

MARIN CLEAN ENERGY

ADDENDUM NO. 6 TO THE REVISED COMMUNITY CHOICE AGGREGATION IMPLEMENTATION PLAN AND STATEMENT OF INTENT

TO ADDRESS MCE EXPANSION TO THE UNINCORPORATED AREAS OF SOLANO COUNTY



November 19, 2018

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CHAPTER 1 – INTRODUCTION

The purpose of this document is to make certain revisions to the Marin Clean Energy Implementation Plan and Statement of Intent in order to address the expansion of Marin Clean Energy (“MCE”) to the unincorporated areas of Solano County. MCE is a public agency that was formed in December 2008 for purposes of implementing a community choice aggregation (“CCA”) program and other energy-related programs targeting significant greenhouse gas emissions (“GHG”) reductions. At that time, the Member Agencies of MCE included eight of the twelve municipalities located within the geographic boundaries of Marin County: the cities/towns of Belvedere, Fairfax, Mill Valley, San Anselmo, San Rafael, Sausalito and Tiburon and the County of Marin (together the “Members” or “Member Agencies”). In anticipation of CCA program implementation and in compliance with state law, MCE submitted the Marin Energy Authority Community Choice Aggregation Implementation Plan and Statement of Intent (“Implementation Plan”) to the California Public Utilities Commission (“CPUC” or “Commission”) on December 9, 2009. Consistent with its expressed intent, MCE successfully launched the Marin Clean Energy CCA program (“MCE” or “Program”) on May 7, 2010 and has been serving customers since that time.

During the second half of 2011, four additional municipalities within Marin County, the cities of Novato and Larkspur and the towns of Ross and Corte Madera, joined MCE, and a revised Implementation Plan reflecting updates related to this expansion was filed with the CPUC on December 3, 2011.

Subsequently, the City of Richmond, located in Contra Costa County, joined MCE, and a revised Implementation Plan reflecting updates related to this expansion was filed with the CPUC on July 6, 2012.

A revision to MCE’s Implementation Plan was then filed with the Commission on November 6, 2012 to ensure compliance with Commission Decision 12-08-045, which was issued on August 31, 2012. In Decision 12-08-045, the Commission directed existing CCA programs to file revised Implementation Plans to conform to the privacy rules in Attachment B of the aforementioned Decision.

During 2015, the County of Napa and the Cities of Benicia, El Cerrito, and San Pablo joined MCE; service was extended to customers in unincorporated Napa County during February 2015 and to customers in Benicia, El Cerrito and San Pablo during May 2015. To address the anticipated effects of these expansions, MCE filed with the Commission a revision to its Implementation Plan on July 18, 2014 to address expansion to the County of Napa (the Commission subsequently certified this revision on September 15, 2014). Following the Commission’s certification of this revision, MCE submitted Addendum No. 1 to the Revised Community Choice Aggregation Implementation Plan and Statement of Intent to Address MCE Expansion to the City of San Pablo (“Addendum No. 1”) on September 25, 2014 (and the Commission subsequently certified Addendum No. 1 on October 29, 2014); and Addendum No. 2 to the Revised Community Choice Aggregation Implementation Plan and Statement of Intent to Address MCE Expansion to the City

of Benicia (“Addendum No. 2”) on November 21, 2014 (the Commission subsequently certified Addendum No. 2 on December 1, 2014); and Addendum No. 3 to the Revised Community Choice Aggregation Implementation Plan and Statement of Intent to Address MCE Expansion to the City of El Cerrito (“Addendum No. 3”) on January 7, 2015 (the Commission subsequently certified Addendum No. 3 on January 16, 2015).

On April 21, 2016, MCE’s Board of Directors (the “Board” or “Governing Board”) unanimously adopted Resolution No. 2016-01, which approved the cities of American Canyon, Calistoga, Lafayette, Napa, St. Helena and Walnut Creek as well as the Town of Yountville as members of MCE. On this date, MCE’s Board also approved the related Addendum No. 4 to its Revised Community Choice Aggregation Implementation Plan and Statement of Intent (“Addendum No. 4”), which addressed expansion to such Communities. Addendum No. 4 was submitted to the Commission on April 22, 2016; Addendum No. 4 was certified by the Commission thereafter on May 6, 2016.

On July 20, 2017, MCE’s Board adopted Resolution No. 2017-06, which approved Contra Costa County (unincorporated areas); the cities of Concord, Martinez, Oakley, Pinole, Pittsburg and San Ramon; and the towns of Danville and Moraga as members of MCE. On this date, MCE’s Board also approved the related Addendum No. 5 to its Revised Community Choice Aggregation Implementation Plan and Statement of Intent (“Addendum No. 5”), which addressed expansion to such Communities. Addendum No. 5 was submitted to the Commission on September 25, 2017; Addendum No. 5 was certified by the Commission thereafter on December 21, 2017.

More recently, MCE’s Board approved the membership request of Solano County (unincorporated areas) on October 18, 2018 via Resolution No. 2018-12, and staff prepared this Addendum No. 6 to MCE’s Revised Community Choice Aggregation Implementation Plan and Statement of Intent (“Addendum No. 6”), which addresses service delivery within the unincorporated areas of Solano County. MCE’s Board also approved Addendum No. 6 on October 18, 2018.

The MCE program now provides electric generation service to approximately 471,000 customers, including a cross section of residential and commercial accounts. During its more than eight-year operating history, non-member municipalities have monitored MCE’s progress, evaluating the potential opportunity for membership, which would enable customer choice with respect to electric generation service. In response to such inquiries, MCE’s Board adopted Policy 007, which established a formal process and specific criteria for new member additions. In particular, this policy identifies several threshold requirements, including the specification that any prospective member evaluation demonstrate rate-related savings (based on prevailing market prices for requisite energy products at the time of each analysis) as well as environmental benefits (as measured by anticipated reductions in greenhouse gas emissions and increased renewable energy sales to CCA customers) before proceeding with expansion activities, including the filing of related revisions/addenda to this Implementation Plan. As MCE receives new membership requests, staff will follow the prescribed evaluative process of Policy 007 and will present related

results at future public meetings. To the extent that membership evaluations demonstrate favorable results and any new community completes the process of joining MCE, this Implementation Plan will be revised through a related addendum, highlighting key impacts and consequences associated with the addition of such new community/communities.

In response to public interest and MCE's successful operational track record, Solano County requested MCE membership, consistent with MCE Policy 007, and adopted the requisite ordinance for joining MCE. As previously noted, MCE's Board approved such membership request at a duly noticed public meeting on October 18, 2018 through the adoption of Resolution No. 2018-12.

This Addendum No. 6 describes MCE's expansion plans to include the unincorporated areas of Solano County. MCE intends to enroll such customers in its CCA Program during the month of April 2020, consistent with the Commission's requirements per Resolution E-4907, which define relevant timing for Implementation Plan filing in advance of service commencement. According to the Commission, the Energy Division is required to receive and review a revised MCE implementation plan reflecting changes/consequences of additional members. With this in mind, MCE has reviewed its revised Implementation Plan, which was filed with the Commission on July 18, 2014, as well as previously filed and certified Addendums, and has identified certain information that requires updating to reflect the changes and consequences of adding Solano County (unincorporated areas) as well as other forecast modifications, which reflect the most recent historical electric energy use within MCE's existing service territory. This Addendum No. 6 reflects pertinent changes that are expected to result from the new member addition as well as updated projections that are considerate of recent operations. This document format, including references to MCE's most recent Implementation Plan revision (filed with the Commission on July 18, 2014 and certified by the Commission on September 15, 2014), which is incorporated by reference and attached hereto as Appendix D, addresses all requirements identified in Public Utilities Code Section 366.2(c)(4), including universal access, reliability, equitable treatment of all customer classes and any requirements established by state law or by the CPUC concerning aggregated service, while streamlining public review of pertinent changes related to MCE's anticipated expansion.

CHAPTER 2 – CHANGES TO ADDRESS MCE EXPANSION TO SOLANO COUNTY

As previously noted, this Addendum No. 6 addresses the anticipated impacts of MCE's planned expansion to Solano County (unincorporated areas), as well as other forecast modifications reflecting the most recent historical electric energy use within MCE's existing service territory. As a result of this member addition, certain assumptions regarding MCE's future operations have changed, including customer energy requirements, peak demand, renewable energy purchases, revenues, expenses and various other items. The following section highlights pertinent changes related to this planned expansion. To the extent that certain details related to membership expansion are not specifically discussed within this Addendum No. 6, MCE represents that such information shall remain unchanged relative to the July 18, 2014 Implementation Plan revision.

With regard to the defined terms Members and Member Agencies, the following Communities are now signatories to the MCE Joint Powers Agreement and represent MCE's current membership:

Member Agencies
City of American Canyon
City of Belvedere
City of Benicia
City of Calistoga
City of Concord
County of Contra Costa
Town of Corte Madera
Town of Danville
City of El Cerrito
Town of Fairfax
City of Lafayette
City of Larkspur
County of Marin
City of Martinez
City of Mill Valley
Town of Moraga
City of Napa
County of Napa
City of Novato
City of Oakley
City of Pinole
City of Pittsburg
City of Richmond
Town of Ross
Town of San Anselmo
City of Saint Helena
City of San Pablo
City of San Rafael
City of San Ramon
City of Sausalito
County of Solano
Town of Tiburon
City of Walnut Creek
Town of Yountville

Throughout this document, use of the terms Members and Member Agencies refer to the aforementioned Communities. To the extent that the discussion herein addresses the process of

aggregation and MCE organization, each of these communities is now an MCE Member and the electric customers of such jurisdictions have been or will be offered CCA service consistent with the noted phase-in schedule.

Aggregation Process

MCE’s aggregation process was discussed in Chapter 2 of MCE’s July 18, 2014 Revised Implementation Plan. This first paragraph of Chapter 2 is replaced in its entirety with the following verbiage:

As previously noted, MCE successfully launched its CCA Program, MCE, on May 7, 2010 after meeting applicable statutory requirements and in consideration of planning elements described in its initial Implementation Plan. At this point in time, MCE plans to expand agency membership to include Solano County (unincorporated areas). This community has requested MCE membership, and MCE’s Board of Directors subsequently approved this membership request at a duly noticed public meeting on October 18, 2018.

Program Phase-In

Program phase-in was discussed in Chapter 5 of MCE’s July 18, 2014 Revised Implementation Plan. Chapter 5 is replaced in its entirety with the following verbiage:

MCE will continue to phase-in the customers of its CCA Program as communicated in this Implementation Plan. To date, six complete phases have been successfully implemented, and a seventh phase will commence in April 2020. The seventh phase will include service commencement to customers located within Solano County (unincorporated areas), as reflected in the following table.

MCE Phase No.	Status & Description of Phase	Implementation Date
Phase 1: 8,500 Accounts	Complete: MCE Member (municipal) accounts & a subset of residential, commercial and/or industrial accounts, comprising approximately 20 percent of total customer load within MCE’s original Member Agencies.	May 7, 2010
Phase 2A: 6,100 Accounts	Complete: Additional commercial and residential accounts, comprising approximately 20 percent of total customer load within MCE’s original Member Agencies (incremental addition to Phase 1).	August 2011
Phase 2B: 79,000 Accounts	Complete: Remaining accounts within Marin County.	July 2012
Phase 3: 35,000 Accounts	Complete: Residential, commercial, agricultural, and street lighting accounts within the City of Richmond.	July 2013

MCE Phase No.	Status & Description of Phase	Implementation Date
Phase 4A: 14,000 Accounts	Complete: Residential, commercial, agricultural, and street lighting accounts within the unincorporated areas of Napa County, subject to economic and operational constraints.	February 2015
Phase 4B: 30,000 Accounts	Complete: Residential, commercial, agricultural, and street lighting accounts within the City of San Pablo, the City of Benicia and the City of El Cerrito, subject to economic and operational constraints.	May 2015
Phase 5: 83,000 Accounts	Complete: Residential, commercial, agricultural, and street lighting accounts within the Cities of American Canyon, Calistoga, Lafayette, Napa, Saint Helena, Walnut Creek and the Town of Yountville.	September 2016
Phase 6: 216,000 Accounts	Complete: Residential, commercial, agricultural, and street lighting accounts within Contra Costa County (unincorporated areas); the cities of Concord, Martinez, Oakley, Pinole, Pittsburg and San Ramon; and the towns of Danville and Moraga.	April 2018
Phase 7: 11,000 Accounts	Pending Implementation Plan Certification: Residential, commercial, agricultural, and street lighting accounts within Solano County (unincorporated areas).	April 2020 (planned)

This approach has provided MCE with the ability to start slow, addressing problems and unforeseen challenges associated with a small, manageable CCA program before offering service to successively larger groups of customers. Following completion of Phase 7 customer enrollments, MCE expects to serve a customer base of approximately 480,000 accounts. This approach has also allowed MCE and its energy suppliers to address all system requirements (billing, collections and payments) under a phase-in approach that was designed to minimize potential exposure to uncertainty and financial risk by “walking” (when serving relatively small account totals) prior to “running” (when serving much larger account totals). The Board may evaluate other phase-in options based on future market conditions, statutory requirements and regulatory considerations as well as other factors potentially affecting the integration of additional customer accounts.

Sales Forecast

With regard to MCE’s sales forecast, which is addressed in Chapter 6, Load Forecast and Resource Plan, MCE assumes that total annual retail sales will increase to approximately 5,500 GWh following Phase 7 expansion. The following tables have been updated to reflect the impacts of planned expansion to MCE’s new membership.

Chapter 6, Resource Plan Overview

Marin Clean Energy Proposed Resource Plan (GWh) 2010 to 2021												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
MCE Demand (GWh)												
Retail Demand	-91	-185	-570	-1,110	-1,252	-1,710	-2,103	-3,036	-4,620	-5,656	-5,834	-5,918
Distributed Generation	0	2	4	5	9	14	135	121	127	446	527	610
Energy Efficiency	0	0	0	0	1	3	3	5	7	10	15	21
EV Demand	0	0	0	0	0	0	-22	-29	-37	-75	-125	-210
Losses and UFE	-5	-11	-34	-66	-74	-102	-119	-176	-271	-317	-325	-330
Total Demand	-97	-195	-601	-1,172	-1,316	-1,795	-2,106	-3,115	-4,795	-5,592	-5,742	-5,826
MCE Supply (GWh)												
<u>Renewable Resources</u>												
Generation	0	0	0	0	0	0	0	0	0	0	0	0
Power Purchase Contracts	23	50	289	564	645	926	1,089	1,709	2,633	3,233	3,322	3,372
Total Renewable Resources	23	50	289	564	645	926	1,089	1,709	2,633	3,233	3,322	3,372
<u>Conventional/Hydro Resources</u>												
Generation	0	0	0	0	0	0	0	0	0	0	0	0
Power Purchase Contracts	74	145	312	608	670	869	1,017	1,406	2,162	2,359	2,420	2,454
Total Conventional/Hydro Resources	74	145	312	608	670	869	1,017	1,406	2,162	2,359	2,420	2,454
Total Supply	97	195	601	1,172	1,316	1,795	2,106	3,115	4,795	5,592	5,742	5,826
Energy Open Position (GWh)	0	0	0	0	0	0	0	0	0	0	0	0

Chapter 6, Customer Forecast

Marin Clean Energy Enrolled Retail Service Accounts Phase-In Period (End of Month)									
	May-10	Aug-11	Jul-12	Jul-13	Feb-15	May-15	Sep-16	Apr-18	Apr-20
MCE Customers									
Residential	7,354	12,503	77,345	106,510	120,204	145,874	225,128	421,325	430,493
Commercial & Industrial	579	1,114	9,913	13,098	15,316	17,884	27,274	44,708	46,226
Street Lighting & Traffic	138	141	443	748	1,014	1,156	1,866	3,670	3,973
Ag & Pumping	-	<15	113	109	1,467	1,467	1,700	2,051	3,274
Total	8,071	13,759	87,814	120,465	138,001	166,381	255,968	471,754	483,966

Marin Clean Energy Retail Service Accounts (End of Year) 2010 to 2021												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
MCE Customers												
Residential	7,354	12,503	77,345	106,510	106,510	145,874	225,128	226,254	421,325	423,432	430,493	432,645
Commercial & Industrial	579	1,114	9,913	13,098	13,098	17,884	27,274	27,410	44,708	44,932	46,226	46,457
Street Lighting & Traffic	138	141	443	748	748	1,156	1,866	1,875	3,670	3,688	3,973	3,993
Ag & Pumping	-	<15	113	109	109	1,467	1,700	1,709	2,051	2,061	3,274	3,290
Total	8,071	13,759	87,814	120,465	120,465	166,381	255,968	257,248	471,754	474,113	483,966	486,386

Chapter 6, Sales Forecast

Marin Clean Energy Energy Requirements (GWh) 2010 to 2021												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
MCE Energy Requirements (GWh)												
Retail Demand	91	185	570	1,110	1,252	1,710	2,103	3,036	4,620	5,656	5,834	5,918
Distributed Generation	0	-2	-4	-5	-9	-14	-135	-121	-127	-446	-527	-610
Energy Efficiency	0	0	0	0	-1	-3	-3	-5	-7	-10	-15	-21
EV Demand	0	0	0	0	0	0	22	29	37	75	125	210
Losses and UFE	5	11	34	66	74	102	119	176	271	317	325	330
Total Load Requirement	97	195	601	1,172	1,316	1,795	2,106	3,115	4,795	5,592	5,742	5,826

Chapter 6, Capacity Requirements

Marin Clean Energy Capacity Requirements (MW) 2010 to 2021												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Demand (MW)												
Retail Demand	28	46	182	233	234	318	441	682	1,068	1,285	1,361	1,368
Distributed Generation	-	(1)	(2)	(3)	(5)	(8)	(77)	(81)	(85)	(318)	(376)	(435)
Energy Efficiency	-	-	-	-	-	-	(5)	(7)	(10)	(13)	(16)	(19)
EV Load	-	-	-	-	-	-	10	13	17	34	57	96
Losses and UFE	2	3	11	14	14	19	22	36	59	59	62	61
Total Net Peak Demand	30	47	191	244	243	328	391	643	1,049	1,048	1,088	1,070
Reserve Requirement (%)	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%	15%
Capacity Reserve Requirement	4	7	29	37	36	49	59	97	157	157	163	160
Capacity Requirement Including Reserve	34	55	220	281	279	378	450	740	1,206	1,205	1,251	1,230

Chapter 6, Renewables Portfolio Standards Energy Requirements

Marin Clean Energy RPS Requirements (MWh) 2010 to 2021												
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
*Retail Sales	91,219	183,741	566,640	1,105,310	1,241,233	1,693,246	1,986,409	2,938,886	4,523,279	5,275,013	5,417,339	5,496,210
Baseline	-	18,244	36,748	113,328	221,062	269,348	394,526	496,602	793,499	1,311,751	1,635,254	1,787,722
Incremental Procurement Target	18,244	18,504	76,580	107,734	48,286	125,179	102,076	296,897	518,252	323,503	152,468	179,921
Annual Procurement Target	18,244	36,748	113,328	221,062	269,348	394,526	496,602	793,499	1,311,751	1,635,254	1,787,722	1,967,643
% of Current Year Retail Sales	20%	20%	20%	20%	22%	23%	25%	27%	29%	31%	33%	36%

*Net of Energy Efficiency and Distributed Generation

**Marin Clean Energy
RPS Requirements and Program Renewable Energy Targets
(MWh)
2010 to 2021**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
*Retail Sales (MWh)	91,219	183,741	566,640	1,105,310	1,241,233	1,693,246	1,986,409	2,938,886	4,523,279	5,275,013	5,417,339	5,496,210
Annual RPS Target (Minimum MWh)	18,244	36,748	113,328	221,062	269,348	394,526	496,602	793,499	1,311,751	1,635,254	1,787,722	1,967,643
Program Target (% of Retail Sales)	25%	27%	51%	51%	52%	55%	55%	58%	58%	61%	61%	61%
Program Renewable Target (MWh)	22,805	49,610	288,986	563,708	645,441	926,138	1,088,592	1,709,269	2,632,525	3,233,008	3,321,963	3,371,708
Surplus In Excess of RPS (MWh)	4,561	12,862	175,658	342,646	376,094	531,612	591,989	915,770	1,320,774	1,597,754	1,534,241	1,404,065
Annual Increase (MWh)	22,805	26,805	239,376	274,722	81,733	280,697	162,454	620,677	923,256	600,483	88,955	49,745

*Net of Energy Efficiency and Distributed Generation

Chapter 6, Energy Efficiency

**Marin Clean Energy
Energy Efficiency Savings Goals
(GWH)
2010 to 2021**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
MCE Retail Demand	91	185	570	1,110	1,252	1,710	2,103	3,036	4,620	5,656	5,834	5,918
MCE Energy Efficiency Goal	0	0	0	0	-1	-3	-3	-5	-7	-10	-15	-21

Chapter 6, Demand Response

**Marin Clean Energy
Demand Response Goals
(MW)
2010 to 2021**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total Capacity Requirement (MW)	34	55	220	281	279	378	450	740	1,206	1,205	1,251	1,230
Greater Bay Area Capacity Requirement (MW)	5	9	35	44	44	40	48	79	125	184	133	131
Demand Response Target	-	-	-	-	-	-	-	-	-	3	6	15
Percentage of Local Capacity Requirement	0%	0%	0%	0%	0%	0%	0%	0%	0%	2%	5%	12%

Chapter 6, Distributed Generation

**Marin Clean Energy
Distributed Generation Projections
(MW)
2010 to 2021**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
DG Capacity	-	1	2	3	5	8	77	81	85	318	376	435

Financial Plan

With regard to MCE's financial plan, which is addressed in Chapter 7, Financial Plan, MCE has updated its expected operating results, which now include projected impacts related to service expansion within MCE's new member Community. The following table reflects updated operating projections in consideration of these planned expansions.

Chapter 7, CCA Program Operating Results

**Marin Clean Energy
Summary of CCA Program Phase-In
(January 2010 through December 2021)**

CATEGORY	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
I. REVENUES FROM OPERATIONS (\$)												
ELECTRIC SALES & OTHER REVENUE	10,529,582	20,457,577	43,687,317	81,279,541	97,203,892	141,251,837	169,550,635	208,613,288	333,956,504	375,509,679	387,224,816	391,455,571
LESS UNCOLLECTIBLE ACCOUNTS	-	(309,659)	(61,992)	(950,674)	(484,404)	(1,432,948)	(893,645)	(1,704,125)	(2,269,054)	(2,552,979)	(2,632,670)	(2,661,514)
TOTAL REVENUES	10,529,582	20,147,918	43,625,325	80,328,867	96,719,488	139,818,889	168,656,990	206,909,163	331,687,450	372,956,699	384,592,145	388,794,057
II. COST OF OPERATIONS (\$)												
(A) ADMINISTRATIVE AND GENERAL (A&G)												
STAFFING	433,250	605,855	923,190	1,376,429	1,953,241	2,778,126	4,199,088	5,362,173	8,255,933	9,090,955	9,363,684	9,644,595
CONTRACT SERVICES	1,711,537	1,394,953	2,920,222	4,081,277	4,360,839	4,821,343	5,762,064	5,944,191	12,760,088	12,789,299	13,157,403	13,381,838
IOU FEES (INCLUDING BILLING)	20,468	60,780	214,113	547,806	669,037	865,764	1,025,141	1,377,970	1,933,275	2,214,007	2,330,994	2,414,673
OTHER A&G	140,427	316,671	437,596	1,374,738	1,581,589	2,393,573	2,285,284	1,202,750	3,308,027	3,959,120	4,077,894	4,200,230
SUBTOTAL A&G	2,305,682	2,378,259	4,495,121	7,380,250	8,564,705	10,858,806	13,271,577	13,887,084	26,257,322	28,053,381	28,929,975	29,641,336
(B) COST OF ENERGY	7,418,662	15,167,808	33,340,133	71,137,536	82,201,115	116,789,531	138,679,332	187,067,809	255,691,939	334,089,834	335,491,414	350,705,109
(C) DEBT SERVICE	662,262	2,596,787	718,375	1,107,972	1,279,799	2,353,444	-	-	220,375	243,000	243,000	243,000
TOTAL COST OF OPERATION	9,724,343	17,546,067	37,835,255	78,517,786	90,765,821	127,648,337	151,950,909	200,954,893	281,949,261	362,143,215	364,421,389	380,346,445
CCA PROGRAM SURPLUS/(DEFICIT)	805,239	2,601,851	5,790,071	1,811,081	5,953,667	12,170,552	16,706,082	5,954,270	49,738,189	10,813,484	20,170,756	8,447,612
REPAYMENT OF LOAN PRINCIPAL	578,566	2,473,134	567,938	920,147	1,142,408	2,296,675	-	-	-	-	-	-

Expansion Addendum Appendices

Appendix A: Marin Clean Energy Resolution 2018-12

Appendix B: Joint Powers Agreement

Appendix C: Solano County Ordinance

Appendix D: Marin Clean Energy Revised Implementation Plan and Statement of Intent
(July 18, 2014)