Shiloh Wind Farm in Solano County, 25 MW for MCE in 2018
Community Development
• MCEv
• Sunshares
• Lafayette Gift of Green
• Solano Outreach

Policy
• PCIA Proposed Decision and Alternate Proposed Decision

Procurement
• Feedback on procurement priorities
• Methodology for Community Benefits

Questions? Open time.
MCE is offering $1.5 million in rebates to:
1. Install 540 charging ports;
2. Allow EV access to 100 low-income households
3. Provide Technical Assistance
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**Track 1: EV Charge Network**
- Leverages PG&E’s EV Charge Network to build 10+ ports/site in MCE service area
- PG&E pays for 100% of infrastructure upgrades and 25-100% of charging equipment
- MCE’s rebate for addt’l cost of charging equipment
- MCE ensures EVSEs shift load away from peak hours, increase load when generation is plentiful
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Track 2:
- MCE rebate up to full cost of charger installation & equipment
- 2-20 ports/site, targeting workplaces and multi-unit dwellings
- Income qualifying rebate ≤$3,500 for new or used EV
We need your help building our pipeline!

Charging Infrastructure – $1,610-$2,500/port

- Workplaces: Ryan Maecker
  rmaecker@mcecleanenergy.org

- Multi-family: Gabi Lichtenstein
  glichtenstein@mcecleanenergy.org

- Municipal and low-income communities: Justin Marquez
  jmarquez@mcecleanenergy.org

“To blame for the increase in vehicle pollution is a combination of low gas prices, a growing economy, consumers’ preference for roomier, less efficient vehicles and a slower-than-anticipated transition to electric models. Those factors are essentially wiping out gains from the state’s emissions-cutting regulations.”

Discounted Rooftop Solar and EV Purchasing

SunShares is a renewable energy program making it easier and more affordable for Bay Area residents to go solar or purchase an electric vehicle. SunShares offers a 15% discount on solar installation and pre-vetted solar providers. Discounts are available for purchasing and leasing select 2018 electric vehicles.

Sign up before November 15th:

www.bayareasunshares.org

More info: sunshares@bc3sfbay.org
At the semi-centennial party on July 29th, we received requests from THIRTY FOUR new homes to opt-up and be part of the Gift of Green. Thirty four!

This is the most opt-ups we have EVER received in one event. In our eight years of operation, this was the most successful Deep Green event we have ever seen and it was absolutely the efforts of your team that made this possible.

Top Influencers for Opt-Ups:
1. Sustainable Lafayette
2. City of Lafayette
3. Temple Isaiah
Solano County and the City of Fairfield are actively considering joining MCE by the end of this year. County staff has submitted their load data, and in September, MCE will present at County Board and City Council meetings.
PCIA PD & APD

**Track 2:** A proposed decision (PD) was issued 8/1 outlining the possible future of this exit fee. This was generally positive since it did not approve the IOU’s GAM-PMM, set a cap for PCIA at 2.2c/kWh, and authorized CCAs to pre-pay the PCIA.

On 8/14, Commissioner Peterman issued an Alternate Proposed Decision (APD) that included dramatic, unfavorable changes to the PD. The APD would result in a higher PCIA by including more legacy contracts (utility owned generation - UOG), terminating the current 10-year recovery period limit for post-2002 UOG and certain storage costs, and removing the static cent/kWh cap (i.e., 2.2 c/kWh) favoring instead up to a 25% annual fluctuation.

We’re still figuring out what this means, but generally would anticipate this decision leading to a ~30% increase in MCE’s 2019 PCIA. Comments on the APD are due on 9/4. The Commission will decide between the PD and the APD and may do so on September 13th.

**Track 1:** CARE & Medical Baseline exemptions

Commission unanimously eliminated PCIA exemptions for CCA Medical Baseline and CARE customers, starting 1/1/19. The decision applies to SCE & SDG&E, NOT PG&E. Desert Community Energy launches in August and will not receive exemptions.
MCE recently was deliberating contracting a big solar project (100 MW) in our service area:

- **Good:** Create union jobs
- **Not-So-Good:** above market costs, and would leave us with fewer dollars to spend on above market smaller-scale, local projects.
Question:

What are good methodologies for quantifying the qualitative benefits of local renewable energy projects?
MCE General Updates

MCE Job Announcements

• Manager of Compliance Operations
• Customer Programs Specialist I

MCE Event Calendar

• 9/8/2018 Pittsburg Annual Seafood and Music Festival
• 9/8/2018 Richmond National Drive Electric Week
• 9/11/2018 Global Climate Action Summit MCE Solar One Affiliate Event
• 9/15/2018 Lafayette 2018 Art and Wine Festival
• 9/15/2018 Marin County National Drive Electric Week
• 9/16/2018 Napa County National Drive Electric Week
Fin
### SunShares: System Pricing Example – 4.0kW (DC)

#### Equipment

<table>
<thead>
<tr>
<th>Panels</th>
<th>Mission Solar</th>
<th>Canadian Solar Mission Solar</th>
<th>Sun Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Wattage</td>
<td>300w</td>
<td>300w - 335w</td>
<td>320w - 360w</td>
</tr>
<tr>
<td>Inverter (Central)</td>
<td>Solar Edge</td>
<td>Solar Edge and Enphase</td>
<td>Sun Power</td>
</tr>
</tbody>
</table>

#### Pricing

<table>
<thead>
<tr>
<th>Price / watt</th>
<th>$3.40 - $3.80/watt</th>
<th>$2.97 - $3.65/watt</th>
<th>$3.45 - $4.00/watt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base System Price</td>
<td>$13,600 ($4,080)</td>
<td>$11,880 ($3,564)</td>
<td>$13,800 ($4,140)</td>
</tr>
</tbody>
</table>

Return of Investment

9.9 – 11.5 years ($100/month) | 6.6 – 7.7 years ($150/month)

Additional equipment and adder pricing details available on the program website
SunShares: Vehicle Incentives

Plug-in Electric Cars

2018 Nissan Leaf $ 32,845 MSRP

- Federal Tax Credit: up to $7,500
- State Rebate: $1,500 - $2,500
  - Nissan Leaf: $2,500
- PG&E “Fuel” Rebate: $500
- PG&E Nissan Leaf Rebate: $3,000 (9/30)
- Carpool Lane Sticker

- $4,334 SunShares Discount for purchase
- $12,359 SunShares Discount for lease

Total as low as $18,011

Hydrogen Fuel Cell Cars

2018 Toyota Mirai $58,365 MSRP

- Federal Tax Credit: Expired
- CA State Rebate: $5,000
- Free Fuel: 3 years/$15,000
- Carpool Lane Sticker

- $2,288 SunShares program discount

Total as low as $51,077
“California is on track to meet its clean-energy goals a decade early thanks in part to communities demanding and delivering renewable energy faster and cheaper than utilities can, according to a report released this morning.”

“A growing number of Community Choice Aggregators (CCAs) in California are not only delivering a higher percentage of renewable energy than utilities, they’re also causing utilities to offer a higher percentage, according to the report by the UCLA Luskin Center for Innovation.”

“The rise of CCAs has had both direct and indirect positive effects on overall renewable energy consumed in California, leading the state to meet its 2030 RPS targets approximately ten years in advance,” write Luskin Center director JR DeShazo, lead author Julien Gattaciecca and co-author Kelly Trumbull.
As California customer choice options expand, regulators work to ensure grid costs are equitable

Utility Dive, August 3

“Community choice aggregation (CCA) is growing rapidly in California, and a new report estimates that at current rates the alternative providers will serve more than half the state's customers within a decade.”

“The new analysis from Next 10 finds CCAs are currently serving an average of 52% renewable power, while the state’s investor-owned utilities (IOU) are aiming for 50% by 2020. CCA offerings range from 37% to 100% renewables, while IOU plans range from 32% to 44% renewables.”

Full article:
“US corporate renewable energy procurement achieved a new record in 2018, with 3.57 gigawatts of announced clean energy projects so far this year.”

“The number one driver of these procurement deals we see are companies working to meet their sustainability goals. Companies are recognizing the importance of sustainability to their long-term business success. There are numerous benefits, including the protection of environmental assets important to their business, improved employee retention and company pride, and financial opportunities to hedge electricity spend using low-cost wind and solar power.
World Reaches 1,000GW of Wind and Solar, Keeps Going

Bloomberg NEF, August 2

Full article: https://about.bnef.com/blog/world-reaches-1000gw-wind-solar-keeps-going/

“…the world has attained the landmark figure of 1TW of wind and solar generation capacity installed. We estimate that the second terawatt of wind and solar will arrive by mid-2023 and cost 46% less than the first... total installed capacity has grown 65-fold since the year 2000, and more than quadrupled since 2010.

PV has grown from 8% of total installed capacity, to 46%. PV installations grew 57-fold... Wind still represents the majority of the installed base at 54%, but is likely to relinquish this lead soon.”

Global wind and solar installations, cumulative to June 30, 2018

Source: Bloomberg NEF. Note: 1H 2018 figures for onshore wind are based on a conservative estimate; the true figure will be higher. BNEF typically does not publish mid-year installation numbers.