • **Equitable Building Decarbonization (“EBD”):** MCE actively supported state  
4           funding for the EBD program and participated in the program design of the  
5           California Energy Commission’s (“CEC”) rulemaking.<sup>241</sup> The CEC selected  
6           Association for Energy Affordability (“AEA”) as the lead PA for the Northern  
7           California Region. MCE is an official partner with AEA on its PA team and is  
8           specifically engaged in supporting the program’s deployment in the “Initial  
9           Community Focus Areas” of the Contra Costa County Refinery Corridor and  
10          Richmond within MCE’s service area.<sup>242</sup>
- 11          • **MCE Self-Funded Ancillary Messages:** MCE regularly self-funds ancillary  
12          measures required for decarbonization (*e.g.*, light construction, drywall repair,  
13          electrical panel and capacity improvement, pest and environmental remediation) in  
14          support of its direct install programs that may not be fundable by other program  
15          sources.<sup>243</sup>
- 16          • **MCE Self-Funded Emergency Water Heater Loaner Program:** MCE’s  
17          Emergency Water Heater Loaner program<sup>244</sup> is offering eligible contractors a

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<sup>240</sup> City of Richmond, TCC Richmond Rising, available at: <https://www.ci.richmond.ca.us/4609/TCC-Richmond-Rising>.

<sup>241</sup> CEC, 22-DECARB-03, available at: <https://efiling.energy.ca.gov/Lists/DocketLog.aspx?docketnumber=22-DECARB-03>.

<sup>242</sup> CEC, EBD Statewide Direct Install Program, September 2025, available at: <https://www.energy.ca.gov/programs-and-topics/programs/equitable-building-decarbonization-program/ebd-statewide-direct>.

<sup>243</sup> MCE defines self-funded programs as programs supported through its net revenues that are allocated to programs at the discretion of the MCE Board.

<sup>244</sup> MCE, Emergency Water Heater Loaner program, available at: <https://mcecleanenergy.org/heat-pump-water-heater-incentive/>.

1           \$1,500 per-unit cash incentive for the installation of heat pump water heaters after  
2           installation of an emergency loaner in its service area. Contractors who participate  
3           in this program can offer an emergency loaner water heater to residents to ensure  
4           they have hot water while the contractor makes any necessary upgrades and installs  
5           a new heat pump water heater, which can take longer than installing a gas water  
6           heater.

7           **15. Participating in Building Decarbonization Proceedings**

8           MCE will continue to actively participate in CPUC and CEC regulatory proceedings that  
9           advance building decarbonization. For example, MCE participates in the Building  
10          Decarbonization Proceeding (R.19-01-011), Self-Generation Incentive Program Proceeding  
11          (R.20-05-012), Longterm Gas Planning Proceeding (R.24-09-012), Equitable Building  
12          Decarbonization Proceeding (CEC, 22-DECARB-03), and Inflation Reduction Act Proceeding  
13          (CEC, 23-DECARB-01). MCE is committed to staying engaged and providing leadership—  
14          especially on flexible resources, electrification, integration with EE and equity—while designing  
15          programs that offer customers the optimal mix of integrated solutions to support decarbonization  
16          and meet customer needs. MCE regularly communicates about its decarbonization focused EE  
17          programs in other building decarbonization proceedings, advocates for opportunities to  
18          beneficially stack, layer or coordinate EE programs with other decarbonization programs, and  
19          offers lessons learned through administration to support the greater advancement of building  
20          decarbonization strategies statewide.<sup>245</sup>

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<sup>245</sup> See e.g. MCE Opening Comments on Administrative Law Judges’ Ruling on Designating Priority Neighborhood Decarbonization Zones, August 2025, R.24-09-012.

## 1 Chapter 8: Stakeholder Engagement

2 Marin Clean Energy (“MCE”) conducted robust stakeholder engagement in the preparation  
3 of its energy efficiency (“EE”) Business Plan Application (“Application”). MCE conducted its  
4 stakeholder engagement in advancement of the California Public Utilities Commission (“CPUC”  
5 or “Commission”) *Environmental and Social Justice Action Plan* Goal 1: “Consistently integrate  
6 equity and access considerations throughout CPUC regulatory activities” and Goal 5: “Enhance  
7 outreach and public participation opportunities for ESJ communities to meaningfully participate  
8 in the Commission’s decision-making process and benefit from CPUC programs.”<sup>246</sup>

9 MCE is committed to meaningfully engaging with stakeholders, especially local  
10 community-based organizations (“CBO”) during the design, implementation and evaluation of its  
11 EE portfolio programs.<sup>247</sup> As a program administrator (“PA”) since 2013, MCE finds that ongoing  
12 stakeholder engagement and opportunities for customers and communities are essential ingredients  
13 for the success of its EE programs.<sup>248</sup> MCE regularly conducts a variety of ongoing stakeholder  
14 outreach activities to continuously seek feedback from the customers and communities it serves.  
15 These activities are described as MCE’s “Community-Based Design.” Additionally, MCE  
16 conducted significant stakeholder outreach for the preparation and submission of this Application.

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<sup>246</sup> CPUC, *Environmental and Social Justice Action Plan Vol. 2*, April 2022, available at: <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf>, pp. 4-5.

<sup>247</sup> The Greenlining Institute, *Equitable Building Electrification Framework*, 2019, available at: <https://greenlining.org/publications/equitable-building-electrification-a-framework-for-powering-resilient-communities/> (“Rich community input and engagement strengthen the overall program design quality with stronger cultural competence, ensure local buy-in and investment, and deliver tangible local benefits rooted in the lived experiences of everyday people. Partner with community-based organizations to develop a decision-making process that ensures that decisions are based on community needs and priorities.”)

<sup>248</sup> BEEP Coalition, *Building Energy, Equity & Power (BEEP) Coalition: Findings from Statewide Listening Sessions Presentation to the AB 32 Environmental Justice Advisory Committee* (April 2022), available at: [https://ww2.arb.ca.gov/sites/default/files/2022-04/BEEP%20Slides\\_4.26.22.pdf](https://ww2.arb.ca.gov/sites/default/files/2022-04/BEEP%20Slides_4.26.22.pdf) at p. 5 (“Equitable Process + Meaningful Engagement.”).

1 These activities are described as “Application Stakeholder Engagement.” In this chapter, MCE  
2 describes the stakeholder engagement activities it conducted, the feedback received, and how it  
3 addressed feedback in this Application. MCE thanks all engaged stakeholders for their time,  
4 expertise, willingness to participate, and valuable feedback. MCE views stakeholder engagement  
5 as both a verb and a value critical to achieving its mission to confront the climate crisis with  
6 community-based solutions. These stakeholders’ feedback is reflected throughout this Application  
7 and has been threaded through MCE’s operations, plans, and mission since its founding. MCE  
8 looks forward to ongoing stakeholder engagement throughout the implementation of its proposed  
9 portfolio and business plan.

#### 10 1. MCE Community-Based Design

11 MCE conducted the following ongoing community-based design stakeholder outreach  
12 activities related to its EE portfolio during program years (“PY”) 2024-2027:

- 13 • **Local Contractors:** MCE conducted twenty interviews with local contractors on  
14 electrification and permitting barriers.
- 15 • **Residential Customers:** MCE completed 119 surveys of residential customers on  
16 electrification barriers and equitable electrification.
- 17 • **Low-and Moderate-Income Program Participants:** MCE distributed 223 surveys to  
18 Home Energy Savings-Equity program participants following their receipt of direct install  
19 measures. MCE staff called direct install participants directly. Seventy-eight completed  
20 program feedback surveys. Of respondents, 96% of participants were 100% satisfied.
- 21 • **Small Business:** MCE surveyed 81 small businesses on EE needs and participation barriers  
22 when developing its Small Business Energy Advantage (“SBEA”). MCE surveyed small  
23 businesses via online workshops and online and telephone surveys.
- 24 • **Local Permitting Authorities:** MCE conducted nine interviews with local permitting  
25 authorities on various topics including permitting barriers to decarbonization and direct  
26 installs.
- 27 • **Contractor Power Breakfast:** MCE hosted a contractor power breakfast in August 2025  
28 seeking feedback from local contractors and labor unions on a variety of EE program,  
29 decarbonization workforce issues, and program design/implementation strategies. Twenty-  
30 six representatives of local contractors and labor unions participated.

- 1 • **Municipal Engagement:** MCE staff regularly hold, 1:1 sessions with its 38 member  
2 communities to ensure the agency supports local priorities. This flexible approach allows  
3 MCE to provide deeper and more attuned assistance to highly active communities, while  
4 also facilitating multi-city collaborative efforts to advance shared regional goals. Through  
5 these interactions, MCE Community Engagement staff regularly share program updates,  
6 and solicit feedback from municipal staff on ways to support community members.

## 7 **2. Application Stakeholder Engagement**

8 During the development of this Application, MCE conducted 12 stakeholder engagement  
9 activities and engaged over 200 organizational stakeholders. Thirty organizational stakeholders  
10 formally participated in MCE’s Application stakeholder engagement. MCE welcomed participant  
11 feedback in roundtable discussions, individual conversations, existing meetings, over email, and  
12 via a written survey. MCE hosted three external group stakeholder engagement sessions, six  
13 stakeholder conversations with organizations, one internal all-staff engagement session, and  
14 participated in a California Energy Efficiency Coordinating Committee (“CAEECC”) Application  
15 Formal Consult.

### 16 **2.1 Application Stakeholder Engagement Activities**

- 17 • **MCE Community Power Coalition Engagement:** MCE invited 160 organizations in its  
18 Community Power Coalition<sup>249</sup> (“ComPow”) to a virtual discussion on its draft  
19 Application. Seventeen organizational and local government entities attended the event and  
20 provided substantive feedback. MCE staff presented on the history of its EE programs,  
21 controlling CPUC regulatory authorities and history, existing portfolio programs, potential

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<sup>249</sup> MCE’s Community Power Coalition is a network of social, racial, and environmental justice organizations that do feet-on-the-street work to address inequities in our local communities. MCE partners with coalition members to: address climate change and eliminate the use of fossil fuels in our communities; create learning opportunities about climate justice for community-based organizations; expand access to renewable energy services and customer programs; encourage participation in the design and execution of MCE’s energy equity programs and policies. *See Appendix 1* to this Chapter. MCE’s Community Power Coalition includes 115 organizational members. The Community Power Coalition invitation to the Application feedback session included 185 organizations.

1 new programs and measure offerings, and policy recommendations. Participants asked  
2 questions and provided recommendations on MCE’s draft Application. MCE submitted a  
3 written survey on its draft Application to participants following the meeting (see *infra*).

4 • **MCE Community Roundtable:** MCE hosted a virtual community roundtable discussion  
5 on its draft Application. MCE invited 29 organizational or local government attendees via  
6 email. Five organizational attendees participated in the discussion and provided helpful  
7 feedback.

8 • **Stakeholder Conversations:** MCE invited 11 organizations to participate in individual  
9 stakeholder conversations, and ultimately conducted six virtual conversations with seven  
10 of these stakeholders on its draft Application. The focus of each conversation varied  
11 according to the stated priorities of participants. Topic areas included building  
12 electrification, cost-effectiveness strategies, affordability and bill savings strategies,  
13 demand-side management strategies, small business strategies, and coordination with other  
14 programs. The following seven organizations participated in MCE’s individual stakeholder  
15 conversations:

- 16 ○ Bay Area Regional Energy Network (“BayREN”).
- 17 ○ Earthjustice and Sierra Club.
- 18 ○ Natural Resources Defense Council (“NRDC”).
- 19 ○ Rising Sun Center for Opportunity (“Rising Sun”).
- 20 ○ California Energy Demand Management Council (“the Council”).
- 21 ○ California Public Advocates Office (“Cal Advocates”).

1 The four invited organizations that did not participate in stakeholder conversations noted  
2 they lacked capacity, prioritized competing commitments, recommended an alternative  
3 organization for participation, or did not respond to email invitations.

4 • **Written Survey:** After its Community Power Coalition engagement (see *supra*), MCE  
5 shared its written survey attached as **Appendix 2** with participants its Community Power  
6 Coalition. MCE received 6 detailed responses to its written survey.

7 • **MCE All-Staff Presentation and Discussion:** MCE presented on its draft Application and  
8 sought feedback from all its staff in a virtual meeting. MCE staff—even those outside of  
9 the Customer Programs and Policy Team staff that regularly design and implement its  
10 portfolio programs—possess incredible expertise in energy program design methods;  
11 education and outreach strategies; potential areas for program stacking and collaboration  
12 with other MCE programs external to the portfolio; and service area community needs  
13 expressed in other venues. Forty-six MCE staff attended the event and provided relevant  
14 feedback.

15 • **California Energy Efficiency Coordinating Committee:** On December 9, 2025, MCE  
16 participated in the CAEECC Full Quarterly Meeting #48 on the Formal [Application]  
17 Consult. “There were 110 attendees, including representatives from 21 CAEECC Member  
18 organizations and five attendees from two CAEECC Ex-Officio agencies as well as 84  
19 Members of the Public.”<sup>250</sup> MCE presented on its draft Application including its proposed  
20 preliminary budget, cost-effectiveness, community-based design strategies, affordability  
21 strategies, decarbonization strategies, stakeholder outreach, and noteworthy potential

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<sup>250</sup> CAEECC, Full Quarterly CAEECC Meeting #48 Summary, December 2025, available at: [https://www.caeecc.org/\\_files/ugd/849f65\\_588853e58c344e7eb2a7380896679ae2.pdf](https://www.caeecc.org/_files/ugd/849f65_588853e58c344e7eb2a7380896679ae2.pdf), p. 1.

1 updates to its portfolio. CAEECC attendees asked questions about the Equity segment  
 2 budget cap, and commercial normalized metered energy consumption (“NMEC”)  
 3 program.<sup>251</sup>

4 **2.2 Summary of Stakeholder Engagement Feedback**

5 MCE reviewed the detailed draft Application feedback from engaged stakeholders and  
 6 organized it into 9 distinct themes. MCE submits each theme, a summary of corresponding  
 7 feedback, and its corresponding responses in the following table.

8 **Table 8-1: Stakeholder Engagement Feedback**

<b>Theme</b>	<b>Feedback</b>	<b>MCE Response</b>
<b>Continuous community engagement</b>	Establish ongoing, continuous feedback mechanisms with community advocates and promoters and share presentation materials in advance.	<ul style="list-style-type: none"> <li>- In implementing this Application, MCE will continue to host contractor engagement meetings to solicit feedback for our contractor led programs as well as educate contractors on our programs.</li> <li>- In implementing this Application, MCE will continue to host its annual ComPow Symposium and will ensure accessible opportunities for EE program feedback.</li> <li>- In implementing this Application, MCE will incorporate EE programmatic topics into more future ComPow meetings.</li> <li>- In this Application, the SBEA program includes a CBO partners network to support programmatic design and implementation.</li> <li>- In implementing this Application, MCE’s Engagement team will conduct more outreach with CBOs for EE program outreach, enrollment and feedback.</li> </ul>
<b>Maintain financial accessibility through program design</b>	Maintain and expand financial accessibility through subsidies, incentives, and on-bill financing, including expansion to higher-income households and market-rate renters.	<ul style="list-style-type: none"> <li>- MCE redesigned its Residential Flex Market to remove income qualifications and allow it to serve higher-income households in addition to other customers.</li> <li>- In implementing this Application, MCE will monitor the federal Home Efficiency Rebate program administered by the California Energy Commission and seek methods to stack rebates.</li> </ul>

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<sup>251</sup> *Id.*, pp. 6-7.

		<ul style="list-style-type: none"> <li>- In implementing this Application, MCE will continue collaboration with PG&amp;E On-bill Financing (“OBF”) programs for development of and stackability with its Commercial SEM program projects.</li> <li>- In implementing this Application, MCE will contribute its own funds for ancillary measures in electrification projects.</li> <li>- In implementing this Application, MCE will continue to staff its cross-team collaboration—the Emerging Opportunities Team—to identify and apply for external funds to layer into EE portfolio programs. MCE will update the scope of its Emerging Opportunities Team to look for external funding opportunities specifically complementary to its Application. <i>See Chapter 7: Portfolio Coordination</i> for additional discussion of MCE’s Emerging Opportunities Team.</li> </ul>
<p><b>Prioritize and optimize cost-effectiveness</b></p>	<p>Focus on the most cost-effective programs while avoiding duplication, but continue leadership on job quality and labor standards.</p>	<ul style="list-style-type: none"> <li>- In this Application, MCE proposes closing its underperforming SEM subprograms including the Multi-family Strategic Energy Management (“SEM”) subprogram and the Agricultural SEM subprogram.</li> <li>- In this Application, MCE reduced several program budgets to better align with EE market opportunity in our service area.</li> <li>- In this Application, MCE proposes a cost-effective portfolio. <i>See Chapter 4: Forecast Methodology and Zero-Based Budgeting.</i></li> <li>- In this Application, MCE included two cost-effective complements to its existing Equity segment programs: Home Energy Savings-Resource and Multifamily Energy Savings-Resource. These programs will increase the number of cost-effective measures deployed in MCE’s service area.</li> <li>- In this Application, MCE includes best practices for achieving high-total system benefit. <i>See Chapter 3: Portfolio Strategies.</i></li> </ul>

<p><b>Enhance workforce development and job quality</b></p>	<p>Explicitly reference and adopt High Road Training Partnership (H RTP) labor standards in programs like Home Energy Savings, and support refinery worker transition to green jobs.</p>	<ul style="list-style-type: none"> <li>- In implementing this Application, MCE will continue its participation in the Bay Area Residential Building Decarbonization High Road Training Partnership (“H RTP”).<sup>252</sup></li> <li>- MCE updated its Green Workforce Pathways program to better incentivize program participants (employers) to meet H RTP labor standards.</li> <li>- MCE will continue to build partnerships with local colleges, school districts, and workforce organizations to build pipelines to the green workforce. Activities include but are not limited to: field trips to local renewable projects, participating in college and career fairs, and promoting paid internship opportunities at MCE.</li> </ul>
<p><b>Continue targeting hard-to-reach populations and renters</b></p>	<p>Improve targeting strategies for low-income and hard-to-reach (H TR) residents outside low-income communities. Expand programs to include market-rate renters and multi-family units.</p>	<ul style="list-style-type: none"> <li>- In implementing this Application, SBEA, which serves ESJ and H TR small business customers, will leverage its CBO partners network to improve its outreach strategies.</li> <li>- In this Application, MCE proposes a policy recommendation to raise the Equity segment and Market Support segment budget caps proportionally to equity populations in service areas. <i>See Chapter 11: Policy Recommendations.</i></li> <li>- In this Application, MCE seeks funding to continue its Home Energy Savings-Equity program, and its Multifamily Energy Savings-Equity program serving residential Equity customers.</li> <li>- In implementing this Application, The Green Workforce Pathways Program (GWPP) will continue to target electrification benefits to Equity customers within service area.</li> <li>- Building on its efforts to expand accessibility for H TR communities, MCE: 1) conducted a language study to inform its approach to engaging with non-English speaking populations, 2) co-created its language accessibility guidelines with feedback from its Community Power Coalition, and 3) hosted a disability awareness training for its staff</li> </ul>

<sup>252</sup> Rising Sun Center for Opportunity, Bay Area Residential Building Decarbonization High Road Training Partnership Summary, 2021, available at: <https://risingsunopp.org/wp-content/uploads/Rising-Sun-Bay-Area-Residential-Building-Decarb-H RTP-Summary.pdf>.

		<p>members to center the needs of people with disabilities across the agency’s efforts.</p> <ul style="list-style-type: none"> <li>- MCE’s Community Partnership Program intentionally partners with community-based organizations to target HTR communities. This includes primarily Spanish-speaking populations, low-income populations, and small businesses that may also be low-income and/or Spanish-speaking.</li> </ul>
<p><b>Community education and health integration</b></p>	<p>Strengthen community education connecting energy efficiency to health and air quality and ensure program materials continue to be provided in multiple languages.</p>	<ul style="list-style-type: none"> <li>- The SBEA program currently offers direct install air purifiers for small businesses. The SBEA program also provides related customer education forms in Spanish and English. MCE will also conduct a NEBs survey to understand how the program is providing NEBs to customers, which will include questions regarding air quality and health.</li> <li>- MCE’s HES-R, MFES-R, HES-E, and MFES-E direct install programs offer EE and electrification measures that improve health and air quality. In implementing this Application, MCE will continue discussing health and air quality with customers as part of its outreach and recruitment into its programs. Health and air quality improvements are a key part of energy efficiency and electrification upgrades, so they are included with the customers as a benefit of the measures.</li> <li>- The GWPP promotes health improving electrification and EE measures through education opportunities for contractors. In implementing this Application, MCE will explore methods for contractors to share this information directly with customers.</li> <li>- In implementing this Application, MCE will consider including in Strategic Energy Management education modules related to environmental health and safety for commercial customers.</li> <li>- MCE’s electrification measures, both commercial and residential, often require health and safety remediation measures and produce many related co-benefits. In implementing this Application, MCE will continue to explore external funding</li> </ul>

		<p>opportunities for additional health and safety remediation measures.</p> <ul style="list-style-type: none"> <li>- MCE collaborates with its Community Power Coalition to understand the needs of HTR communities, including people who are proficient in languages other than English and people who have disabilities, and integrate learnings into its programs and services. MCE will continue to work with experts in these fields to achieve high quality standards for serving HTR communities.</li> <li>- MCE’s Community Partnership Program focuses largely on customer education and outreach with a particular focus on Spanish-speaking and/or low-income populations. This includes increasing awareness of bill savings programs, energy efficiency resources and general knowledge, and conservation tips.</li> </ul>
<b>Promote program capacity and utilization to local government partners</b>	<p>Communicate regularly about which programs have available capacity so that community partners can help promote and maximize their reach.</p>	<ul style="list-style-type: none"> <li>- In implementing this Application, MCE will communicate with ComPow members about EE programs and opportunities.</li> <li>- In implementing this Application, MCE will communicate about EE programs in its ongoing municipal meetings with local government partners across its service area. In implementing this Application, MCE will monitor municipal interest in energy efficiency and, where cities express interest, will promote and support participation in this program.</li> <li>- MCE provides a quarterly digital communications toolkit in both English and Spanish for our municipal partners and community-based organizations to use. It includes social media and newsletter content that can be easily shared to promote programs, resources, and general energy education.</li> </ul>
<b>Coordination with other programs</b>	<p>Maximize customer engagement and recommend streamlining enrollment processes for customers to participate in multiple beneficial programs administered by MCE. Recommend stacking programs, when possible, to offer</p>	<ul style="list-style-type: none"> <li>- MCE discusses its coordination with other programs and efforts to improve customer participation in <b>Chapter 7: Portfolio Coordination</b>.</li> <li>- In implementing this Application, MCE will contribute its own funds for ancillary measures in electrification projects.</li> <li>- In implementing this Application, MCE will continue to staff its cross-team collaboration—the Emerging Opportunities Team—to identify</li> </ul>

	<p>deeper benefits to greater number of customers.</p>	<p>and apply for external funds to layer into EE portfolio programs. MCE will update the scope of its Emerging Opportunities Team to look for external funding opportunities specifically complementary to its Application.</p> <ul style="list-style-type: none"> <li>- In implementing this Application, MCE will continue to partner with other bay area community choice aggregators through an existing coordination group on the BAAD Building Appliance Rules for additional program coordination opportunities.</li> <li>- In implementing this Application, MCE will participate as a partner in the Initial Community Focus Areas of the Refinery Corridor in Contra Cost County and Richmond for the Equitable Building Decarbonization program – Northern California Region. MCE will coordinate with program administrator Association for Energy Affordability to streamline processes for customers and deliver greater benefits to more customers.</li> <li>- In implementing this Application, MCE will continue to support Senate Bill 1221 (Min, 2024) priority neighborhood decarbonization pilots in its service area through participation in the Longterm Gas Planning Proceeding (Rulemaking 24-09-012). MCE will look to coordinate its EE portfolio programs with any pilots in its service area.</li> </ul>
<p><b>Electrification and technology integration</b></p>	<p>Consider cutting-edge energy efficiency technologies. Promote and support electrification technologies, including those that can serve low-income customers. Consider establishing an MCE-owned electric vehicle (“EV”) charging network in the service area.</p>	<ul style="list-style-type: none"> <li>- In this Application, MCE proposes several programs with electrification measures: HES-R, MFES-R, HES-E, MFES-E, SBEA, and the Residential Flex Market program.</li> <li>- In this Application, MCE proposes several programs with electrification measures specifically serving low-income or Equity customers: HES-E, MFES-E, and SBEA.</li> <li>- In this Application, MCE proposes a new Low-Global Warming Potential (“GWP”) Refrigerant Accelerator program that will incentivize ultra-low and low-global warming potential (“GWP”) products and technologies.</li> <li>- In implementing its Application, MCE will explore new technologies throughout PYs 2028-2031 for potential use and integration.</li> </ul>

		<ul style="list-style-type: none"><li>- In implementing its Application, MCE will explore opportunities with its Virtual Power Plant, MCE Sync, and integrated demand side management (“IDSM”) program to further unlock and share additional benefits of EV charging in its service area.</li></ul>
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# APPENDIX 1

## Appendix 1

### MCE Community Power Coalition

MCE’s Community Power Coalition is a network of approximately 160 social, racial, and environmental justice organizations that do feet-on-the-street work to address inequities in our local communities. MCE’s Community Power Coalition meets bimonthly with a variety of MCE staff and stakeholders.

MCE partners with coalition members to:

- Address climate change and eliminate the use of fossil fuels in our communities.
- Create learning opportunities about climate justice for community-based organizations.
- Expand access to renewable energy services and customer programs.
- Encourage participation in the design and execution of MCE’s energy equity programs and policies.

In 2025, MCE hosted 6 Community Power Coalitions meetings. Cumulatively, 230 people were engaged to discuss topics including MCE youth programming, Community Partnership Program, Affordability, Charged by Public Power, Climate Justice Engagement and Education for enhancing language accessibility, and MCE’s CPUC Energy Efficiency Application for 2028-2031.

#### MCE Community Power Coalition Members

1.	10,000 Degrees
2.	23rd Street Merchants Association (Richmond)
3.	350 Contra Costa
4.	4th Second - Vallejo
5.	Act Now Bay Area
6.	Aging Action Initiative/ Public Authority of Marin
7.	Asian Pacific Environmental Network (APEN)
8.	Bay Area Air District (BAAD)
9.	Bay Area Climate Reality, Contra Costa County
10.	Bay Front Chamber of Commerce
11.	Benicia Main Street
12.	Benicia Tree Foundation
13.	Bike East Bay
14.	California Green Business Network
15.	Calistoga Chamber of Commerce
16.	Canal Alliance
17.	Center for Human Development
18.	Emerald Cities
19.	City of American Canyon
20.	City of Benicia

21.	City of Calistoga
22.	City of Concord
23.	City of El Cerrito
24.	City of Fairfield
25.	City of Lafayette
26.	City of Martinez
27.	City of Napa
28.	City of Novato
29.	City of Oakley
30.	City of Pinole
31.	Rubicon Programs
32.	City of Pittsburg
33.	City of Pittsburg Economic Development
34.	City of Pleasant Hill
35.	City of Richmond
36.	Rising Sun Center for Opportunity
37.	City of Richmond
38.	City of San Pablo
39.	Strategic Energy Innovations (SEI)
40.	City of San Ramon
41.	City of St. Helena
42.	City of Vallejo
43.	City of Walnut Creek
44.	Climate Reality Bay Area, Chapter
45.	Climate Reality Bay Area, Contra Costa County Policy Action Squad
46.	Climate Reality Bay Area, Solano/Napa Chapter
47.	Cobiz Richmond
48.	Comité de Negocios Hispanos de Concord
49.	Commonweal
50.	Communities for a Better Environment
51.	Contra Costa Clean Energy Alliance
52.	Contra Costa County
53.	Contra Costa County Climate Leaders (4CL)
54.	Contra Costa County Health Department
55.	Contra Costa County Library
56.	Contra Costa Crisis Center
57.	Contra Costa Family Justice Center
58.	Contra Costa Senior Legal Services
59.	County of Contra Costa, Department of Conservation and Development
60.	County of Marin
61.	County of Marin (Sustainability team)
62.	East Bay Leadership Council
63.	East Contra Costa Community Alliance (ECCCA)
64.	East County Networking Group
65.	El Cerrito Chamber of Commerce

66.	El Cerrito Progressives
67.	El Sobrante Chamber of Commerce
68.	El Timpano
69.	City of Richmond
70.	YES Nature to Neighborhoods
71.	Empowered Aging
72.	Energy for All Program
73.	Environmental Education Coalition of Napa County
74.	Filipino Community of Solano County
75.	First 5 Contra Costa
76.	First Chance Vallejo
77.	Foodbank of Contra Costa and Solano County
78.	Fresh Air Vallejo
79.	Green Business Program Contra Costa County
80.	Green Change
81.	Rising Sun
82.	GRID Alternatives
83.	Hijas del Campo
84.	Indivisible Marin
85.	Interfaith Climate Action Network of Contra Costa
86.	Kensington Greens
87.	Kimley-Horn
88.	La Clinica de La Raza
89.	Lafayette Chamber of Commerce
90.	Lafayette Community Foundation
91.	Land Trust of Napa County
92.	Lawrence Berkeley National Laboratory
93.	GRID Alternatives
94.	Marin Center for Independent Living
95.	Marin City Community Development Corporation
96.	Marin Climate and Energy Partnership
97.	Marin Conservation League
98.	Marin County Bicycle Coalition
99.	Marin Sonoma Electrification Squad
100.	MarinCAN
101.	MAVA (Mexican American Vintners Association)
102.	Monument Crisis Center
103.	Monument Impact
104.	Napa Climate NOW!
105.	Napa County
106.	Napa County Bicycle Coalition
107.	Napa County Hispanic Chamber of Commerce
108.	Napa County Hispanic Network
109.	Napa Resource Conservation District
110.	Napa Valley Farmworker Foundation

111.	No Coal In Richmond
112.	North Marin Community Services
113.	The Utilities Reform Network
114.	Opportunity Junction
115.	Organizing for Action, Marin
116.	Orlando Graham
117.	People Who Care
118.	Pinole Progressive Alliance
119.	Rainbow Community Center
120.	RCF Connects
121.	Récolte Energy
122.	Resilient Neighborhoods
123.	Rich City Rides
124.	Richmond LAND
125.	Richmond Main Street and Soul Food Festival
126.	Richmond Our Power Coalition
127.	RichmondBUILD
128.	Ride & Drive Clean
129.	Rising Juntos
130.	City of San Rafael
131.	LIME Foundation
132.	Center for Sustainable Energy
133.	Rising Sun
134.	City of Pittsburg
135.	Safe Return Project
136.	San Anselmo Climate Action Committee
137.	San Pablo Economic Development Corporation
138.	Sausalito Sustainability Commission
139.	SF Bay Area Hispanic Chamber of Commerce
140.	Sierra Club
141.	Social Good Fund
142.	Solano County
143.	Solano Filipino American Chamber of Commerce (Vallejo)
144.	Solano Hispanic Chamber of Commerce
145.	Solano Resource Conservation District
146.	Stephanie Moulton-Peters, Marin Supervisor
147.	Safe Return Project
148.	Studio PR
149.	Sustainable Walnut Creek
150.	Sustainable Contra Costa
151.	Sustainable Lafayette
152.	Sustainable Rossmoor
153.	The Energy Alliance Association
154.	The Latina Center
155.	The Nature Conservancy

156.	Emerald Cities
157.	Todos Santos Business Assoc.
158.	Town of Danville
159.	Town of Moraga
160.	UpValley Family Centers
161.	Vallejo Chamber of Commerce
162.	Vivalon
163.	White Pony Express
164.	Yountville Chamber of Commerce
165.	Fairfax Climate Action Committee; 350Marin
166.	Benicia Sustainability Committee
167.	Solano County
168.	San Anselmo Climate Commission
169.	Quit Carbon
170.	Napa County Hispanic Network
171.	Solano Hispanic Chamber
172.	Community Action Marin
173.	Contra Costa County Department of Conservation and Development
174.	Town of Corte Madera
175.	City of Novato, Sustainability Commission
176.	GRID Alternatives
177.	Office of Assembly Member Damon Connolly
178.	San Anselmo Climate Action
179.	Simon Construction
180.	Town of Corte Madera
181.	Town of San Anselmo, Town of Fairfax
182.	MCIL
183.	Puertas Abiertas Community Resource Center
184.	San Pablo Economic Development Corporation
185.	Napa County

1 **Chapter 9: Evaluation, Measurement & Verification**

2 **1. Planned Evaluation, Measurement & Verification Studies and Activities**

3 During the 2028–2031 portfolio cycle, Marin Clean Energy (“MCE”) plans to advance  
4 Evaluation, Measurement, and Verification (“EM&V”) studies that build on lessons learned from  
5 earlier program years (“PY”) to refine implementation practices, improve program integration,  
6 improve program cost-effectiveness, and strengthen equity outcomes.

7 The proposed EM&V studies reflect those that are appropriate for a portfolio that has  
8 transitioned from early pilot testing to operational maturity. Through the management and  
9 development of MCE’s energy efficiency (“EE”) portfolio, MCE has identified areas where  
10 additional knowledge and verification methods can enhance value, efficacy, and transparency.  
11 Each study is intentionally designed to deepen MCE’s understanding of program performance,  
12 persistence, and customer experience. MCE anticipates, consistent with historic trends across the  
13 portfolios, that EM&V studies may take two years to complete. MCE correspondingly proposes  
14 three priority areas for EM&V studies and activities to be completed throughout the four- and  
15 eight-year portfolio periods.

16 MCE’s 2028–2031 EM&V priorities focus on three complementary objectives central to  
17 MCE’s 4- and 8-year plans.

- 18 1. **Integration and Optimization:** Evaluating the early implementation of MCE’s Integrated  
19 Demand-Side Management (“IDSM”) program to inform system interoperability and grid-  
20 interactive strategies;
- 21 2. **Equity and Access:** Assessing retrofit and electrification pathways for manufactured  
22 homes, a historically underserved housing type in MCE’s service area and statewide; and
- 23 3. **Persistence and Capacity Building:** Analyzing the experience of and outcomes associated  
24 with the 2028 graduates of MCE’s Strategic Energy Management (“SEM”) program to  
25 measure long-term energy savings persistence and leadership development in energy  
26 management.

1 These priorities also advance the MCE’s goals and portfolio strategies as stated in **Chapter 3:**  
2 **Portfolio Strategies**, ensuring that programs are advancing affordability, optimizing Total System  
3 Benefit (“TSB”) achievements and cost effectiveness, and increasing progress on the California  
4 Public Utilities Commission (“CPUC”) Environmental and Social Justice (“ESJ”) Action Plan  
5 goals. Together, these studies—discussed below—will generate actionable insights that can guide  
6 MCE’s continuous improvement in its program design, customer engagement, and long-term  
7 emissions reduction planning across its portfolio. They will also generate public information,  
8 recommendations, analyses, and conclusions that will be useful for the EE, equity, and  
9 decarbonization efforts of regional and statewide partners.

### 10 **1.1 Integrated Demand-Side Management Study**

11 MCE plans to conduct a portfolio-wide, process-oriented EM&V study to evaluate the  
12 early implementation of its IDSM program, the Peak Flex Market program,<sup>253</sup> which is scheduled  
13 to launch by the end of Quarter 1 of 2026. By 2028, the Peak Flex Market program will have  
14 completed at least one full year of implementation, providing sufficient operational data and  
15 participant feedback to inform a process evaluation.

16 The study will examine how MCE’s integrated EE and demand-side management program  
17 design performs in practice and identify areas for improvement as the program scales.<sup>254</sup>

18 Key topics will include:

- 19 • Coordination of EE measures with demand-side management (“DSM”) and distributed  
20 energy resource (“DER”) participation;
- 21 • Customer participation pathways and engagement barriers for integrated offerings;
- 22 • Interoperability of systems, data sharing, and communications between EE tracking, DSM  
23 control platforms, and MCE’s data systems;
- 24 • Savings persistence and baseline accuracy across integrated interventions; and

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<sup>253</sup> See MCE AL 74-E and CPUC Resolution E-5387.

<sup>254</sup> MCE acknowledges and confirms its IDSM program, the Peak Flex Market program, may not use EE funds for event-based DR pursuant to Resolution E-5387 at pp. A-32 – A-35.

- 1 • Insights gained from coordination with MCE’s Virtual Power Plant (“VPP”) pilot,<sup>255</sup> which  
2 operates separately from the EE portfolio, and is currently focused on serving Richmond,  
3 California specifically, but shares complementary load-shifting and grid-interactive  
4 objectives.

5 The process evaluation will also explore how emerging tools (such as AI-assisted load forecasting)  
6 can improve the efficiency and responsiveness of IDSM. Findings will help MCE refine its IDSM  
7 delivery model, establish metrics for grid and customer benefits that can be pulled from both IDSM  
8 and EE data sources and systems, and inform CPUC and statewide discussions on best practices  
9 for program integration in service of greater reliability and total system benefits.

10 **1.2 Manufactured Home Decarbonization Study**

11 MCE plans to conduct an EM&V study focused on identifying cost-effective retrofit  
12 strategies to support the decarbonization of existing manufactured homes within its service area.  
13 Manufactured homes represent a critical equity and emissions-reduction opportunity, as these  
14 households often face higher energy burdens, limited access to capital, and unique structural  
15 challenges that complicate electrification. As the California Energy Commission noted in its  
16 Equitable Building Decarbonization Program Guidelines:

17 Manufactured homes and mobile homes face unique challenges to  
18 decarbonization, including low electrical capacity, limited space  
19 availability for decarbonization measures, and higher remediation  
20 needs. In addition, retrofits of manufactured homes must comply

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<sup>255</sup> MCE, *MCE’s Virtual Power Plant Pilot in Richmond*, available at: <https://mcecleanenergy.org/virtual-power-plant/> (MCE’s VPP currently serves Richmond, CA exclusively, but MCE plans to expand service in the future to other parts of its service area); CEC, Solicitations, GFO-23-309 - Virtual Power Plant Approaches for Demand Flexibility (VPP-FLEX), 2023, available at: <https://www.energy.ca.gov/solicitations/2024-03/gfo-23-309-virtual-power-plant-approaches-demand-flexibility-vpp-flex>. CEC, Notice of Proposed Awards GFO-23-309, available at: <https://www.energy.ca.gov/media/11341> (NOPA Table Group 1).

1 with the National Manufactured Home Construction and Safety  
2 Standards rather than state and local building codes.<sup>256</sup>

3 The residents of manufactured homes are also disproportionately vulnerable to many of the  
4 effects of climate change. Manufactured homes “tend to be energy inefficient and are difficult to  
5 heat and cool, making them expensive to own and dangerous to live in during heat waves and cold  
6 snaps.”<sup>257</sup> The siting of manufactured homes can also make residents more impacted by high  
7 winds, extreme weather, flooding, poor water quality and erosion.<sup>258</sup> Further, the complex  
8 regulatory and ownership structure of manufactured homes creates potential challenges in program  
9 implementation. As the Building Energy, Equity, & Power Coalition describes, “Different aspects  
10 of manufactured homes and mobile home parks are regulated individually at the federal, state, and  
11 local level making implementation processes more challenging.”<sup>259</sup> The unique decarbonization  
12 needs of manufactured home residents requires more studies and greater analysis.

13 This study will explore:

- 14 • Passive design and weatherization improvements suitable for existing manufactured
- 15 housing stock;
- 16 • Sealing, insulation, and ventilation measures that can enhance comfort and reduce energy
- 17 loss;
- 18 • Pathways for electrification retrofits, including efficient space conditioning, water heating,
- 19 and cooling technologies;
- 20 • Financing and implementation models that make upgrades more accessible to low-income
- 21 and fixed-income residents; and
- 22 • The impacts of the above on total system benefits and the total resource cost ratio for this
- 23 historically underserved housing type.

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<sup>256</sup> CEC, *Equitable Building Decarbonization Program Guidelines* (2023), available at: <https://www.energy.ca.gov/publications/2023/equitable-building-decarbonization-direct-install-program-guidelines>, p. 13.

<sup>257</sup> Urban Institute, *Mobile Homes Are Vulnerable to Climate Extremes. Here’s What Policymakers Can Do Before the Next Disaster*, January 2025, available at: <https://www.urban.org/urban-wire/mobile-homes-are-vulnerable-climate-extremes-heres-what-policymakers-can-do-next>.

<sup>258</sup> *Id.*

<sup>259</sup> Building Energy Equity & Power Coalition (BEEP), *Coalition Comments on Equitable Building Decarbonization Program Draft Guidelines*, June 2023, available at: <https://efiling.energy.ca.gov/GetDocument.aspx?tn=250886&DocumentContentId=85796>.

1 The recent passage of Assembly Bill 806 (Connolly, 2025), which prohibits restrictions on the  
2 installation of cooling systems in mobile home parks, demonstrates the importance of ensuring  
3 residents have equitable access to efficient electric cooling options.<sup>260</sup> It also reflects the  
4 importance of employing nuanced, well-informed, and targeted approaches to removing historic  
5 barriers to service for this housing type. By studying retrofit pathways and coordination  
6 mechanisms with local jurisdictions, MCE aims to develop a credible foundation for future  
7 programs that improve comfort, safety, and affordability for residents of manufactured homes.

8 Data gaps on manufactured homes remains a key barrier to their residents benefiting from  
9 building decarbonization, EE programs, and a clean energy transition more broadly.<sup>261</sup> As the  
10 Natural Resources Defense Council (“NRDC”) explains, “Manufactured homes are a critical piece  
11 of California’s affordable housing puzzle, yet they remain one of the most misunderstood and  
12 undercounted segments of the housing stock. Data collection of these homes is often patchy across  
13 regions, resulting in an incomplete and potentially misleading picture of regional housing  
14 dynamics.”<sup>262</sup> Since MCE, like many other program administrators, has not previously  
15 implemented a program specific to manufactured homes, this EM&V study represents a critical  
16 opportunity to gather baseline data and assess cost-effectiveness of potential solutions that can be  
17 tailored to this historically underserved housing type. Study findings will inform future program  
18 design guidance, regional decarbonization policy coordination, and MCE’s broader equity and

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<sup>260</sup> AB 806 Sec. 1 (a) (Connolly, 2025) (“Any covenant, restriction, or condition contained in any rental agreement or other instrument affecting the tenancy of a homeowner or resident in a mobilehome park that effectively prohibits or restricts the installation, upgrade, replacement, or use of a cooling system in a mobilehome is void and unenforceable.”).

<sup>261</sup> Natural Resources Defense Council, 4 Steps to Include California’s Manufactured Homes in the Transition to Clean Energy, June 2025, available at: <https://www.nrdc.org/bio/ericka-flores/4-steps-include-californias-manufactured-homes-transition-clean-energy> (citing improving data collection as a key recommendation for better serving manufactured homes).

<sup>262</sup> *Id.*

1 decarbonization strategies. This data will also support advancing equitable building  
2 decarbonization statewide in alignment with state policies.<sup>263</sup>

### 3 **1.3 Strategic Energy Management Graduate Follow-Up Study**

4 MCE proposes an EM&V study to assess the long-term outcomes and continued energy  
5 performance of participants that completed its SEM programs. The study goal is to evaluate how  
6 “graduates” of MCE’s SEM cohorts sustain or expand upon the energy management practices and  
7 savings achieved during their formal program participation.

8 MCE launched its first SEM program cohort in 2022. The first MCE cohort will complete  
9 a six-year progression by 2028, aligning with the start of the 2028–2031 EM&V cycle. This timing  
10 creates a unique opportunity to evaluate post-graduation outcomes and the persistence of energy  
11 and greenhouse gas (“GHG”) savings.

12 This study will focus on:

- 13 • Persistence of savings from behavioral, operational, and equipment improvements  
14 implemented during SEM participation;
- 15 • Institutionalization of energy management practices, including the establishment of  
16 continuous improvement processes, energy teams, and internal accountability systems;
- 17 • Follow-on investments or participation in complementary programs;
- 18 • Barriers and motivators influencing whether graduates sustain energy management  
19 activities; and
- 20 • Potential for advanced engagement, such as leadership cohorts, peer mentoring, or  
21 integration with IDSM and electrification programs.

22 Findings will inform improvements to SEM curriculum design, post-program engagement  
23 strategies, and portfolio persistence assumptions. One major goal of SEM programs is to spur long-  
24 lasting institutional changes for companies and organizations to reduce their energy usage in  
25 perpetuity. If participants do not institutionalize adoption changes learned through participation in  
26 SEM programs, then the energy savings will not persist over a long period of time. This study will

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<sup>263</sup> AB 806 (Connolly, 2025).

1 also provide valuable insights into how SEM graduates may serve as regional champions for  
2 continuous energy savings and GHG emissions reductions.

3 **2. Budget Allocation and Justification**

4 MCE’s proposed PY 2028-2031 EM&V budget is \$2,610,031. MCE submits this request  
5 in compliance with Decision 16-08-019, which requires program administrators to adopt a 4  
6 percent EM&V budget cap<sup>264</sup> (as a share of total portfolio expenditures) and allows administrators  
7 to retain up to 40 percent of EM&V funding for direct studies.<sup>265</sup> MCE discusses its budgets further  
8 in **Chapter 4: Forecast Methodology and Zero-Based Budgeting.**

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<sup>264</sup> D.16-08-019, Ordering Paragraph (“OP”) 15.

<sup>265</sup> *Id.* at OP 16.

1 **Chapter 11: Recommendations for New or Modified EE Policies**

2 Marin Clean Energy (“MCE”) appreciates the Commission soliciting feedback from  
3 program administrators (“PAs”) regarding energy efficiency (“EE”) policies the Commission  
4 should adopt, modify, change, or sunset. PAs deploy and safeguard ratepayers’ funds, and are  
5 working with partners, stakeholders, and customers on the frontlines of this work. MCE believes  
6 its EE work has been improved immeasurably through the learnings, perspective, and access to  
7 community voices it enjoys as a PA. In response to the Commission’s call for ideas on ways to  
8 improve EE, MCE draws on these experiences and resources to offer the following suggestions:

- 9 1. The Commission Should Exclude Participant Costs from Cost-Effectiveness Tests
- 10 2. The Commission Should Allow Community Choice Aggregator (“CCA”) Program  
11 Administrators to Adjust Equity Segment Budget Caps in Support of Greater Energy  
12 Affordability and Energy Equity
- 13 3. The Commission Must Clarify its Application of the Equity and Market Support (“E&MS”)  
14 Segment Budget Cap
- 15 4. The Commission Should Streamline and Update the Definition of an Energy Efficiency  
16 Program
- 17 5. The Commission Should Reform the Evaluation, Metrics and Verification Requirements to  
18 Strengthen Transparency, Clarity, and Administrative Efficiencies
- 19 6. MCE Supports Greater Incorporation of Non-Energy Benefits in Portfolios as More  
20 Metrics Become Available
- 21 7. MCE Strongly Supports Integrated Demand Side Management Programs within the Energy  
22 Efficiency Portfolios

23 **1. The Commission Should Exclude Participant Costs from Cost-Effectiveness**  
24 **Tests**

25 The Public Utilities Code requires the Commission to fund “cost-effective energy  
26 efficiency [(“EE”)] and conservation activities,” while not limiting the Commission’s ability to  
27 also fund worthwhile EE activities that do not meet strict cost-effectiveness test requirements.<sup>266</sup>  
28 The Commission uses a variety of cost-effectiveness tests and other relevant metrics to evaluate

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<sup>266</sup> California Public Utilities Code § 381(b)(1); Decision (“D.”) 21-05-031, p. 67 (section 381(b)(1) does not require the Commission to exclusively fund cost-effective EE activities).

1 the performance of EE portfolios.<sup>267</sup> PAs must report on the Total Resource Cost (“TRC”) test and  
2 Program Administrator Cost (“PAC”) test for all segments of the portfolios separately and in the  
3 aggregate.<sup>268</sup> PAs<sup>269</sup> must achieve or exceed a TRC of 1.0 for the Resource Acquisition segment  
4 of their portfolio.<sup>270</sup>

5 Importantly, the definition of cost-effectiveness is within the Commission’s discretion and  
6 naturally must evolve over time. As the Commission explains, “the definition of cost-effectiveness  
7 has always been left to interpretation and implementation by the Commission, and though past  
8 decisions are interesting, they do not prevent the Commission from evolving its definition of cost-  
9 effectiveness, from time to time, as strategies evolve or as market conditions warrant.”<sup>271</sup> Now is  
10 one of those times.

11 MCE recommends the Commission update its cost-effectiveness tests to exclude  
12 participant costs, to ensure ratepayer funds are put to their highest and best uses in response to  
13 California’s electric affordability crisis.<sup>272</sup> In 2024, Governor Newsom recognized the recent  
14 increases in electric bills outpacing inflation and directed several state agencies including the  
15 Commission to take vital steps to improve electric affordability.<sup>273</sup> Among those directives,  
16 Governor Newsom specifically requested the Commission evaluate the costs and benefits of  
17 electric ratepayer funded programs with an emphasis on their impacts to electric rates.<sup>274</sup> Similarly,

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<sup>267</sup> D.21-05-031, pp. 18-24.

<sup>268</sup> D.21-05-031, p. 22; D.23-06-055, p. 26.

<sup>269</sup> Excluding the Regional Energy Networks (“RENs”).

<sup>270</sup> D.21-05-031, pp. 42, 53, 75 (Conclusion of Law (“COL”) 8).

<sup>271</sup> *Id.*, p. 67.

<sup>272</sup> Sierra Club, *California’s Affordability Crisis: Utilities Asking for More Money for Shareholders* (November 2025), available at: <https://www.sierraclub.org/articles/2025/11/california-s-affordability-crisis-utilities-asking-more-money-shareholders>.

<sup>273</sup> Executive Department State of California, EXECUTIVE ORDER N-5-24, pp. 1-2 (October 30, 2024), available at: <https://www.gov.ca.gov/wp-content/uploads/2024/10/energy-EO-10-30-24.pdf>.

<sup>274</sup> *Id.*, p. 2.

1 in 2024, the state legislature passed Assembly Bill 3264 in response to rising energy costs and  
2 directed the Commission to analyze a variety of relevant metrics to “identify evidence-based  
3 approaches to mitigating, reducing, and managing” residential electric rates.<sup>275</sup> In line with these  
4 directives, the Commission should adopt policies that ensure PAs maximize the benefit from all  
5 EE-dedicated ratepayer funds, and spread the benefits from these funds as far as possible while  
6 still achieving core program goals.

7         Removing participant costs from the calculation of the EE program cost-effectiveness tests  
8 would be an important step toward this end. The presence of participant costs in EE cost-  
9 effectiveness tests unnecessarily dilutes the accuracy and required oversight of ratepayer funds  
10 used in portfolios. Participant costs, by definition, are not ratepayer funds and are instead the  
11 personal, out-of-pocket expenses paid by a participating customer.<sup>276</sup> Participant costs can be a  
12 helpful metric to understand the full costs and performance of an EE measure or program.  
13 However, for metrics that are meant to assess the impact, performance, and effectiveness of  
14 ratepayer dollars, participant costs are inappropriate, distorting, and unnecessarily constricting. In  
15 light of the ongoing energy affordability crisis and recent corresponding policy directives, the  
16 Commission should take its next step in evolving its cost-effectiveness analysis and exclude  
17 participant costs from EE portfolio cost-effectiveness tests.

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<sup>275</sup> Assembly Bill 3264 (Petrie-Norris), sections 1(b), 3(b).

<sup>276</sup> CPUC, *Energy Efficiency Policy Manual Version 6*, pp. 25-26 (April 2020), available at: <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/energy-division/documents/energy-efficiency/eepolicymanualrevised-march-20-2020-b.pdf>.

1           **2.     The Commission Should Allow Community Choice Aggregator Program**  
2           **Administrators to Adjust Equity Segment Budget Caps in Support of Greater**  
3           **Energy Affordability and Energy Equity**

4           The Commission requires PAs<sup>277</sup> to limit their Market Support and Equity segment  
5 programs to 30 percent of their total portfolio budgets.<sup>278</sup> In creating the Market Support and  
6 Equity segments, the Commission prudently removed the cost-effectiveness requirement of total  
7 portfolio TRC value of 1.0 on these segments because it had different and complementary policy  
8 objectives.<sup>279</sup> The Commission recognized that these cost-effectiveness requirements were  
9 preventing the needed investments in E&MS focused activities and programs.<sup>280</sup> When instating  
10 the 30 percent budget cap on the segments collectively, the Commission explained that the  
11 previous cost-effectiveness requirements prior to segmentation placed a “natural limitation on the  
12 amount of budget that could be spent on market support or equity type objectives, since the overall  
13 portfolio still had to have benefits that exceeded costs.”<sup>281</sup>

14           The Commission based its adoption of a 30 percent budget cap for Market Support and  
15 Equity segments on its historic funding determinations for previous EE portfolios.<sup>282</sup> The  
16 Commission analyzed the then-current program expenditures of 20 percent non-resource program  
17 spending at that time and stated that increasing the non-resource budget to 30 percent was  
18 reasonable.<sup>283</sup> MCE appreciates the logic supporting the Commission’s 2021 decision to impose  
19 an *initial* 30 percent budget cap for Market Support and Equity segment programs. The

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<sup>277</sup> Excluding RENs.

<sup>278</sup> D.21-05-031, p. 23; D.23-06-055, p. 13.

<sup>279</sup> D.21-05-031, p. 14.

<sup>280</sup> *Id.*, pp. 13-14.

<sup>281</sup> *Id.*, p. 22.

<sup>282</sup> *Id.*, p. 23 (“Based on a review of the budgets approved by the Commission on similar program types in the past, beginning with this decision we will limit the funds that may be spent on market support and equity programs to 30 percent of the overall budget of each program administrator, with the exception of the RENs.”).

<sup>283</sup> *Id.*

1 segmentation scheme was brand new at that time and absent any other competing proposals, basing  
2 the budgets on historic spending made sense.

3         However, California is presently experiencing an energy affordability crisis which  
4 disproportionately and severely impacts low-income and disadvantaged community (“DAC”)  
5 customers especially.<sup>284</sup> The Commission recently found that 2021 was a turning point for bundled  
6 average electric system rates exceeding inflation, and forecasts this troubling trend to continue  
7 through at least 2028.<sup>285</sup> The Little Hoover Institute’s recent analysis of high electric rates places  
8 these trends into context: “This affordability crisis has had several consequences. One in five  
9 households are behind on their energy bills.”<sup>286</sup> The Public Policy Institute of California similarly  
10 found that “California household electricity costs have been climbing in the last decade and are  
11 the second highest in the country; today, more than half of Californians say that the rising cost of  
12 natural gas and electric utility bills is a major problem for them.”<sup>287</sup> The EE portfolios are an  
13 important tool the Commission should utilize to better support energy affordability for those most  
14 unable to bear this increasing burden. The Commission should relax current limits on this tool by  
15 allowing PAs to adjust their Equity segment budget caps. Therefore, MCE proposes the

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<sup>284</sup> Assembly Bill 3264 (Petrie-Norris), 2024, sections 1(a)(2); 4.

<sup>285</sup> CPUC, *2025 SB 695 Report: Report to the Legislature on Actions to Limit Utility Cost and Rate Increases Pursuant to Public Utilities Code Section 913.1*, p. 2 (September 2025), available at: [https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/office-of-governmental-affairs-division/reports/2025/2025-sb-695-report\\_093025.pdf](https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/office-of-governmental-affairs-division/reports/2025/2025-sb-695-report_093025.pdf).

<sup>286</sup> Little Hoover Institute, *The High Cost of Electricity in California*, p. 1 (October 2025), available at: <https://lhc.ca.gov/wp-content/uploads/LHC-Report-290-The-High-Cost-of-Electricity-in-California-Final-Draft-Prior-to-Publication-10.31.25.pdf>.

<sup>287</sup> Public Policy Institute of California, *Low-Income Households Struggle with the Cost of Electricity Bills* (August 2025), available at: <https://www.ppic.org/blog/low-income-households-struggle-with-the-cost-of-electricity-bills/>.

1 Commission allow PAs to propose an adjusted Equity segment budget cap proportional to their  
2 percentage of Equity customers.<sup>288</sup>

3 This proportional funding approach for Equity customers is common in other California  
4 climate and energy investment programs.<sup>289</sup> For example, Senate Bill 535 (De León 2012),  
5 Assembly Bill 1550 (Gomez 2016), and Assembly Bill 523 (Reyes 2018) all require 25 percent  
6 allocation of climate and energy funds to the 25 percent of the state’s population living in DACs.<sup>290</sup>

7 MCE’s customer base is approximately 41 percent Equity customers. MCE therefore  
8 believes it is reasonable to spend up to 41 percent of its portfolio budget on Equity segment  
9 programs. In this Application, MCE requests authorization to spend 35 percent of its portfolio  
10 budget on Market Support and Equity segment programs (30 percent Equity and five percent  
11 Market Support). The Commission should not artificially restrict MCE’s ability, or the ability of  
12 any CCA PA, to serve the unique needs and characteristics of their service area by limiting their  
13 E&MS segment budget to 30 percent. While MCE may serve its Equity customers with programs  
14 in other segments of its portfolio and strives to do so, the Commission itself recognized that the  
15 rules of the Resource Acquisition segment, particularly the cost-effectiveness requirements, limit  
16 a PA’s ability to serve Equity customers.<sup>291</sup>

17 For all these reasons, MCE requests the Commission approve a Market Support and Equity  
18 segment budget request more proportional to the Equity customers in its territory. For this  
19 Application, MCE requests authorization to allocate 35 percent of its portfolio budget to Market

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<sup>288</sup> MCE refers to all categories of customers eligible for its proposed Equity segment programs using the umbrella term “Equity Customers.” MCE defines “Equity customers” as residential customers and businesses in ESJ communities.” See **Chapter 3: Portfolio Strategies**, Section 7.

<sup>289</sup> See, e.g., Greenhouse Gas Reduction Fund and Electric Program Investment Charge.

<sup>290</sup> Senate Bill 535 (De León 2012) Section 3(a), Assembly Bill 1550 (Gomez 2016) Section 1(a), and Assembly Bill 523 (Reyes 2018) Section 1(b).

<sup>291</sup> D.21-05-031, pp. 13-14.

1 Support and Equity segment programs, with 30 percent going to Equity programs and five percent  
2 to Market Support programs.<sup>292</sup> Notably, with this adjusted budget cap, MCE would be able to  
3 serve up to 38 additional Green Workforce Pathway Program (“GWPP”) participants, 86 additional  
4 units in MFES-E, 159 additional homes in HES-E, and 30 additional businesses in SBEA (as  
5 compared to a 30 percent Market Support and Equity segment budget allocation).

6 **3. The Commission Must Clarify its Application of the E&MS Segment Budget**  
7 **Cap**

8 The Commission must clarify its application of the Equity segment budget cap. MCE  
9 requests the Commission apply the required 30 percent cap on Market Support and Equity segment  
10 programs at the time of the applicable EE Application decision—approving 30 percent of an apply-  
11 to-administer PAs’ total authorized four-year programs budget on E&MS segment programs. For  
12 example, if the Commission authorized a PA to administer \$100 over the four-year application  
13 period on programs in the Application decision, then the Commission also simultaneously  
14 authorized the same PA to administer \$30 for Market Support and Equity segment programs. MCE  
15 submits this request because the Commission required PAs to use an alternative formula in their  
16 2025 submitted Mid-Cycle Advice Letter (“MCAL”) that resulted in MCE’s Equity programs  
17 experiencing an unexpected \$2,346,187.77 budget cut, significantly reducing the scope of its  
18 programs.<sup>293</sup>

19 PAs design, execute, and reevaluate their EE program offerings based on the four-year  
20 budgets the Commission approves and any limitations the Commission places on the use of those  
21 budgets. For example, for the 2024-2027 portfolio period, the Commission limited expenditures

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<sup>292</sup> MCE submits two budgets for the Commission’s consideration in this Application: 1) Proposed four-year budget with 35 percent allocated to E&MS segments; 2) Proposed four-year budget with 30 percent allocated to E&MS segments. In both proposed budgets, the Resource Acquisition and remainder of its budget remain identical.

<sup>293</sup> MCE AL 91-E with an effective date of January 20, 2026.

1 on E&MS across EE programs with a 30 percent total portfolio budget cap. This principle is  
2 foundational to the rolling portfolio structure, format, and purpose. The rolling portfolio, by design,  
3 allows PAs to adjust, balance, and refine over the defined period of time. Like a financial portfolio  
4 mitigating risk by balancing investments across a diverse suite of options over a period of time,  
5 this design supports cost-effective, responsive, efficient, and dynamic program administration that  
6 can leverage existing administrative structures, apply meaningful economies of scale, lowering  
7 costs of programs, and implement innovative program designs safely.

8 As the Commission recognized, the four-year portfolio and eight-year business plan  
9 provide the ideal balance of short-term and long-term planning. In D.21-05-031 updating the EE  
10 portfolio process, the Commission explained its rationale:

11 [A]ssessing cost-effectiveness and goal-setting on an annual basis is one of the key  
12 processes the Commission was trying to avoid by adopting a rolling portfolio  
13 process. Having contentious annual ABALs [Annual Budget Advice Letters] that  
14 set program budgets effectively creates year-to-year uncertainty for program  
15 administrators and implementers, caused by the regulatory process, which  
16 undermines confidence and impedes market uptake of energy efficiency  
17 measures.<sup>294</sup>

18  
19 PAs operate a vast array of different kinds of programs, and not all programs that PAs  
20 operate draw down their budgets at the same rate. MCE, for example, conducted significant  
21 community engagement in designing and launching its Small Business Energy Advantage  
22 (“SBEA”) program during its 2024-2027 portfolio period. The program spending and launch  
23 timeline were very different for MCE’s existing programs like its Strategic Energy Management  
24 program. E&MS spending levels in the first years of a portfolio period often reflect normal  
25 program ramp-up or external market conditions rather than discretionary reallocation. Resource  
26 Acquisition, Market Support, and Equity programs have fundamentally different ramp-up periods,

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<sup>294</sup> D.21-05-031, p. 28.

1 procurement timelines, and delivery mechanisms. Equity programs in particular may require  
2 longer outreach, contractor mobilization, or community partnership development before  
3 expenditures materialize. Requiring proportional spending across segments at all times ignores  
4 these structural differences and penalizes programs that are intentionally designed to scale over  
5 time. In MCE’s case, E&MS program expenditures in 2024 reflected normal program ramp-up and  
6 implementation timing.

7 MCE supports tracking PA spending throughout the portfolio period with existing channels  
8 like Advice Letters (True-UP, MCAL, program launch/closure), annual reports, California Energy  
9 Data and Reporting System (“CEDARS”), and recurring check-ins with Energy Division (“ED”)  
10 staff. MCE believes these channels help ensure good stewardship of ratepayer funds and that PAs  
11 remain on track to comply with Commission-adopted budget caps by the end of the four-year  
12 portfolio period. However, the Commission should not reduce authorized budgets if PAs do not  
13 precisely hit budget caps (that were meant for the full portfolio period) at numerous midpoints. If  
14 that were the case, once early-year actuals are realized, they would permanently affect the spending  
15 ratio and could not be corrected through subsequent implementation. This would operate as a  
16 rolling proportional constraint tied to realized spending, and would cease to serve as a cap  
17 evaluated against the Commission-authorized budget over the full four-year period. This undoes  
18 the function, the spirit, and the value of a rolling portfolio structure.

19 This hybrid framework—combining cumulative actual expenditures with forward-looking  
20 forecasts—leads to unreasonable administrative burdens and policy distortions. In practice it  
21 effectively requires PAs to maintain proportional spending across portfolio segments throughout  
22 the portfolio period at all times. For the E&MS budget cap, this means ensuring that—for every  
23 dollar spent outside these segments—a corresponding share of spending is reflected within those

1 segments, regardless of implementation timing, contract structures, or market conditions. Recent  
2 experience highlights the need for policy clarification regarding how these kinds of budget caps  
3 are applied mid-cycle, particularly when prior-year actuals and voluntary budget adjustments are  
4 used in ways that redefine the cap itself. The Commission adopted a four-year portfolio budget  
5 period for a reason.

6 The Commission applied this framework to MCE’s 2025 submitted MCAL.<sup>295</sup> For MCE’s  
7 MCAL, ED staff evaluated cumulative 2024 actual expenditures together with forecasted spending  
8 for 2025–2027 to assess compliance with the Commission-adopted combined Equity and Market  
9 Support budget cap. Based on this novel assessment, ED concluded that projected E&MS spending  
10 *could* reach approximately 32 percent of total portfolio expenditures by the end of the four-year  
11 portfolio period.

12 As a result, ED required MCE to reduce its E&MS segment *budgets* (not expenditures) as  
13 part of the MCAL review. This reduced MCE’s E&MS segment budgets by \$2,346,187.77. At the  
14 time of the MCAL filing, MCE’s E&MS budgets remained within the dollar caps originally  
15 approved by the Commission in both D.23-06-055 and its True-Up Advice Letter (“TUAL”).<sup>296</sup>

16 Unlike the EE application and TUAL, which established total authorized portfolio budgets  
17 for the 2024–2027 period, the MCAL reflects the remaining authorized portfolio amount after  
18 accounting for 2024 actual expenditures. As such, the MCAL portfolio amount incorporates and  
19 accounts for realized spending and does not represent a standalone budget authorization for the  
20 full four-year period.

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<sup>295</sup> MCE AL 91-E submitted November 4, 2025.

<sup>296</sup> MCE AL 70-E with an effective date of November 15, 2023.

1                   **3.1     Commission’s Approval of E&MS Budget Cap**

2                   MCE interprets the Commission’s recent EE decisions as establishing and approving the  
3 combined E&MS budget cap as a percentage of the PA’s total portfolio budget for the full portfolio  
4 period. Under the Commission’s EE framework, a PA’s portfolio budget is created through  
5 approval in the EE application and may be modified only through explicit Commission action,  
6 such as a TUAL. Actual expenditures reduce remaining available budget authority but do not  
7 redefine the underlying portfolio budget itself.

8                   As D.21-05-031 states:

9                   Beginning in program year 2022, energy efficiency program administrators who  
10 are investor-owned utilities or community choice aggregators shall limit the  
11 expenditures in their portfolios on market support and equity programs, combined,  
12 **to a total of no more than 30 percent of their total budget**, including statewide  
13 programs, but excluding funds forwarded to other energy efficiency program  
14 administrators.<sup>297</sup>

15  
16 Decision 23-06-055 further explains that “D.21-05-031 directed the energy efficiency PAs to  
17 segment their portfolios into programs that are primarily designed for three purposes: resource  
18 acquisition, market support, and equity[,]” and “[t]he **combined budgets of each non-REN PA**  
19 **for the equity and market support programs are limited to 30 percent of their total portfolio**  
20 **budget.**”<sup>298</sup>

21                   Read in context, the terms “total budget” or “total portfolio budget” refer to the portfolio  
22 budget established through Commission approval, not to a dynamically recalculated amount  
23 derived from realized expenditures or forecast updates. Nothing in these decisions indicates that  
24 the portfolio budget denominator (for purposes of applying the combined E&MS cap) is  
25 recalculated mid-cycle based on implementation pacing, underspending in other segments, or

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<sup>297</sup> D.21-05-031, OP 4 (emphasis added).

<sup>298</sup> D.23-06-044, p. 13 (emphasis added).

1 updated forecasts. Under the framework the Commission established, PAs report actual  
2 expenditures for monitoring and oversight purposes, but do not redefine the authorized budget base  
3 against which the combined E&MS cap is calculated.

### 4 **3.2 Impact of Hybrid Framework on Programs**

5 MCE’s experience demonstrates how applying the combined E&MS cap using a hybrid  
6 actuals-plus-forecast framework effectively redefines the Commission-authorized cap mid-cycle,  
7 despite no Commission action modifying the underlying authorized portfolio budget or cap  
8 structure. This highlights the need for policy clarification regarding how budget caps are applied  
9 mid-cycle, particularly when prior-year actuals and voluntary budget adjustments are used in ways  
10 that redefine the cap itself.

11 Table 11-1 below summarizes the evolution of MCE’s portfolio authorization and E&MS  
12 budget caps across approval stages and illustrates the distinction between Commission-approved  
13 budgets and remaining authorization net of actual expenditures.

1 **Table 11-1: Evolution of MCE's Portfolio Authorization and E&MS Budget Caps<sup>299</sup>**

Approval Stage	Portfolio Authorization Basis	Amount
<b>EE Application (Original Authorization)<sup>300</sup></b>	Total authorized 2024-2027 portfolio budget	\$78,217,316.00
	Authorized E&MS Budget Cap (limited to 30 percent)	\$23,465,194.80
<b>TUAL (2023)<sup>301</sup></b>	Updated authorized 2024-2027 portfolio budget	\$76,679,990.46
	Authorized E&MS Budget Cap	\$23,001,297.15
<b>MCAL (2025)<sup>302</sup></b>	Remaining Authorized Portfolio Amount After 2024 actual Expenditures	\$70,393,693.44
	Authorized E&MS Budget Cap	\$21,119,008.03
<b>E&amp;MS Budget Cut (subtracting MCAL amount from EE Application amount)</b>		<b>\$2,346,187.77</b>

2 As a result of this unanticipated reduction in budget, MCE E&MS Programs in PY 2026-  
3 2027 suffered serious negative impacts. For example, the GWPP suffered administrative impacts  
4 (renegotiation of contract, potential impact of implementer staff time/hours), financial impacts  
5 (reducing the 2026 budget from \$1.2 million to \$500,000), and program deliverables impacts  
6 (significantly paring down job seeker matching). This has occurred at critical times, limiting  
7 contractor engagement and outreach during the Bay Area Air District's 9-6 ruling on zero NOx  
8 appliances and stopping program implementers from accessing cash stipends for small contractors  
9 when they were looking to build on growth and results of 2025. The SBEA program also suffered  
10 significant administrative impacts (requiring contract renegotiation, causing potential job loss,  
11 reduction in services, and potential temporary pause in program services) as well as financial

<sup>299</sup> The EE Application and TUAL reflect Commission-approved portfolio budgets for the full 2024-2027 period. The MCAL did not establish a new portfolio budget; instead, it reflects the remaining authorized portfolio amount after accounting for 2024 actual expenditures.

<sup>300</sup> D.23-06-055, p. 93.

<sup>301</sup> MCE Advice Letter 70-EE.

<sup>302</sup> MCE Advice Letter 91-EE.

1 impacts (reducing the program years 2026-2027 budget by \$1 million, or 50 percent). MCE was  
2 required to renegotiate contracts and reduce planned E&MS activities in later years—despite  
3 remaining within the Commission-authorized dollar cap for the full four-year portfolio period. This  
4 outcome discourages long-term Equity program planning that uses community engagement to  
5 meaningfully inform program design and implementation.

### 6 **3.3 MCE Proposal—Fixed Cap with Ongoing Annual Tracking and** 7 **Triggered Oversight**

8 MCE recognizes ED’s responsibility to ensure that PAs remain on track to comply with the  
9 combined E&MS budget cap over the full four-year portfolio period. MCE also recognizes that  
10 the MCAL represents the final formal opportunity for forward-looking forecasts within the current  
11 portfolio cycle. Accordingly, MCE proposes a framework that preserves the Commission-  
12 authorized cap structure while providing ED with both mid-cycle assurance and ongoing post-  
13 MCAL oversight, without recalculating the cap denominator or imposing continuous proportional  
14 spending requirements.

#### 15 *a. MCAL as the Final Forward-Looking Checkpoint*

16 At the MCAL, PAs would continue to provide:

- 17 • Actual E&MS expenditures to date;
- 18 • Forecasted E&MS expenditures for remaining portfolio years; and
- 19 • Remaining headroom under the Commission-authorized E&MS budget.

20 ED would assess whether the portfolio trajectory reasonably demonstrates compliance with  
21 the authorized cap by the end of the four-year portfolio period, consistent with the MCAL’s role  
22 as a mid-cycle oversight and course-correction mechanism. The MCAL would not, however,  
23 establish a new cap or denominator. The E&MS cap denominator would remain fixed as a  
24 percentage of the Commission-authorized total approved portfolio budget, regardless of voluntary

1 mid-cycle budget reductions, justifiable underspending in other portfolio segments, or year-to-year  
 2 variability in program pacing or implementation timing.

3 *b. Annual E&MS Cap Tracking Using a Standardized Table*

4 To provide ongoing transparency after MCAL approval, MCE recommends that PAs  
 5 include a standardized E&MS Cap Tracking Table in each annual report for the remainder of the  
 6 portfolio period. Under this approach, compliance would be evaluated based on cumulative E&MS  
 7 expenditures relative to the authorized cap. Pipeline and commitment information would be  
 8 provided solely to inform prospective risk assessment and would not, on its own, constitute a cap  
 9 exceedance or trigger retroactive budget reductions.

10 **Table 11-2: Recommended Table Structure for the Annual Report**

<b>Table Header</b>	<b>Description</b>	<b>Purpose / Rationale</b>
<b>Authorized Portfolio Budget</b>	Commission-approved total EE portfolio budget	Anchors cap tracking to Commission-authorized amounts rather than evolving actuals.
<b>Authorized E&amp;MS Cap (\$)</b>	Dollar value of the Commission-authorized combined cap	Establishes a fixed, transparent compliance threshold.
<b>Cumulative E&amp;MS Expenditures to Date</b>	Actual incurred costs through the reporting year	Serves as the definitive basis for compliance evaluation.
<b>Remaining Headroom Under the Authorized Cap</b>	Difference between authorized cap and cumulative expenditures	Translates compliance status into a clear, actionable dollar metric.
<b>Executed Contract Commitments</b>	Value of executed contracts supporting E&MS activities	Identifies legally binding obligations and provides a strong forward-looking indicator.
<b>Committed Pipeline (Reasonably Expected Spend)</b>	Near-term activities beyond exploratory stages but not yet executed	Supports early identification of potential cap risk.
<b>Material Cap Risk Indicator</b>	Qualitative indicator (e.g., Low / Moderate / High risk)	Flags when trends suggest a reasonable risk of cap exceedance and when further action may be warranted.

11

1 *c. Triggered Filing Only if Risk Emerges*

2 If an annual report indicates that continued implementation would present a significant risk  
3 of the PA exceeding the authorized E&MS cap based on cumulative expenditures, executed  
4 commitments, and reasonably expected pipeline activity, the PA would then be required to take  
5 corrective action prior to exceeding the cap. Such action would include filing a Tier 2 Advice Letter  
6 proposing portfolio adjustments or requesting Commission guidance, as appropriate. This  
7 approach ensures ED review before a cap exceedance occurs while avoiding automatic or  
8 retroactive budget reductions driven solely by implementation timing differences or cross-segment  
9 underspending.

10 **3.4 Distinguishing Trajectory Evaluation for Total System Benefit Goals**  
11 **Versus Budget and Equity Caps**

12 MCE recognizes that ED appropriately evaluates portfolio trajectory using actual  
13 performance and forecasts when assessing progress toward TSB goals, including in the MCAL.  
14 TSB goals are performance-based targets designed to evolve over time in response to updated  
15 potential studies. As such, it is reasonable and necessary to assess whether PAs remain on track  
16 using a hybrid actuals-plus-forecast framework. Budget caps, by contrast, are authorization-based  
17 constraints. The Commission establishes these caps as fixed dollar limits tied to the authorized  
18 portfolio budget approved at application and the EE Potential and Goals Study. Unlike TSB goals,  
19 budget caps are not recalculated or re-baselined based on realized performance or implementation  
20 timing.

21 Applying a hybrid trajectory framework designed for performance goals to authorization-  
22 based budget caps conflates two fundamentally different regulatory constructs and effectively  
23 transforms a fixed cap into a rolling proportional spending requirement—an outcome neither  
24 articulated in Commission decisions nor aligned with the purpose of budget authorization. Treating

1 these constructs differently preserves the integrity of both oversight functions: performance  
2 trajectory assessment for TSB goals and authorization compliance for budget caps.

### 3 **3.5 Requested Commission Action**

4 MCE respectfully requests that the Commission:

- 5 1. Clarify that the combined E&MS budget cap is calculated as a percentage of the  
6 Commission-authorized total portfolio budget approved in the EE application,  
7 and that this denominator remains fixed for the four-year portfolio period absent  
8 explicit Commission action.
- 9 2. Confirm that cumulative actual expenditures are used to measure progress  
10 toward the authorized cap but do not redefine or re-baseline the authorized  
11 budget base.
- 12 3. Affirm that the MCAL serves as the final forward-looking checkpoint for  
13 assessing cap compliance trajectory (unless the below trigger applies) and does  
14 not establish a new cap or denominator.
- 15 4. Direct PAs to include a standardized E&MS Cap Tracking Table in annual  
16 reports following MCAL approval to support transparent, prospective oversight.
- 17 5. Establish a trigger-based enforcement mechanism requiring prospective  
18 corrective action, including a Tier 2 advice letter where appropriate, only if an  
19 annual report demonstrates a reasonable risk of exceeding the authorized cap.
- 20 6. Clarify that while hybrid actuals-plus-forecast evaluation is appropriate for TSB  
21 goals, budget caps are authorization-based constraints and should be evaluated  
22 based on cumulative expenditures relative to Commission-authorized limits.

#### 23 **4. The Commission Should Streamline and Update the Definition of an Energy** 24 **Efficiency Program**

25 MCE recommends the Commission update its definition of an EE program in its public  
26 reporting to improve portfolio transparency and customer access to program information. PAs  
27 regularly report on program and portfolio performance on the publicly available CEDARS.<sup>303</sup>  
28 CEDARS is a tremendous tool that provides significant information to the public on EE programs  
29 and their performance. However, MCE has received feedback from other stakeholders interested  
30 in EE programs that its interface and organization can be difficult for some to navigate.

---

<sup>303</sup> For example, quarterly reports and annual reports often include hundreds of metrics.

1           One difficulty consistently identified by stakeholders is the sheer number of EE programs  
2 and metrics. On CEDARS, reports are organized by individual PA and on a programmatic basis  
3 with specific program identifications (“IDs”). The present organization of programmatic  
4 information is very detailed, but its organization can be overwhelming and make it challenging to  
5 understand the larger trends of portfolio performance or program offerings. MCE recommends the  
6 Commission update its definition of an EE program on the CEDARS website, prioritize  
7 aggregating data, and present streamlined trends of portfolio performance.

8           In this Application, for example, MCE submits eleven programs with different  
9 implementation plans and delivery models.<sup>304</sup> In order to capture the required data specifications  
10 in a format that is clear for ED staff and evaluators, MCE created 23 individual program IDs in  
11 CEDARS.<sup>305</sup> This creates confusion for stakeholders trying to assess program performance and  
12 the customers interested in individual programs. This can also contribute to public evaluations of  
13 EE portfolios which overrepresent the numbers of actual EE programs. The energy affordability  
14 crisis has sparked additional scrutiny on the use of electric ratepayer funds in programs,<sup>306</sup> and the  
15 Commission must update this definition and improve the organization of programmatic reporting  
16 to ensure greater accuracy and transparency.

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<sup>304</sup> In this Application, MCE submits the following programs: Commercial Flex Market, Energy Management, Green Workforce Pathways, Home Energy Savings-Equity, Home Energy Savings-Resource, Integrated Demand Side Management, Low-Global Warming Potential (“GWP”) Refrigerant Accelerator, Multifamily Energy Savings-Equity, Multifamily Energy Savings-Resource, Residential Flex Market, Small Business Energy Advantage. *See Exhibit 2: Program Cards* for additional details.

<sup>305</sup> *See Exhibit 3: CEDARS Filing Links and Receipts.*

<sup>306</sup> Assembly Bill 3264 (Petrie-Norris), section 4 (requiring the CPUC to report a list of all demand-side management programs and evaluations of each program with specific metrics).

1 To reduce customer confusion, MCE recommends the Commission adopt an approach for  
2 CEDARS similar to the “Switch Is On” website.<sup>307</sup> The Switch Is On is a statewide educational  
3 campaign promoting home electrification. The Switch Is On is a collaboration between the  
4 Commission’s Technology and Equipment for Clean Heating (“TECH”) program and other  
5 partners. The campaign’s success is in large part due to its focus on communicating directly with  
6 customers—the Switch Is On “is a people-focused campaign focused on educating, inspiring, and  
7 supporting Californians.”<sup>308</sup> The website features a rebate locator and contractor directory  
8 organized by services, location, and other eligibility criteria. PAs could provide similar information  
9 to the Commission for this CEDARS update. MCE recognizes CEDARS serves additional  
10 important goals beyond customer education. So instead of removing existing CEDARS  
11 components, MCE recommends the Commission, in partnership with PAs, add an additional  
12 customer-focused resource that helps customers easily navigate EE program offerings. PAs are  
13 well positioned to support this process because many, including MCE, already offer program  
14 rebate and incentive navigation tools on their websites. The Commission could even centralize  
15 existing resources on CEDARS to limit any additional administrative burdens.

16 **5. The Commission Should Reform the Evaluation, Metrics and Verification**  
17 **Requirements to Strengthen Transparency, Clarity, and Administrative**  
18 **Efficiencies**

19 MCE recommends the Commission update the Evaluation, Metrics, and Verification  
20 (“EM&V”) requirements to improve transparency, clarity, and administrative efficiencies.

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<sup>307</sup> <https://www.switchison.org/>; See also Mass Save, Mass Save Data: The Massachusetts Energy Efficiency Database, available at: <https://www.masssavedata.com/> (offering streamlined and aggregated EE program reporting for Massachusetts).

<sup>308</sup> The Switch Is On, *The Switch Is On Presentation*, p. 13 (March 2022), available at: [https://www.bayren.org/sites/default/files/2022-03/BayREN%20March%202022%20Forum%20presentation\\_Rebecca%20Rothman\\_Switch%20Is%20On-Building%20Decarbonization%20Coalition.pdf](https://www.bayren.org/sites/default/files/2022-03/BayREN%20March%202022%20Forum%20presentation_Rebecca%20Rothman_Switch%20Is%20On-Building%20Decarbonization%20Coalition.pdf).

1 Providing clearer EM&V direction to PAs will support more consistent and timelier compliance in  
2 furtherance of related goals. The Commission designed EM&V to advance the following  
3 objectives: inform the program selection process, provide early feedback to program  
4 implementers, produce impact evaluations at the end of the funding period, and feed the planning  
5 process for future program cycles.<sup>309</sup> EM&V allows EE programs and program offerings to  
6 continuously improve in alignment with ever evolving Commission and state policy goals.  
7 Strengthening the consistency and timeliness of EM&V reporting will allow for more  
8 comprehensive, usable, and relevant data. This data will help PAs across the portfolio further  
9 improve EE programs and program offerings in real time.

10 Currently, the Commission issues EM&V requirements for PAs across several distinct  
11 sources including the *2020 Energy Policy Manual*, the *2006 California Energy Efficiency*  
12 *Evaluation Protocols*, and various decisions. These controlling authorities establish the  
13 foundational principle that Commission ED Staff oversee EM&V activities and PAs are  
14 responsible for supporting evaluations, reviewing findings, and preparing Responses to  
15 Recommendations (“RTRs”) when included. These sources offer a rich and detailed foundation  
16 for EM&V activities. However, PAs do not have a streamlined method or source from which to  
17 learn when EM&V studies are published, determine whether specific recommendations apply to  
18 their portfolios, or to identify due dates for RTR submissions.

19 Absent a single unified EM&V resource, PAs must monitor the following three  
20 repositories:

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<sup>309</sup> CPUC, *Energy Efficiency Policy Manual Version 6*, pp. 43-44 (April 2020), available at: <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/energy-division/documents/energy-efficiency/eepolicymanualrevised-march-20-2020-b.pdf>.

- 1           • **Public Documents Area:** The Public Documents Area (“PDA”) is the Commission’s  
2           general repository for EE-related public documents, including EM&V reports, work  
3           papers, and supporting materials. However, the PDA does not presently identify which  
4           reports contain PA-specific recommendations or indicate when RTR action is required.
- 5           • **Project Status Reporting Module:** The Project Status Reporting (“PSR”) module<sup>310</sup>  
6           provides EM&V project descriptions, budgets, milestones, and status updates. While  
7           useful for tracking study progress, the PSR Module does not identify which PAs must  
8           respond to recommendations and does not issue notifications to impacted PAs when a  
9           study advances or additional action is necessary. Additionally, the PSR Module does  
10          not allow CCAs like MCE to identify themselves as study leads. This unnecessarily  
11          limits public transparency of PA-conducted EM&V studies.
- 12          • **CalMAC:** CalMAC<sup>311</sup> is a separate public-facing library of EM&V and research  
13          studies. CalMAC was created by the investor-owned utilities, Commission, and the  
14          California Energy Commission (“CEC”) historically as an “unofficial forum for  
15          discussing and directing” EM&V efforts.<sup>312</sup> Currently, CalMAC functions primarily as  
16          a research archive and search tool, but does not provide study status information, PA-  
17          specific tagging, RTR requirements, or notification functionality. EM&V requirements  
18          are presently ambiguous on whether PAs should publish studies to both CalMAC and  
19          the PDA. Also unclear is what distinct role each platform is intended to play within the  
20          EM&V ecosystem.

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<sup>310</sup> <https://psr.energydataweb.com>.

<sup>311</sup> California Measurement Advisory Council (“CalMAC”), <https://www.calmac.org/>.

<sup>312</sup> CalMAC, FAQ, available at: <https://www.calmac.org/faq.asp>.

1 In the absence of a single, centralized system and PA-specific notifications and indicators,  
2 PAs must manually and repeatedly review multiple resources to determine the receipt of a new  
3 RTR obligation. This process is time intensive, administratively inefficient, risks PAs missing  
4 valuable information, and particularly impacts smaller PAs with comparatively limited staff  
5 resources.

6 To support greater consistency, transparency, administrative efficiency, and usability of  
7 EM&V reports, MCE recommends:

- 8 1. The Commission-issue notifications identifying which EM&V studies require RTRs and  
9 their corresponding due dates.
- 10 2. The Commission require PA-specific tags or metadata on the PDA, PSR module, and  
11 CalMAC publications indicating which PAs are evaluated in each study.
- 12 3. The Commission issue consolidated guidance and training materials explaining the purpose  
13 and application of CalMAC, the PDA, and the PSR module within EM&V requirements.

14 These narrow improvements would reduce duplicative manual effort for all PAs, reduce the  
15 necessary staff resources and costs of compliance, remove existing compliance ambiguities, and  
16 support timely and accurate RTR submissions. Collectively, these enhancements will further  
17 strengthen the quality and timeliness of EM&V reporting in support of improved EE programming.

18 **6. MCE Supports Greater Incorporation of Non-Energy Benefits in Portfolios**  
19 **as More Metrics Become Available**

20 MCE strongly supports the valuation and consideration of non-energy benefits (“NEBs”)  
21 within the EE portfolios. The lack of consideration of NEBs in climate and energy programs  
22 frequently prohibits meaningful investments in environmental and social justice (“ESJ”)  
23 communities especially.<sup>313</sup> NEBs like improved health, safety, comfort, resilience, and bill savings

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<sup>313</sup> California Energy Commission, *Low-Income Barriers Study, Part A: Overcoming Barriers to Energy Efficiency and Renewables for Low-Income Customers and Small Business Contracting Opportunities in Disadvantaged Communities*, pp. 3, 5, 43, 46 (2016), available at: <https://efiling.energy.ca.gov/getdocument.aspx?tn=214830>.

1 are also often the primary motivator for customers’ participation in EE programs.<sup>314</sup> The  
2 consideration and valuation of NEBs is consistent with the Commission’s *Environmental and*  
3 *Social Justice Action Plan* Goals 2, 4, and 7 to increase investment in ESJ communities that  
4 improve air quality, climate resiliency, and promote high road career paths and economic  
5 opportunities for residents.<sup>315</sup> Valuing and considering NEBs supports their delivery through EE  
6 programs in compliance with relevant EE and state policy objectives.

7 As so many Californians suffer from high energy bills, EE programs should maximize bill  
8 savings potential and the NEB of “bill savings.”<sup>316</sup> As discussed above, the Governor and  
9 legislature directed the Commission to ensure ratepayer programs do everything possible to help  
10 energy affordability.<sup>317</sup> Assembly Bill 3264 (Petrie-Norris, 2024) directly requires reporting on the  
11 bill savings impacts and “public interest impacts, as applicable” of all demand-side management  
12 programs, including EE programs. The Commission should take additional steps to incorporate  
13 NEBs like bill savings across the EE portfolio, especially within the Equity segment.

14 MCE supported the Disadvantaged Community Advisory Group’s (“DACAG”) proposal  
15 for greater integration of NEBs in EE portfolios in the previous application cycle,<sup>318</sup> as well as the  
16 Commission’s *Non-Energy Benefits Study* “to update and improve quantification of non-energy  
17 benefits as an indicator for Equity segment program performance, as well as for consideration by

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<sup>314</sup> *Id.*, p. 43.

<sup>315</sup> CPUC, *ESJ Action Plan Vol 2* (April 2022), available at: <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf>

(GOAL 2: Increase Investment in Clean Energy Resources to Benefit ESJ Communities, Especially to Improve Local Air Quality and Public Health; GOAL 4: Increase Climate Resiliency in ESJ Communities GOAL 7: Promote High Road Career Paths and Economic Opportunity for Residents of ESJ Communities).

<sup>316</sup> Public Policy Institute of California, *Low-Income Households Struggle with the Cost of Electricity Bills* (August 2025), available at: <https://www.ppic.org/blog/low-income-households-struggle-with-the-cost-of-electricity-bills/>.

<sup>317</sup> Executive Department State of California, EXECUTIVE ORDER N-5-24, pp. 1-2 (October 30, 2024), available at: <https://www.gov.ca.gov/wp-content/uploads/2024/10/energy-EO-10-30-24.pdf>; Assembly Bill 3264 (Petrie-Norris), 2024, section 4.

<sup>318</sup> D.23-06-055, p. 32.

1 PAs, stakeholders, and ED staff in the equity goals development process.”<sup>319</sup> MCE along with other  
2 PAs and stakeholders have meaningfully participated in the Non-Energy Benefits Study Working  
3 Group. This Working Group published a draft research plan identifying 11 NEBs for further  
4 study.<sup>320</sup> The final report will include NEBs measurement methods for the identified NEBs and PA  
5 reporting templates for Equity segment programs. According to recent timeline estimates, the final  
6 report should be published in Q3 of 2026.

7 Simultaneously, the CEC adopted an Order Instituting an Informational Proceeding on  
8 Non-Energy Impacts (“NEI”) in March 2024 to “[c]onsider use of non-energy benefits and social  
9 cost methodologies in CEC analyses, planning, and decision-making processes.”<sup>321</sup> The CEC has  
10 conducted two public workshops seeking “[f]eedback on the proposed set of non-energy  
11 impacts<sup>[322]</sup> planned for consideration for application in CEC planning and processes.”<sup>323</sup> MCE  
12 recommends the CPUC coordinate with the CEC on this complementary effort to ensure utilization  
13 of any relevant research, findings, proposals, and methods.

14 Following the publication of the *Non-Energy Benefits Study* in 2026 and any other  
15 potentially relevant NEI publications from the CEC, the Commission will require PAs to track and  
16 report NEBs for the Equity segment starting in the Q1 2028 quarterly reports.<sup>324</sup> Since these reports

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<sup>319</sup> *Id.*, p. 35.

<sup>320</sup> NEBs identified include: bill savings, more comfortable, better health at the participant level, increased job access at the participant level, economic development, better health at the societal level, increased jobs, reduced shut-offs, increased property value, increased productivity, enhanced community resilience and adaptation to climate change.

<sup>321</sup> CEC, *Order Instituting Informational Proceeding on Non-Energy Impacts (NEI)* (2025), available at: <https://www.energy.ca.gov/proceeding/order-instituting-informational-proceeding-non-energy-impacts-nei>.

<sup>322</sup> NEI categories under consideration include air quality, land use, affordability & economics, workforce & jobs, resilience, water supply and quality, public health and safety, cross-cutting.

<sup>323</sup> CEC, *Informational Proceeding on Non-Energy Benefits and Social Costs, Presentations for the Scoping Workshop for the Non-Energy Impacts Informational Proceeding*, p. 8 (March 2025), available at: <https://efiling.energy.ca.gov/GetDocument.aspx?tn=262166>.

<sup>324</sup> D.23-06-055, OP 19.

1 are not presently available, MCE recommends the Commission consider greater incorporation of  
2 NEBs with a focus on bill savings prior to 2028. Doing so would ultimately support energy  
3 affordability, Executive Order N-5-24 and AB 3264 compliance, and ESJ Action Plan Goals 2, 4,  
4 and 7.<sup>325</sup>

5 **7. MCE Strongly Supports Integrated Demand Side Management Programs**  
6 **within the Energy Efficiency Portfolios**

7 MCE strongly supports the Commission continuing to fund integrated demand-side  
8 management (“IDSM”) programs within the EE portfolios. In D.23-06-055, the Commission  
9 authorized “each PA to set aside up to 2.5 percent, or \$4 million, whichever is great[er], of its  
10 energy efficiency budget for the portfolio period, up to a maximum of \$15 million, for ongoing  
11 load shifting that reduces peak consumption and is not event-based” for programs from 2024-  
12 2027.<sup>326</sup> In March 2024, Pacific Gas & Electric Company (“PG&E”), Southern California Edison  
13 Company (“SCE”), Southern California Gas Company (“SoCalGas”), San Francisco Bay Area  
14 Regional Energy Network (“BayREN”), Inland Regional Energy Network (“I-REN”), MCE,  
15 Southern California Regional Energy Network (“SoCalREN”), and Tri-County Regional Energy  
16 Network (“3C-REN”) submitted multi-distributed energy resource IDSM frameworks and  
17 programs to the Commission. In September 2025, the Commission issued a final resolution

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<sup>325</sup> CPUC, *ESJ Action Plan Vol 2* (April 2022), available at: <https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/news-and-outreach/documents/news-office/key-issues/esj/esj-action-plan-v2jw.pdf> (GOAL 2: Increase Investment in Clean Energy Resources to Benefit ESJ Communities, Especially to Improve Local Air Quality and Public Health; GOAL 4: Increase Climate Resiliency in ESJ Communities GOAL 7: Promote High Road Career Paths and Economic Opportunity for Residents of ESJ Communities).

<sup>326</sup> D.23-06-055, COL 41.

1 approving PG&E, SCE, SoCalGas, BayREN, I-REN, MCE, SoCalREN, and 3C-REN’s IDSM  
2 frameworks and programs.<sup>327</sup> MCE expects to formally launch its IDSM program<sup>328</sup> in Q1 of 2026.

3 In D.23-06-055, the Commission did not explicitly authorize the funding of IDSM  
4 frameworks and programs beyond PY 2027.<sup>329</sup> MCE recommends the Commission continue IDSM  
5 funding for PYs 2028-2031 and beyond. The integration of IDSM measures and activities within  
6 EE portfolios supports several key policy goals including cost-effectiveness, grid reliability, bill  
7 savings, and customer satisfaction in program participation. Evaluations of IDSM programs  
8 consistently find the program designs allow the measure of flexibility necessary to produce more  
9 valuable energy savings at key times of electric grid stress that simultaneously benefit the  
10 participant customers and the non-participant customers using the electric grid.<sup>330</sup> As California’s  
11 reliability<sup>331</sup> and affordability<sup>332</sup> needs continue to evolve, the Commission should continue  
12 investing in the essential tools of IDSM programs integrated within EE portfolios. IDSM programs  
13 within EE portfolios further reduce the administrative costs and customer confusion resulting from  
14 administering multiple siloed EE, DSM, and demand response programs.<sup>333</sup> MCE recommends the  
15 Commission continue to authorize IDSM funding in EE portfolios for PYs 2028-2031.

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<sup>327</sup> Resolution E-5387.

<sup>328</sup> See descriptions of MCE’s Peak Flex Program in **Chapter 3: Portfolio Strategies, Chapter 6: Sector and Segmentation Strategy, and Exhibit 2, Peak Flex Market Program Card.**

<sup>329</sup> D.23-06-055, COL 41 (“for programs to be launched during 2024-2027”).

<sup>330</sup> American Council for an Energy-Efficient Economy, *ENABLING INDUSTRIAL DEMAND FLEXIBILITY: ALIGNING INDUSTRIAL CONSUMER AND GRID BENEFITS*, p. 5 (February 2024), available at: [https://www.aceee.org/sites/default/files/pdfs/enabling\\_industrial\\_demand\\_flexibility-aligning\\_industrial\\_consumer\\_and\\_grid\\_benefits.pdf](https://www.aceee.org/sites/default/files/pdfs/enabling_industrial_demand_flexibility-aligning_industrial_consumer_and_grid_benefits.pdf).

<sup>331</sup> CEC, *Staff Report: California Energy Resource and Reliability Outlook, 2025*, p. 108 (July 2025), available at: <https://www.energy.ca.gov/publications/2025/california-energy-resource-and-reliability-outlook-2025> (“Electricity Demand: California’s electricity demand continues to rise, peaking in summer. The 2024 IEPR Update forecasts a coincident peak of nearly 46,000 MW for the California ISO in summer 2025.”).

<sup>332</sup> Executive Order N-5-24.

<sup>333</sup> Lawrence Berkeley National Lab, *Barriers and Opportunities to Broader Adoption of Integrated Demand Side Management at Electric Utilities*, pp. 12, 34 (February 2018), available at: [https://eta-publications.lbl.gov/sites/default/files/barriers\\_and\\_opps\\_idsm\\_final\\_03222108.pdf](https://eta-publications.lbl.gov/sites/default/files/barriers_and_opps_idsm_final_03222108.pdf).