



**Marin Clean Energy
Technical Committee Meeting
Monday, January 12, 2015
5:00 P.M.**

**San Rafael Corporate Center, Boro Room
750 Lindero Street, San Rafael, CA 94901**

Dawn Weisz
Executive Officer

Kathrin Sears
Chair
County of Marin

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Vice Chair
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City of Novato

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Town of Ross

Ford Greene
Town of San Anselmo

Genevieve Calloway
City of San Pablo

Ray Withy
City of Sausalito

Emmett O'Donnell
Town of Tiburon

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San Rafael, CA 94901

Agenda

- 1. Board Announcements (Discussion)**
- 2. Public Open Time (Discussion)**
- 3. Report from Executive Officer (Discussion)**
- 4. MCE Open Season (Discussion)**
- 5. Energy Efficiency (Discussion)**
- 6. Approval of 12.8.14 Meeting Minutes (Discussion/Action)**
- 7. Members & Staff Matters (Discussion)**
- 8. Adjourn**



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Open Season 2015

Greg Brehm

Director of Power Resources | Marin Clean Energy

January 12, 2015



- **Open Season Overview & Identification of Changes for 2015 Process**
- **Description of Requested Products & Key Requirements**
- **Proposal Evaluation**
- **Response Preparation & Additional Information**
- **Questions**



MCE Open Season – Purpose

Additional renewable energy purchases will be necessary to meet future demand of MCE customers:

- **CA RPS increase from 20% to 33% (2020)**
- **Minimum in-state delivery requirements increase from 50% to 75% (of total renewable energy deliveries)**
- **Aspiration to maximize in-state renewable procurement, with an emphasis on Local projects, sited within MCE service territory**
- **Transition to internally managed renewable energy supply portfolio**



MCE Open Season Highlights

MCE is requesting three specific products through the 2015 Open Season:

- **Portfolio Content Category 1 (“Bucket 1”) eligible renewable energy**
- **Portfolio Content Category 2 (“Bucket 2”) eligible renewable energy**
- **Carbon-free energy supply (hydroelectric)**

MCE will require selected respondent(s) to submit a Shortlist Deposit of \$3.00 per kilowatt upon their acceptance of shortlisting status (only applicable for new projects).

MCE will not accept/discuss substantive contract changes related to credit requirements.



MCE Open Season – Requested Products

Improved coordination with general resource planning efforts:

- Updated load forecast
- Updated renewable energy forecast

	2015	2016	2017	2018	2019	2020	2021	2022	2023
Open Position, RPS Renewables (GWh)*									
Product Content Category 1	-	-	-	-	37	50	38	31	24
Product Content Category 2	-	-	-	-	110	81	79	78	77
Subtotal, Open Position, Renewables	-	-	-	-	147	130	117	109	101

*RPS open positions are based on MCE’s internal renewable procurement targets, which exceed state-wide mandates

Participation limited to RPS-eligible products within the following Portfolio Content Categories:

- PCC1/Bucket 1
- PCC2/Bucket 2

	2015	2016	2017	2018	2019	2020	2021	2022	2023
Open Position, Carbon Free	43	126	124	122	120	111	109	108	106

Carbon free supply is typically sourced from hydroelectric generators located within California or the Pacific Northwest.



MCE Evaluation of Responses

Projects will be ranked based upon the following criteria:

- a. Project location & Local Benefits (i.e., local hiring and prevailing wages)
- b. Interconnection status, queue position and RA Deliverability status
- c. Siting, zoning permitting status
- d. Price
- e. Resource type & Proposed product i.e., PCC1, PCC2, etc.
- f. Qualifications of project team
- g. Ownership structure
- h. Environmental impacts and related mitigation requirements
- i. Financing plan & financial stability of project owner/developer
- j. Acceptance of MCE's standard contract terms
- k. Development milestone schedule



MCE Open Season – PCC 1

Key Requirements:

- **Product: PCC1-eligible; in-state with preference given to resources located in proximity to MCE service territory**
- **Minimum capacity: 1 MW AC**
- **Initial date of delivery: No sooner than January 1, 2019**
- **Term of agreement: Not more than 25 years**
- **Pricing:**
 - 1) **Single, flat price/MWh throughout contract term (required)**
 - 2) **Alternative pricing options (voluntary)**



MCE Open Season – PCC 2

Key Requirements:

- **Product: PCC2-eligible; WECC-located with preference given to resources located in proximity to MCE service territory**
- **Minimum capacity: 1 MW AC**
- **Initial date of delivery: No sooner than January 1, 2019**
- **Term of agreement: Shorter term agreements preferred**
- **Pricing:**
 - 1) **Single, flat price/MWh throughout contract term (required)**
 - 2) **Index plus**
 - 3) **Alternative pricing options (voluntary)**
- **Point of delivery: NP15 trading hub (per CAISO)**



MCE Open Season – Carbon Free

Key Requirements:

- **Product: Bundled hydroelectric power**
- **Minimum annual delivery requirement: 10,000 MWh**
- **Initial date of delivery: No sooner than Q2 2015**
- **Term of agreement: Not more than 25 years**
- **Pricing:**
 - 1) **Single, flat price/MWh throughout contract term**
 - 2) **Index plus**
- **Point of delivery: NP15 trading hub (per CAISO)**



Open Season – Response Preparation

- Responses due no later than 5:00 P.M. PPT on Monday, March 2nd
- Only electronic submittals will be accepted
- Respondents must use designated response templates (available online):
- Information provided in template must be complete
- Only one product per response template (copy/paste worksheet for additional product proposals)
- Any proposed contract changes must be submitted (as attachment to response) by March 2nd
- Questions: Greg Brehm, Director of Power Resources,
gbrehm@mceCleanEnergy.org



MCE Open Season – Additional Information

Anticipated schedule:

- Responses due: Monday, March 2nd, at 5:00 P.M. PPT
- Response evaluation and supplier interviews: March 9th – May 15th
- Short-list notification: June 1st (first business day following May 31st)
- Contract negotiation and approval: June 1st – October 31st

Administration:

- Questions: Greg Brehm, Director of Power Resources, gbrehm@mceCleanEnergy.org
- MCE website: <http://www.mceCleanEnergy.org/>
- MCE website: <https://mceCleanEnergy.info/>
- MCE procurement website: <http://www.mceCleanEnergy.org/energy-procurement>
 - Download overview, response templates and form PPA
 - Stay informed regarding process and document/form updates, schedule changes, etc.



Questions? Comments?





Energy Efficiency Update

Beckie Menten

Energy Efficiency Director | Marin Clean Energy

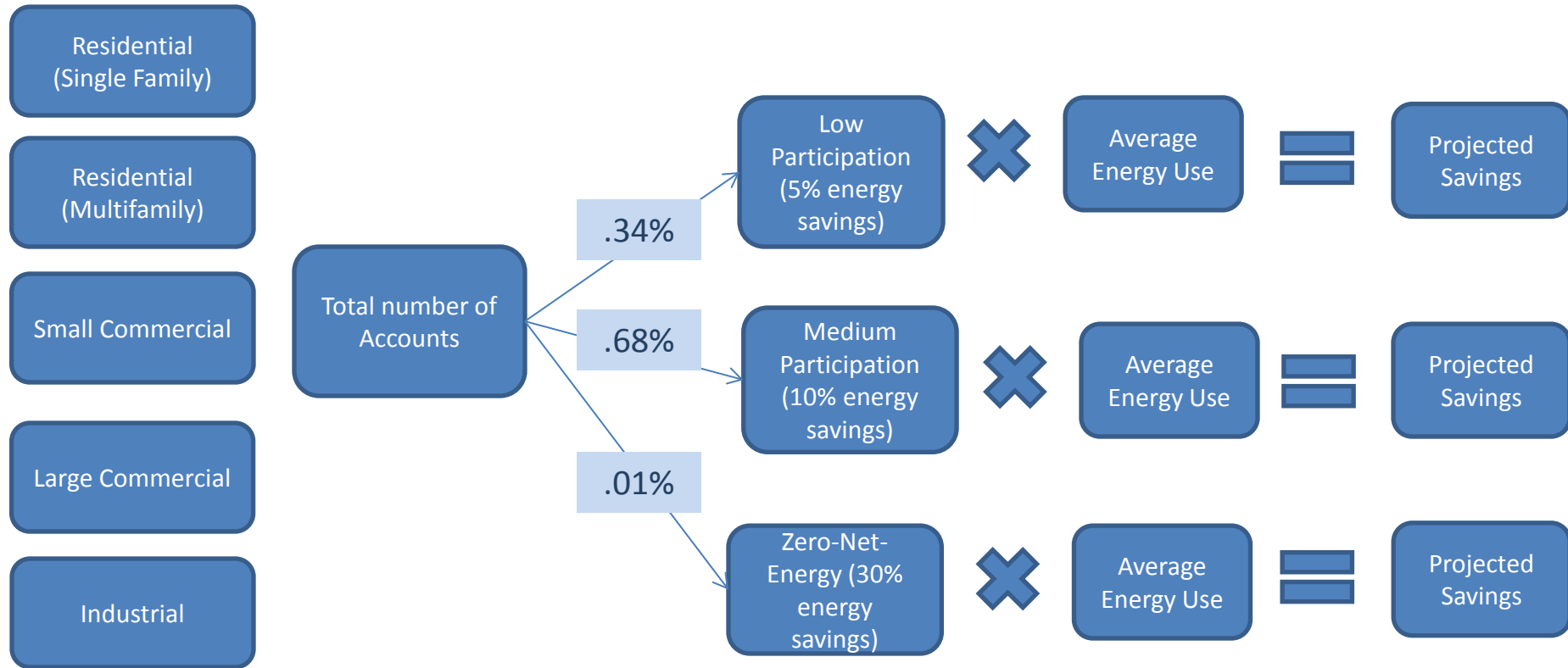
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2016: Technical Program Development

- Savings Potential Within Service Territory
- Preliminary Measure List
- Finalizing Program Budgets
- Final Step: Creation of E3 Calculator

Estimating Participation Levels and Potential Savings Helps Set an Overall Savings Target



Sample Proposed Measures List (MF)

Custom (c)	Preliminary Measure Description	Target Fuel: Electric, Gas, or Both	Initial Estimated Cost Effectiveness: High, Medium, Low
Multifamily			
	Showerheads	gas	HIGH
	Aerators	gas	HIGH
c	Central Pipe Insulation	gas	HIGH
	Central Heating Controls	gas	HIGH
	Free Residential (Apt) LED Lamp Only	electric	Medium
	Exterior LEDs	electric	Medium
c	Central Laundry Washer	gas	Medium
	Demand DHW Recirculation Controls	both	Medium
c	Temperature DHW Recirculation Controls	both	Medium
	Common Area LEDs	electric	Medium
	Refrigerator (pre-1993)	electric	Medium
	Roof Insulation from None Existing	both	Medium
	Variable Speed Pump (Central Boiler Heating)	electric	Medium
	Wall Insulation from None Existing	both	Medium
c	Pool Pump VFD	electric	Medium
c	Residential (Apt) Pipe Insulation	gas	Medium

Development of an Alternate Cost Benefit Metric

- Working with WSP Global
- Picking Up on Work SMUD Started
- Phase 1: Defining Tool Needs and Methodology
- Phase 2: Development of Excel Based Tool
 - Evaluate Energy Improvements on Equal Footing (i.e. solar panels and energy efficiency)

Questions?

**MARIN CLEAN ENERGY
TECHNICAL COMMITTEE MEETING
December 8, 2014
5:00 P.M.
SAN RAFAEL CORPORATE CENTER, BORO ROOM
750 LINDARO STREET, SAN RAFAEL, CA 94901**

Roll Call

Present:

Kate Sears, County of Marin, Chair
Ray Withy, City of Sausalito
Carla Small, Town of Ross
Emmett O'Donnell, Town of Tiburon
Ford Greene, Town of San Anselmo

Absent:

Kevin Haroff, Town of Larkspur

Staff:

Dawn Weisz, Executive Officer
Emily Goodwin, Director of Internal Operations
Rafael Silberblatt, Program Specialist

Action taken:

Agenda Item #4 – Approval of Minutes from 10.21.14 Meeting (Discussion/Action)

M/s Ford/O'Donnell (passed 5-0) approval of minutes from 10.21.14 meeting. Director Haroff was absent.

Kate Sears, Chair

ATTEST:

Dawn Weisz, Executive Officer