TOGETHER WE’RE BUILDING A CLEANER ENERGY FUTURE FOR CALIFORNIA | 2019

From 2010–2018, MCE customers have eliminated more than 300,000 metric tons of greenhouse gas emissions — the equivalent of removing more than 64,000 cars from the road for one year or sequestering the same amount of carbon as over 350,000 acres of forest in one year.¹

BUILDING NEW RENEWABLES

MCE and its partners have committed more than $1.5 billion to build 678 MW of new renewable energy projects in California. This includes 31 MW in our service area. MCE was likely California’s largest purchaser of renewable energy in 2016. Below is a selection of MCE’s new California renewable energy projects currently under contract.

MCE’s New California Renewable Energy Projects

<table>
<thead>
<tr>
<th>RESOURCE &amp; CONTRACT TYPE²</th>
<th>RESOURCE PROVIDER / PROJECT NAME</th>
<th>LOCATION</th>
<th>PROJECT CAPACITY (MW)</th>
<th>SERVICE START DATE</th>
<th>CONTRACT LENGTH (YEARS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar FIT</td>
<td>San Rafael Airport</td>
<td>San Rafael, Marin Co.</td>
<td>1</td>
<td>2012</td>
<td>20</td>
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<tr>
<td>Solar FIT</td>
<td>Rawson, Blum &amp; Leon / Cost Plus Plaza</td>
<td>Larkspr, Marin Co.</td>
<td>0.265</td>
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<tr>
<td>Solar FIT</td>
<td>North Shore Solar Partners LLC / Freethy Industrial Parkway Unit #1</td>
<td>Richmond, Contra Costa Co.</td>
<td>1</td>
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<td>20</td>
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<td>North Shore Solar Partners LLC / Freethy Industrial Parkway Unit #2</td>
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<td>2016</td>
<td>20</td>
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<td>Solar FIT</td>
<td>Novato, Marin Co.</td>
<td>Novato, Marin Co.</td>
<td>1</td>
<td>2017</td>
<td>20</td>
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<tr>
<td>Biogas PPA</td>
<td>Waste Management / Redwood Landfill</td>
<td>Novato, Marin Co.</td>
<td>3.6</td>
<td>2017</td>
<td>20</td>
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<tr>
<td>Solar PPA</td>
<td>MCE / Solar One</td>
<td>Richmond, Contra Costa Co.</td>
<td>10.5</td>
<td>2017</td>
<td>25</td>
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<tr>
<td>Solar FIT</td>
<td>Hayworth-Fabian, LLC / Oakley RV &amp; Boat Storage</td>
<td>Oakley, Contra Costa Co.</td>
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<td>2018</td>
<td>20</td>
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<tr>
<td>Solar PPA</td>
<td>MCE / Solar Energy / Ostrom Road Landfill</td>
<td>San Rafael, Marin Co.</td>
<td>0.08</td>
<td>2018</td>
<td>20</td>
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<tr>
<td>Solar FIT</td>
<td>EO Products</td>
<td>San Rafael, Marin Co.</td>
<td>0.06</td>
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<tr>
<td>Biogas PPA</td>
<td>G2 Energy / Hay Road Landfill</td>
<td>Vacaville, Solano Co.</td>
<td>1.6</td>
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<td>18</td>
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<tr>
<td>Biogas PPA</td>
<td>Genpower / Lincoln Landfill</td>
<td>Lincoln, Placer Co.</td>
<td>4.8</td>
<td>2013</td>
<td>20</td>
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<tr>
<td>Biogas PPA</td>
<td>G2 Energy / Ostrom Road Landfill</td>
<td>Weottland, Yuba Co.</td>
<td>1.9</td>
<td>2013</td>
<td>18</td>
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<tr>
<td>Solar PPA</td>
<td>Dominion / Cottonwood Solar</td>
<td>Stratford, Kings Co.</td>
<td>23</td>
<td>2015</td>
<td>25</td>
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<tr>
<td>Solar PPA</td>
<td>Recurrent Energy / Mustang Solar Power Project</td>
<td>Lemoore, Kings Co.</td>
<td>30</td>
<td>2018</td>
<td>15</td>
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<td>Solar PPA²</td>
<td>Sempra / Great Valley Solar / sPower / Antelope Expansion 2</td>
<td>Tranquility, Fresno Co.</td>
<td>100</td>
<td>2018</td>
<td>25</td>
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<tr>
<td>Solar PPA²</td>
<td>Wind PPA / Terra-Gen / Voyager Wind II</td>
<td>Mojave, Kern Co.</td>
<td>42</td>
<td>2018</td>
<td>12</td>
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<td>Solar PPA²</td>
<td>MCE Solar One</td>
<td>Mendoz, Fresno Co.</td>
<td>160</td>
<td>2020</td>
<td>20</td>
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<tr>
<td>Solar PPA²</td>
<td>EDF Renewables / Desert Harvest</td>
<td>Desert Center, Riverside Co.</td>
<td>80</td>
<td>2020</td>
<td>20</td>
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<tr>
<td>Solar PPA²</td>
<td>Strauss Wind, LLC / Strauss Wind</td>
<td>Lompoc, Santa Barbara Co.</td>
<td>99</td>
<td>2020</td>
<td>15</td>
</tr>
</tbody>
</table>

5,000 CALIFORNIA JOBS

MCE’s renewable projects have supported 5,000 California jobs⁵ resulting in 1.25 million labor hours (60% are union labor hours). MCE’s sustainable workforce policy outlines support for local businesses, union members, training and apprenticeship programs, and support for green and sustainable businesses.

FOR MORE INFORMATION: mceCleanEnergy.org/energy-sources info@mceCleanEnergy.org

¹ Based on MCE’s aggregate portfolio emission factor and the EPA’s greenhouse gas equivalencies calculator at: epa.gov/energy/greenhouse-gas-equivalencies-calculator
² FIT=Feed-In Tariff; PPA=Power Purchase Agreement
³ 100% solar energy service option produced by a local solar farm within MCE’s service area.
⁴ Complies with CPUC’s G.O. 156 Utility Supplier Diversity Program.
⁵ MCE uses the National Renewable Energy Laboratory’s Jobs and Economic Development Impacts Model to provide consistent and reasonably accurate estimates of direct and indirect jobs involved in MCE’s power contracting efforts and general operations.
**A LOCAL RENEWABLE PROJECT TIMELINE | MCE SOLAR ONE IN RICHMOND, CA**

MCE Solar One’s 10.5 MW solar system is expected to produce 22,000 megawatt–hours per year of pollution–free electricity, which is enough energy to power over 3,900 homes. The project concept was initially conceived by the Richmond community as a way to include renewable energy and solar facilities in the Chevron Modernization Project.

### ENVIRONMENTAL BENEFITS

The amount of renewable electricity generated at MCE Solar One in one year is equivalent to*:

- Eliminates 3,234 metric tons of carbon dioxide in one year
- Taking more than 680 fossil–fuel cars off of the road for one year
- The carbon sequestered by 3,045 acres of forest in one year

* Based on MCE’s aggregate portfolio emission factor and the EPA’s greenhouse gas equivalencies calculator at: epa.gov/energy/greenhouse–gas–equivalencies–calculator

### PUBLIC BENEFITS

- Repurposes 60 acres of a remediated brownfield site
- Provides clean, local, renewable energy
- Supports 341 jobs
- Partners with job–training program RichmondBUILD that helps retool local residents for construction and clean energy jobs
- Aims to maximize local economic benefits by requiring 50% local resident workforce and engaging Richmond–based contractors and suppliers

### LOCAL RENEWABLE PROJECT TIMELINE

<table>
<thead>
<tr>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017 &amp; BEYOND</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richmond community identifies an opportunity for Chevron to include renewable energy features in the Chevron Modernization Project</td>
<td>MCE acts as Lead Agency for the Environmental Impact Report of the project and filed Notice of Determination</td>
<td>MCE secures Design Review Board approval</td>
<td>MCE issues a request for proposal for construction and financing services</td>
<td>Developers partner with job training program RichmondBUILD and local contractors to meet local hire requirement</td>
</tr>
<tr>
<td>MCE has a preliminary discussion with Richmond and Chevron about developing a solar farm on a remediated brownfield site on refinery property</td>
<td>MCE secures Design Review Board approval</td>
<td>MCE receives utility interconnection from PG&amp;E</td>
<td>MCE engages with Cenergy and sPower to build and finance the project, respectively</td>
<td>Construction began in Q2 2017</td>
</tr>
<tr>
<td>MCE conducts a feasibility study</td>
<td>MCE receives utility interconnection from PG&amp;E</td>
<td></td>
<td>MCE submits building permit</td>
<td>Commercial operation began in Q4 2017</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MCE hosts a groundbreaking ceremony</td>
<td>Solar One becomes the Bay Area’s largest public–private solar partnership</td>
</tr>
</tbody>
</table>

**2013**

- Richmond City Council negotiated and approved the Environmental and Community Investment Agreement to include a $1/year land lease
- Site offered to MCE to develop a solar farm for community benefit
- Richmond requires a minimum 50% local hire for Richmond residents
- MCE consults with and receives endorsement from Community Power Coalition about building solar project on Chevron land
- MCE begins to identify developers for Chevron Modernization Project
- MCE applies for interconnection with PG&E

**2014**

- MCE issues a request for proposal for construction and financing services
- MCE engages with Cenergy and sPower to build and finance the project, respectively
- MCE submits building permit
- MCE hosts a groundbreaking ceremony

**2015**

- MCE acts as Lead Agency for the Environmental Impact Report of the project and filed Notice of Determination
- MCE secures Design Review Board approval
- MCE receives utility interconnection from PG&E

**2016**

- MCE issues a request for proposal for construction and financing services
- MCE engages with Cenergy and sPower to build and finance the project, respectively
- MCE submits building permit
- MCE hosts a groundbreaking ceremony

**2017 & BEYOND**

- Developers partner with job training program RichmondBUILD and local contractors to meet local hire requirement
- Construction began in Q2 2017
- Commercial operation began in Q4 2017
- Solar One becomes the Bay Area’s largest public–private solar partnership
- MCE purchases all of the energy generated at the local project
- MCE to become project owner in 6–7 years
- MCE hosts a ribbon cutting ceremony

**PUBLIC BENEFITS**

- Repurposes 60 acres of a remediated brownfield site
- Provides clean, local, renewable energy
- Supports 341 jobs
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