Community Power Coalition

4th 2017 meeting
September, 2017
Guest speaker - Srinidhi Sampath presenting on MCE’s newest pilot, Low-income Families and Tenant (LIFT) program

- Summary of eclipse’s impact on solar
- Redwood Landfill Ribbon Cutting
- Local project development update
- MCE naming update
- Deep Green Dream, 2017 update
- Summary of recent legislative hurdles
- New videos to share
- Energize Richmond results
- GRID Alternatives update
- PCIA OIR Scoping Memo

Other member updates or future agenda items?
Low Income Families & Tenants (LIFT) pilot
MCE
Low Income Families and Tenants (LIFT) Pilot Program
<table>
<thead>
<tr>
<th>Number of persons in household</th>
<th>Total gross annual household income</th>
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<tbody>
<tr>
<td>1-2</td>
<td>$32,480 or less</td>
</tr>
<tr>
<td>3</td>
<td>$40,840 or less</td>
</tr>
<tr>
<td>4</td>
<td>$49,200 or less</td>
</tr>
<tr>
<td>5</td>
<td>$57,560 or less</td>
</tr>
<tr>
<td>6</td>
<td>$65,920 or less</td>
</tr>
<tr>
<td>7</td>
<td>$74,280 or less</td>
</tr>
<tr>
<td>8</td>
<td>$82,640 or less</td>
</tr>
<tr>
<td>9</td>
<td>$91,000 or less</td>
</tr>
<tr>
<td>10</td>
<td>$99,360 or less</td>
</tr>
<tr>
<td>Each additional person, add</td>
<td>$8,360</td>
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</table>
LIFT Program

$3.5 million
October 2017 Launch

Program Components
- Layered Rebates
- CBO partnerships
- Heat pumps
- SPOC

Target population
- Hidden communities
- Multifamily communities
- Extremely Low Income
Layered rebates using the Multifamily program

Available to Market rate and affordable multifamily properties in all member communities
Current offerings:

• No cost energy assessments (valued at $3,000-$5,000; max deposit $500 reimbursed at completion)

• No cost technical assistance to solicit bids and develop scope of work

• Additional rebates through the Multifamily Energy Savings program

• Post-project quality assurance

• Minimum 1 year contractor warranty

Additional offerings

• $1,200 rebates per unit from LIFT

• No cost heat pumps in eligible properties
Program Process

1. Complete Online Questionnaire and meet Income Eligibility
2. Submit Intent to Proceed & Good Faith Deposit
3. Schedule Assessment
4. Finalize Scope, & Hire Contractors
5. Complete Construction & Direct Install
6. Schedule Site Verification
7. Receive Rebate from MCE within 2 Weeks and fill out LIFT survey
Case Study from 2015

- Location: Tiburon, Novato & San Rafael
- Total units served: 206
- Total Rebates: $13,200

EAH Affordable Housing
<table>
<thead>
<tr>
<th>Resource</th>
<th>Annual Savings</th>
<th>Cost</th>
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<tbody>
<tr>
<td>2,766 Therms</td>
<td>$3,043</td>
<td></td>
</tr>
<tr>
<td>25,111 kWh</td>
<td>$3,767</td>
<td></td>
</tr>
<tr>
<td>404,844 Gal</td>
<td>$810</td>
<td></td>
</tr>
</tbody>
</table>

**Total Savings:** $7,620

= 77,443 Miles driven by an average passenger vehicle*

= 10,121+ Average bathtubs filled with water*

*EPA
## Multifamily Program Accomplishments

**January 2013 to July 2017**

### Energy Saved
- 710 MWh
- 59,384 Therms

### Water Saved
- 11.5 million+ gallons

### Buildings Audited
- 662

### Total Rebates
- $522,086

### Total Units Served
- 12,986

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### Greenhouse Gas Emissions from

- 91 units
- 180 cars
- 994 acres

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Multifamily Program Accomplishments
What you can do?

- Reaching out to communities
- Engaging housing agencies and nonprofits
- Referring properties
- Promoting our SPOC model and knowledge of MCE’S programs
- Supporting our larger goals
Thank You!

Srinidhi Sampath Kumar
Customer Program Specialist
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(415) 464-6658
MCE Updates
In the dark about what happened during the eclipse?

**START:** Eclipse started at 9:11 a.m. on August 21. Solar production started at 6,392 MW then dropped to 2,845 MW at maximum darkness (10:24 a.m.); a dip of 3,547 MW. One megawatt typically powers 750 to 1,000 homes.

**DURING:** Solar output fell roughly 48.4 MW / minute during the 73 minutes it took from start to peak obscuration. From 10:24 to 11:17 a.m., solar generation rose by 4,064 MW to 6,909 MW.

**AFTER:** At 11:17 a.m., the market started curtailing solar production. Even more impressive was the fast climb of solar output following the end of the eclipse (11:55 a.m. - 12:13 p.m.). There was a ramp rate of 150 MW per minute, on average. This was a result of solar generators coming back online all at once.

To read more about the eclipse: caiso.com/Documents/CaliforniaISOSuccessfullyWeatheredSolarOutputDropDuringEclipse.pdf
Redwood Landfill, Feed-in Tariff

September 20th ribbon-cutting at the Redwood Landfill and Recycling Center

First local bioenergy project

Partnership with WM (Waste Management)

3.9 megawatts. Baseload. Enough for 5,000 homes.
MCE recently accepted seven new (FIT) applications, six of which came in August.

- 2 in City of Napa
- 3 in American Canyon (possibly 4)
- 1 in Oakley, which just joined MCE in July!
New California Renewables

Related to FIT, updated California development numbers (as of 9/21/17):

*Missing: 5-6 new FIT applications

<table>
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<th>Phase</th>
<th>Expected production (GWhs)</th>
<th>Project Capacity (MWs)</th>
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<tbody>
<tr>
<td>Online</td>
<td>632.64</td>
<td>188.67</td>
</tr>
<tr>
<td>Construction (steel in the ground)</td>
<td>23.5</td>
<td>10.5</td>
</tr>
<tr>
<td>Development (interconnection agreement executed; PPA in process of being signed)</td>
<td>1,486.94</td>
<td>613.08</td>
</tr>
<tr>
<td>Totals</td>
<td>2,143.08</td>
<td>812.245</td>
</tr>
<tr>
<td></td>
<td>(~79% of 2017 load)</td>
<td>(~149% of 2017 peak)</td>
</tr>
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</table>

Marin & Contra Costa Projects:
19.95 MWs; 64.1GWhs
Thank you for the all time and feedback you’ve generously provided for MCE’s naming exploration. As you may be aware, the timing of a naming decision is largely influenced by the upcoming Contra Costa enrollment activities, which will quickly begin ramping up in October/November.

In order to provide our Board with adequate time to deliberate our name, and to afford our newest Contra Costa Board members, who are still joining this fall, the opportunity to provide substantive input, we will be continuing our naming discussions to a future meeting in 2018.

All of the valuable insights and feedback that you and others have provided have been collected and will be reviewed when the discussion resumes. Thank you for all of your time and input!

-- MCE’s Marketing Team

We’ll still smell as sweet!
Growth of Deep Green

- 4,800 customers in Jan 2017 grows to 6,700 customers in Sept 2017
- Over 23,500 metric tons of carbon reduced
- 4% of current load
New 2017 Deep Green Customers

12 Local Govs Opted Up

- Joining Belvedere, Fairfax, San Anselmo, San Pablo (city hall), Sausalito
- Direct email marketing to residents
- Lafayette also opted up, but did so after this graphic was created

~6,000 Metric Tons of GHG Reduced
Deep Green Dream!

Prior to launch in the new communities, we will hit our 2025 goal of 5% of our current load in Deep Green.

Current DG enrollment is about 2.62% of MCE accounts.

Six of MCE’s Deep Green local governments are partnering on an email outreach campaign to increase opt ups.

Preliminary results: ~9,000 emails sent & more to go 86 opt ups! (~1%)

Jan 2017: ~4,800 accounts, Sept 2017: ~6,700 accounts. That’s a 37% increase in 9 months!
Adoption of Deep Green

Highest % of accounts enrolled in Deep Green by community

- Fairfax: 7.78%
- El Cerrito: 5.80%
- Marin Co.: 5.02%
- San Anselmo: 4.89%
- Ross: 4.02%
- Corte Madera: 3.93%
- Mill Valley: 3.78%
- Sausalito: 3.49%
- San Rafael: 3.36%
New 2017 Deep Green Customers

19 New Deep Green Champion Businesses

~6,000 Metric Tons of GHG Reduced
#OptUP Easily on Your Mobile Device

1. Go to mc.eoptup.org
2. Fill in your name, email, address, and phone number
3. Tap the authorization box
4. Hit submit!
2017 Legislation

- SB 618 (Bradford)
- Potential CCA Freeze
- AB 726/AB 813 (Holden)
- SB 100 (De León)
- And six others
Visual Story Telling

Feel free to share with your networks!

New English videos:
Local Project - Cooley Quarry
Local Project - Buck Institute
Local Project - Solar One update 1; update 2
Local Project - Redwood Landfill
Local Projects - Compilation of many sites

Deep Green Champion - The New Wheel, Larkspur
Deep Green Promotion - What will you #OptUp for? (15 secs; 30 secs)

Net Energy Metering, English
MCE Local Workforce Development Partners, stay tuned!

New Spanish videos:
Deep Green Champion - Rising Loafer Café and Bakery, Lafayette
Net Energy Metering, Spanish
Energize Richmond results

- 73 businesses enrolled after contact with MCE and/or our partners
- 58% spoke English as a second language (primarily Spanish)
- 394,688 kWh projected energy savings
- $122,000 incentives invested by the City of Richmond
- $87,134 incentives invested by EBEW and MCE
Allocated $155,000 in solar rebates, administered by GRID Alternatives

Helped fund 68 solar installations for low-income families → 167 kWs of new, local solar

$1.5M in expected energy savings for avoided electricity costs

Estimated 3,000 metric tons of GHG emissions eliminated

Soon available for main service panel upgrades

“I live in a four-unit building in Atchison Village and a couple of weeks ago GRID alternatives installed solar panels on the roof for all 4 of us. The installation cost us nothing because we qualified as low-income, and interestingly, I noticed that a significant portion of the money supporting the project came from MCE. I've been a Deep Green MCE customer since it first became available here. Yet another way that our city shines!!!”

Testimonial from a Richmond resident
OIR Scoping Memo

OIR - 2 tracks

1st: CARE & Medical Baseline Exemption (briefing in Dec 2017; proposed decision in April 2018)

2nd: PCIA Data Access, Transparency, Reform (briefing in March/April 2018; proposed decision in July 2018)

Degrees of involvement: from informal public comment to the CPUC to formal regulatory engagement

Extremely aggressive timeline

<table>
<thead>
<tr>
<th></th>
<th>PG&amp;E</th>
<th>SCE</th>
<th>SDG&amp;E</th>
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</thead>
<tbody>
<tr>
<td>CCA Customers</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>(not CARE or Medical Baseline)</td>
<td></td>
<td></td>
<td>(other than residential)</td>
</tr>
<tr>
<td>CCA CARE Customers</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>CCA Medical Baseline Customers</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

400% increase since 2012
Fin
Additional Slides
Opt Outs (8/1/17)

- 2010-12 Service Start: Novato, Marin Co., Ross, Belvedere, San Rafael, Tiburon, Cotati, Larkspur, San Anselmo, Mill Valley, Fairfax, Sausalito, Richmond, Benicia, San Pablo, Napa Co., El Cerrito, American Canyon.
- 2013 Service Start: 20% 20% 19% 19% 19% 19% 19% 22% 12% 11% 10% 13% 12% 11% 9% 9% 8% 7%.
- 2015 Service Start: 30% 25% 24% 23% 23% 23% 20% 20% 19% 19% 19% 19% 19% 19% 19% 19% 19% 19%.
- 2016 Service Start: 0%.
MCE Resource Locations (All, 2016)

- **California, 53%**
- **Washington, 17%**
- **Idaho, <1%**
- **Colorado, 9%**
- **Oregon, 2%**
- **Unspecified, 19%**

Use of Unspecified Sources decreased by ≈26%

Use of California resources increased by ≈43%
MCE Resource Locations (RE Only, 2016)

- California, 71%
- Washington, 8%
- Idaho, <1%
- Colorado, 16%
- Oregon, 4%

Use of Out-of-State resources decreased by ≈46%
Use of California resources increased by ≈54%