



Community Power Coalition

August 2018

Shiloh Wind Farm in Solano County, 25 MW for MCE in 2018

Agenda

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^{ev}

CHARGING PROGRAM

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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 \leq \$3,500 for new or used EV

MCEv⁺

CHARGING PROGRAM



We need your help building our pipeline!

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

- Workplaces: Ryan Maecker
rmaecker@mcecleanenergy.org
- Multi-family: Gabi Lichtenstein
glichenstein@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.**”

www.latimes.com/local/lanow/la-me-adv-california-climate-pollution-20180722-story.html



SUNSHARES

Simple. Affordable. Together.

Sign up before
November 15th:

www.bayareasunshares.org

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.

More info: sunshares@bc3sfbay.org

Gift of Green

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



88 DG Opt-Ups as of 8/27/2018

Solano County Outreach

THE BENEFITS OF MCE

Renewable Energy Options for Solano County



Joining MCE is the quickest, most reliable, and cost-effective route to providing Solano County with local control, meaningful energy options, and substantial greenhouse gas (GHG) reductions. Since 2014, MCE has helped Solano communities take control of their ratepayer dollars by expanding consumer choice, reducing utility costs, and investing in California-based renewable energy. These benefits have inspired cities and counties throughout the State to follow suit and pursue community choice energy.

1 Local Control

The vast majority of electricity customers in the City of Benicia, as well as those in Marin, Napa, and Contra Costa counties are already MCE customers. As a result, these communities exercise more local control over energy-related decisions through MCE's democratically elected Board of Directors. By joining MCE, Solano County would have more discretion over how ratepayer dollars are invested, whether in lower rates or in local project development. Unincorporated areas would unite with neighboring cities and counties that already provide MCE service, eliminating the risk of customer confusion if multiple programs operated in the same vicinity.

Current MCE Service Area



Save

MCE'S RATES ARE CURRENTLY
2-5% LOWER
THAN PG&E'S RATES.

Our customers & communities
are saving money.

Earn

IN MCE'S SERVICE AREA,
THE WIND & SUNLIGHT ARE LITERALLY
WORTH MORE TO PROJECT DEVELOPERS.

Since 2012, MCE has helped
develop over 19 MW of local
renewable energy.

MCE IS CALIFORNIA'S LONGEST SERVING
COMMUNITY CHOICE ENERGY PROGRAM

2 Minimize Financial Risk

- » **Economies of scale create efficiency and cost-effective administration** — Solano County can minimize redundancy and capitalize on collective investments in local energy projects, long-term power contracts, human resources, and community outreach.
- » **Avoid start-up costs** — There is no cost to join MCE at this time. Creating a new program would require millions of dollars in start-up financing, introduce risk and uncertainty, and could take years to begin providing service at comparable rates.

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.

Solano County Public Workshop
Held on August 20th



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.

Request from MCE's CEO

Feedback from the
Community Power
Coalition on a local,
large-scale solar
project.

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.

Request from Director of Power Resources

Discussion with
Community Power
Coalition

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

Panels	Mission Solar	Canadian Solar Mission Solar LG Neon	Sun Power
Panel Wattage	300w	300w - 335w	320w – 360w
Inverter (Central)	Solar Edge	Solar Edge and Enphase	Sun Power

Pricing

Price / watt	\$3.40 - \$3.80/watt	\$2.97 - \$3.65/watt	\$3.45 - \$4.00/watt
Base System Price	\$13,600 (\$4,080)	\$11,880 (\$3,564)	\$13,800 (\$4,140)

Return of Investment	9.9 – 11.5 years (\$100/month)	6.6 – 7.7 years (\$150/month)
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*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

Community Choice Is Driving California's Precocious Energy Revolution

By Jeff McMahon, August 2

Full article:

<https://www.forbes.com/sites/jeffmcmahon/2018/08/02/community-choice-is-driving-californias-precocious-energy-revolution/#4d91d7c77d82>

“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 Gattaciececa and co-author Kelly Trumbull.

As California customer choice options expand, regulators work to ensure grid costs are equitable

Utility Dive, August 3

Full article:

<https://www.utilitydive.com/news/as-california-ccas-double-regulators-work-to-ensure-grid-costs-are-equitab/529255/>

“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.”

US Corporate Renewable Energy Procurement Hits Record High

Clean Technica, August 10

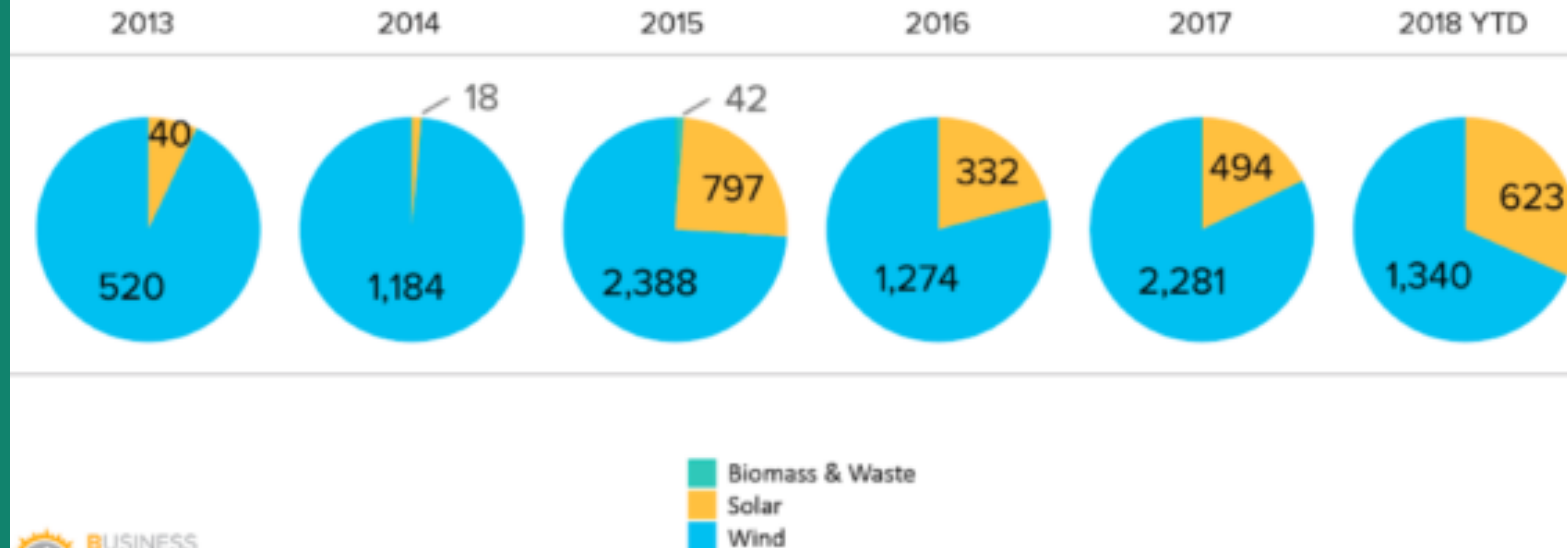
Full article:

<https://cleantechnica.com/2018/08/10/us-corporate-renewable-energy-procurement-hits-record-high/>

“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.”

Technology Evolution



World Reaches 1,000GW of Wind and Solar, Keeps Going

Bloomberg NEF, August 2

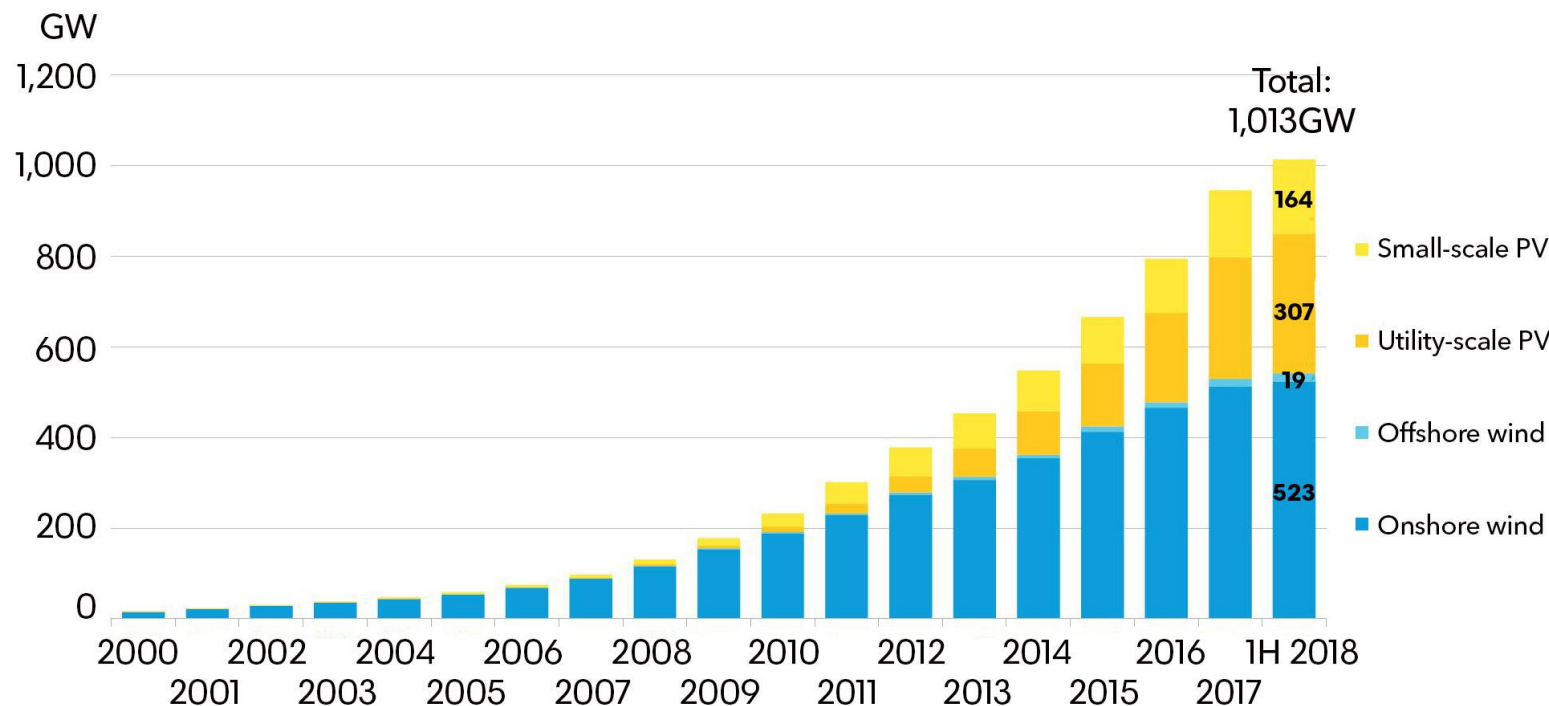
Full article:

<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.