

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

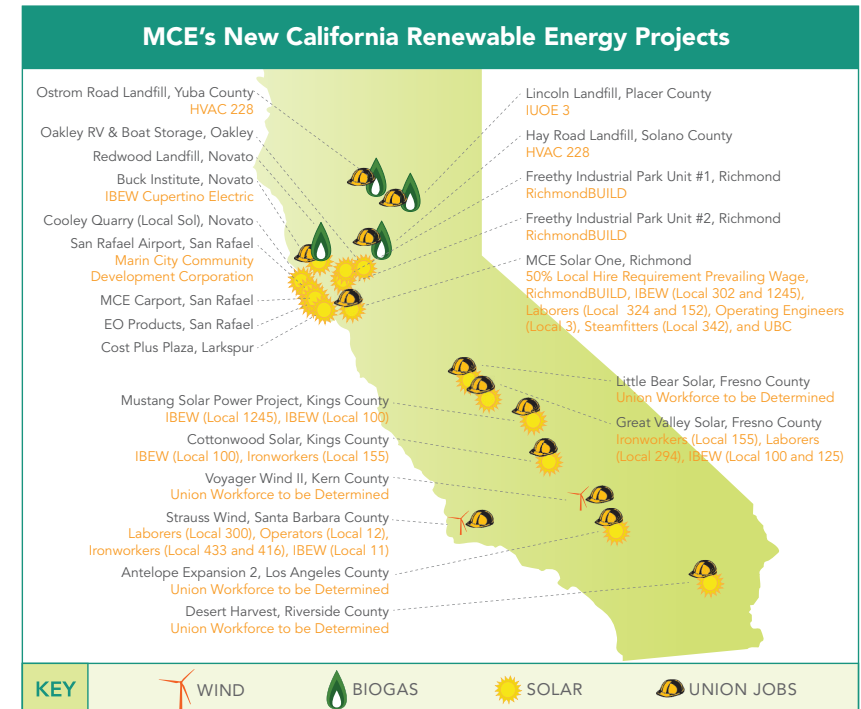
BUILDING NEW RENEWABLES

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.

	RESOURCE & CONTRACT TYPE ²	RESOURCE PROVIDER / PROJECT NAME	LOCATION	PROJECT CAPACITY (MW)	SERVICE START DATE	CONTRACT LENGTH (YEARS)
LOCAL (MCE Service Area)	Solar FIT	San Rafael Airport	San Rafael, Marin Co.	1	2012	20
	Solar PPA	Dominion / Buck Institute of Research on Aging	Novato, Marin Co.	1	2016	25
	Solar FIT	Rawson, Blum & Leon / Cost Plus Plaza	Larkspur, Marin Co.	0.265	2016	20
	Solar FIT	North Shore Solar Partners LLC / Freethy Industrial Parkway Unit #1	Richmond, Contra Costa Co.	1	2016	20
	Solar FIT	North Shore Solar Partners LLC / Freethy Industrial Parkway Unit #2	Richmond, Contra Costa Co.	1	2016	20
	Solar FIT	REP Energy / Cooley Quarry	Novato, Marin Co.	1 Local Sol ³	2017	20
	Biogas PPA	Waste Management / Redwood Landfill	Novato, Marin Co.	3.6	2017	20
	Solar PPA	MCE / Solar One	Richmond, Contra Costa Co.	10.5	2017	25
	Solar FIT	Hayworth-Fabian, LLC / Oakley RV & Boat Storage	Oakley, Contra Costa Co.	1	2018	20
	Solar PPA	MCE / Carport Shade Structure	San Rafael, Marin Co.	0.08	2018	20
	Solar FIT	EO Products	San Rafael, Marin Co.	0.06	2018	20
NEARBY (<100 Miles)	Biogas PPA	G2 Energy / Hay Road Landfill	Vacaville, Solano Co.	1.6	2013	18
	Biogas PPA	Genpower / Lincoln Landfill	Lincoln, Placer Co.	4.8	2013	20
	Biogas PPA	G2 Energy / Ostrom Road Landfill	Wheatland, Yuba Co.	1.9	2013	18
IN STATE (Within California)	Solar PPA	Dominion / Cottonwood Solar	Stratford, Kings Co.	23	2015	25
	Solar PPA	Recurrent Energy / Mustang Solar Power Project	Lemoore, Kings Co.	30	2018	15
	Solar PPA	Sempra / Great Valley Solar	Tranquillity, Fresno Co.	100	2018	25
	Solar PPA ⁴	sPower / Antelope Expansion 2	Lancaster, Los Angeles Co.	105	2018	20
	Wind PPA	Terra-Gen / Voyager Wind II	Mojave, Kern Co.	42	2018	12
	Solar PPA	First Solar / Little Bear Solar	Mendota, Fresno Co.	160	2020	20
	Solar PPA ⁴	EDF Renewables / Desert Harvest	Desert Center, Riverside Co.	80	2020	20
Wind PPA	Strauss Wind, LLC / Strauss Wind	Lompoc, Santa Barbara Co.	99	2020	15	

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.



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.

FOR MORE INFORMATION:
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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

- » Richmond community identifies an opportunity for Chevron to include renewable energy features in the Chevron Modernization Project
- » MCE has a preliminary discussion with Richmond and Chevron about developing a solar farm on a remediated brownfield site on refinery property
- » MCE conducts a feasibility study

- » 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

- » 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

2013

2014

2015

2016

2017 & BEYOND

- » 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

- » 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

