



Community Power Coalition

January 2019

Ryan, Bill, and Chris celebrating our 10,000th Deep Green customer!

Agenda

Community Development (20 min)

- Reminder, please fill out the 2018 survey
- 🧐 Pop quiz 📖
- Community Comparisons: Digging into DG
- Get a load of this! (load data & statistics)



Procurement & Customer Programs (5 min)

- 🚗 EVs are EVerywhere! Market update 🔌
- Putting the Pro in Procurement ☀️

Policy (5 min)

- PG&E Bankruptcy
- Power Charge Indifference Adjustment

Guest speakers:

Alex Porteshawver, Drawdown: Marin (10 min)

Justin Kudo, Changes to 2019 PG&E Rates (15 min)

Questions? Open time (5+ min)



Help set our
2019 priorities!

<https://bit.ly/2Syu4mc>

2018 Survey

Help us grow by filling out this **10 question** survey. This will help us better understand your shifting priorities for how we can best support our communities:

Priorities moving into 2017:

1. Energy efficiency & solar rebates
2. Lower rates (reduce generation rates or PCIA)
3. Local renewable projects

Priorities moving into 2018:

1. Local renewable projects
2. Electric vehicle infrastructure
3. Increase Deep Green

QR code for 2019



How many years ahead of schedule will MCE reach the greenhouse gas targets set by SB 100?

100% GHG free by 2022, 23 years early

How much local generation is MCE offering through its Feed-in-Tariff program?

45 MW

How much local generation has MCE invested in helping build?

~20 MW operational and ~5 MW under contract

How many bucket 3 or "unbundled RECs" does MCE have in its portfolio as of 2019?

Zero

How much self-generation do our ~25,000 solar customers represent?

~300 MW

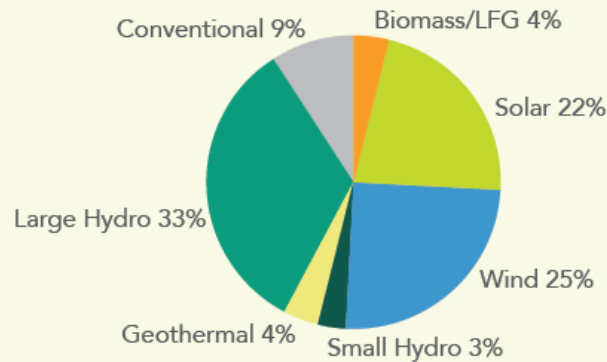
How much did MCE solar earn from overproduction in 2018?

\$1.8 million

How much have MCE customers saved on their electric bills?

~\$29 million in 2018 and \$50 million since 2010

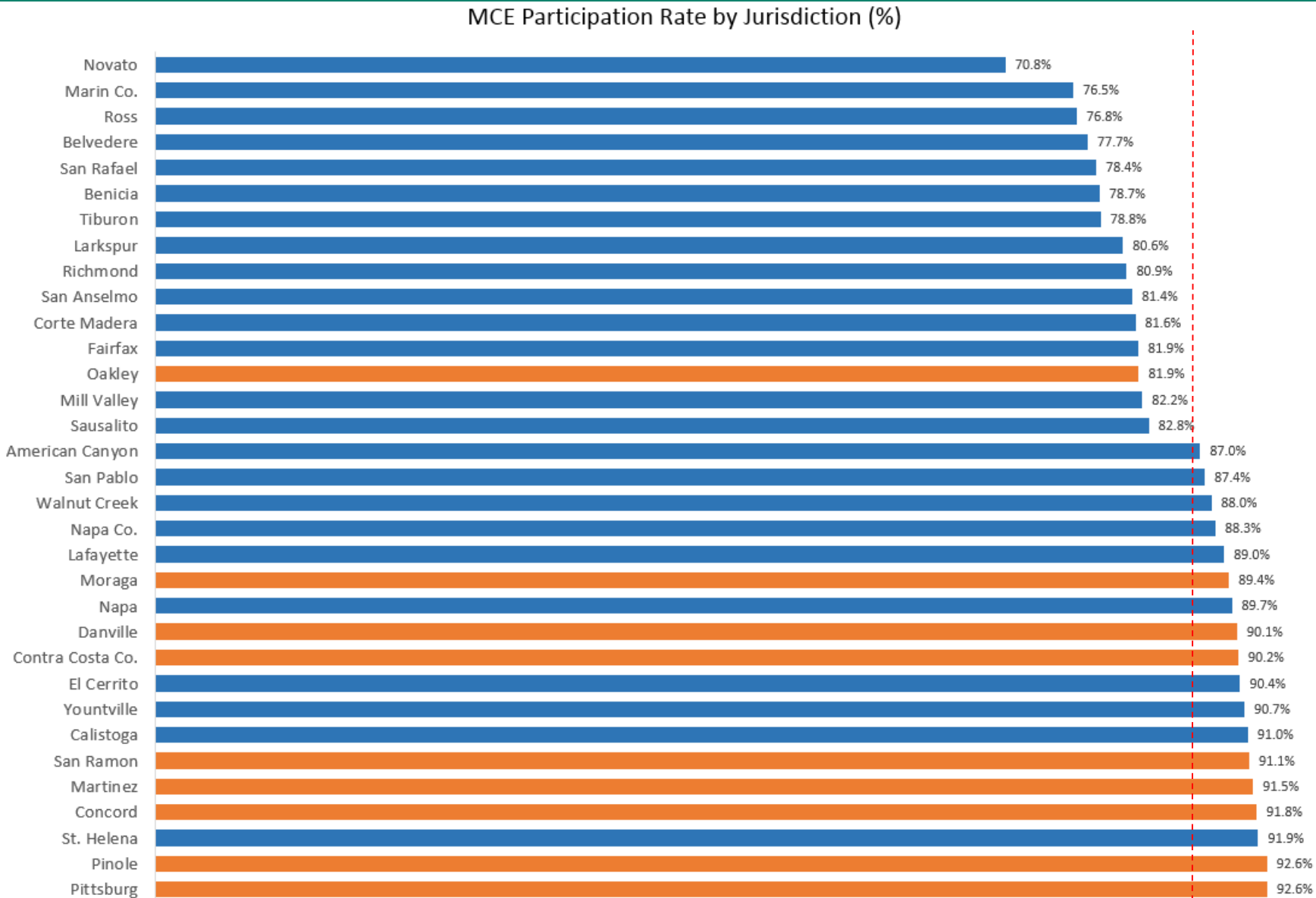
2019 ESTIMATED RESOURCE MIX²



Pop Quiz

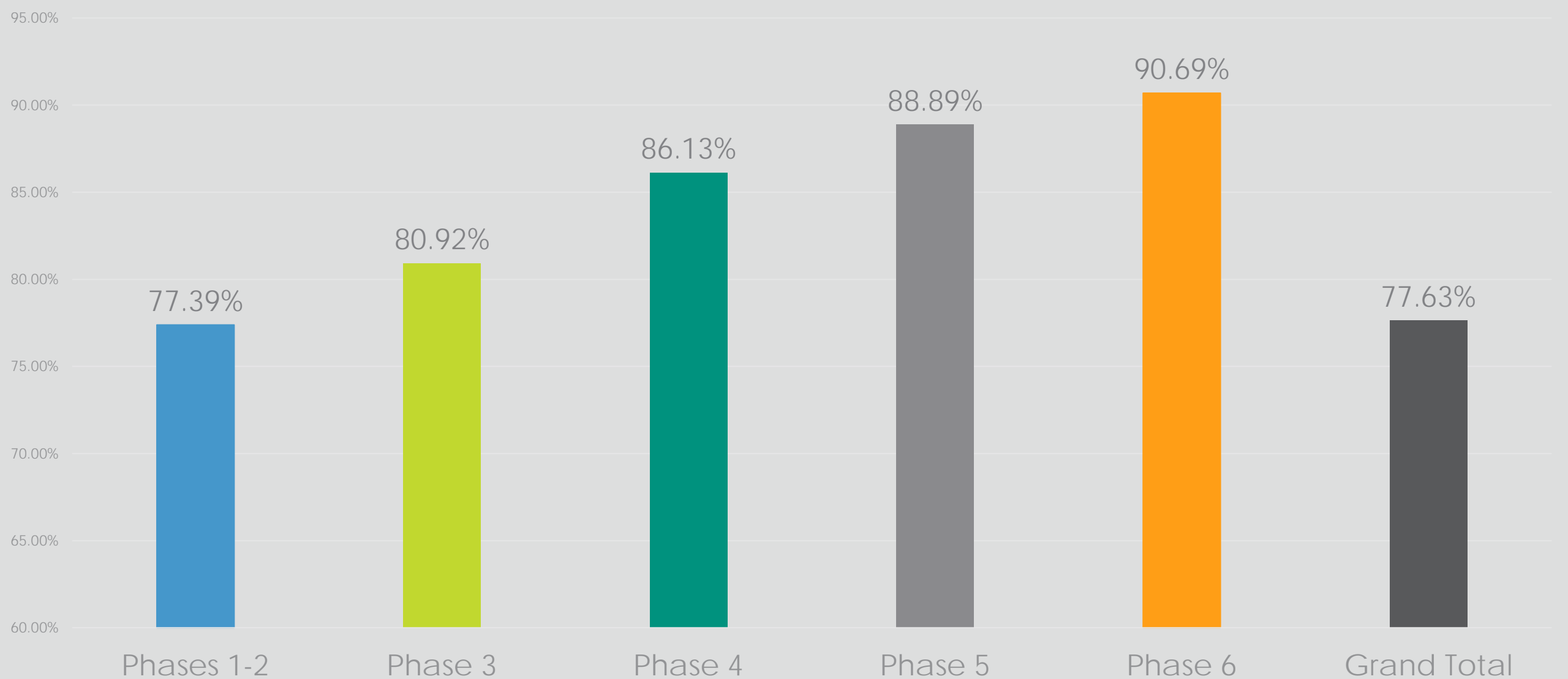
Integrated Resource Plan
Link: <https://bit.ly/2CE1J7C>

Enrollment Rates by Jurisdiction

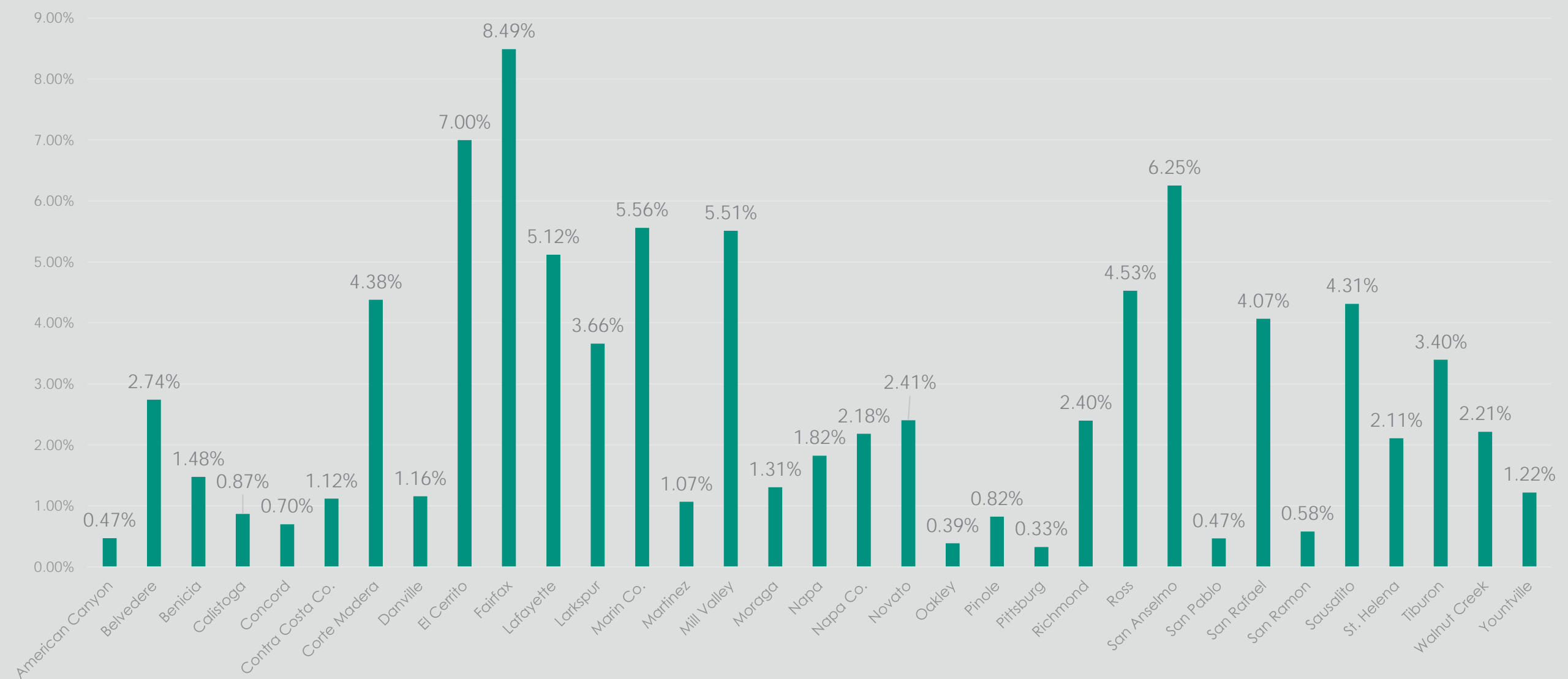


- The opt out rates for new jurisdictions compare favorably overall
- Most new jurisdictions are above the average participation rate

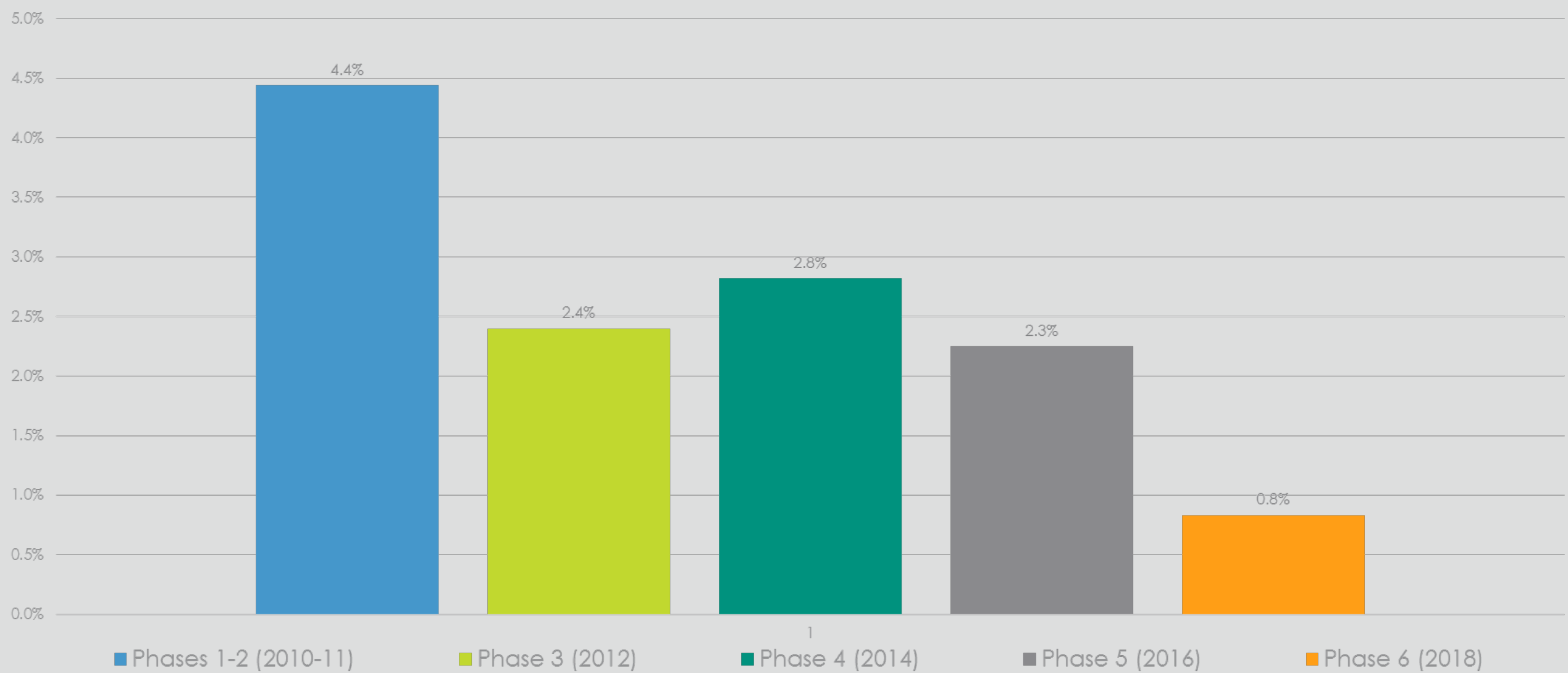
Existing
New



MCE participation rates by phase, 12/2018



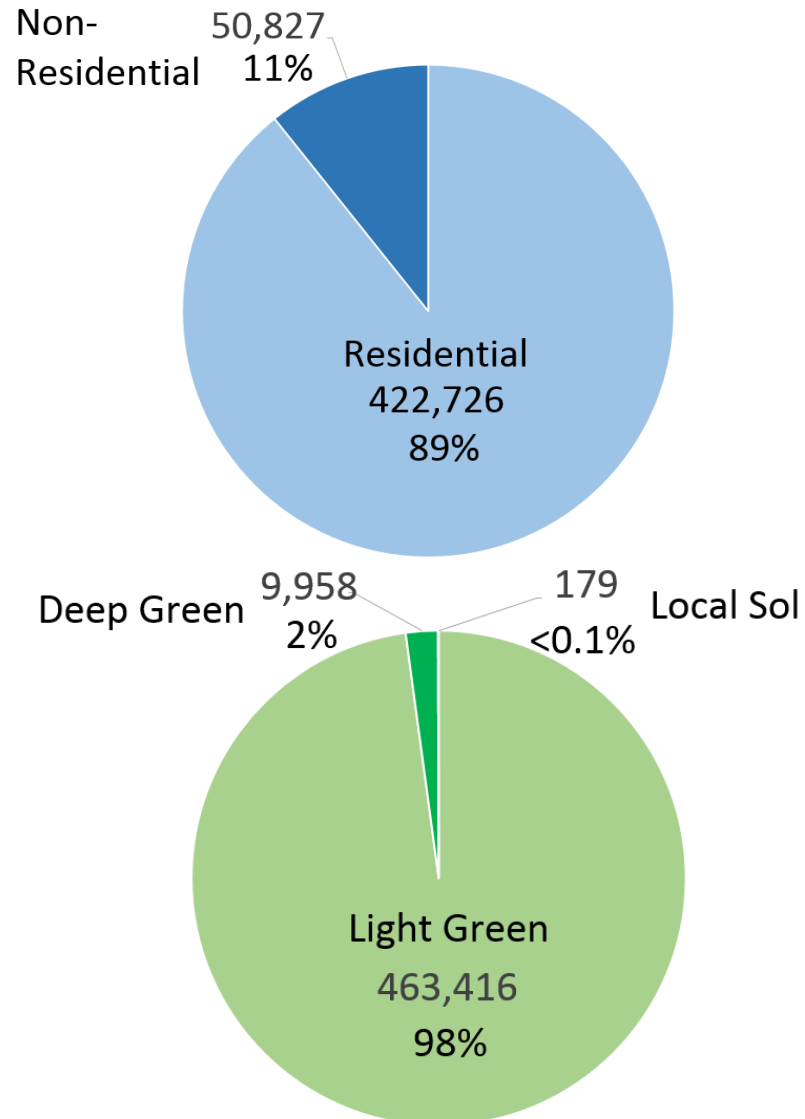
Community Deep Green (by accounts), 12/2018



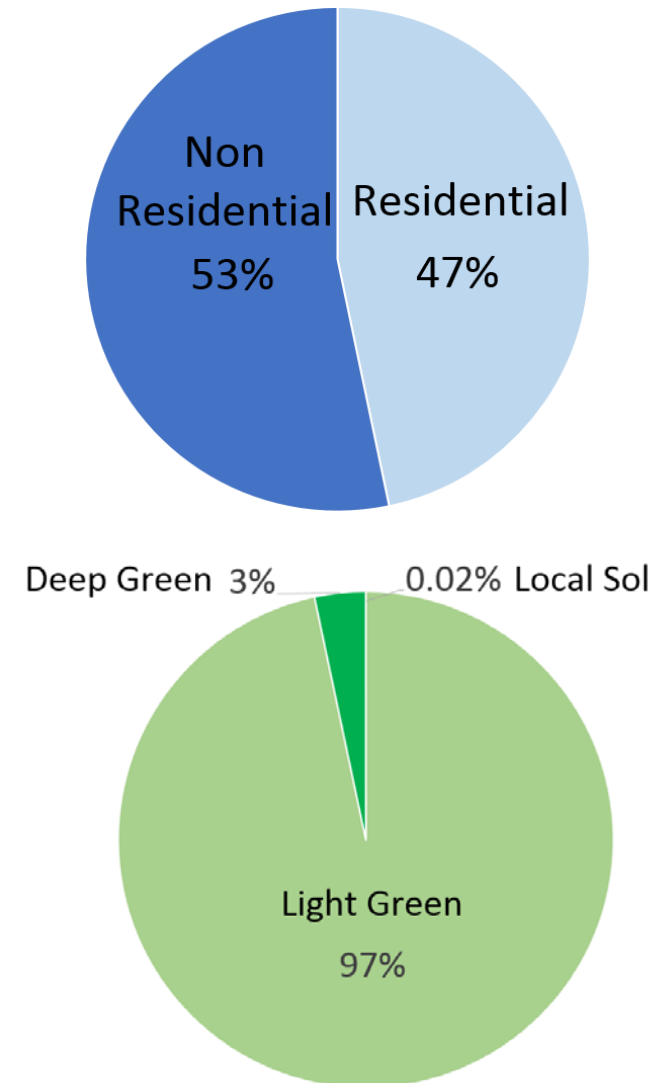
Deep Green by enrollment phase, 12/2018

MCE Customers at a Glance



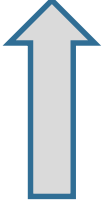

Accounts



Loads



2018-19 Accounts Dashboard

	<u>YoY</u>		<u>Dec 2018</u>
Accounts	86%		473,553
Deep Green	40%		9,958
NEM	155%		31,440
Local Sol	29%		179

MCEv⁺

CHARGING PROGRAM

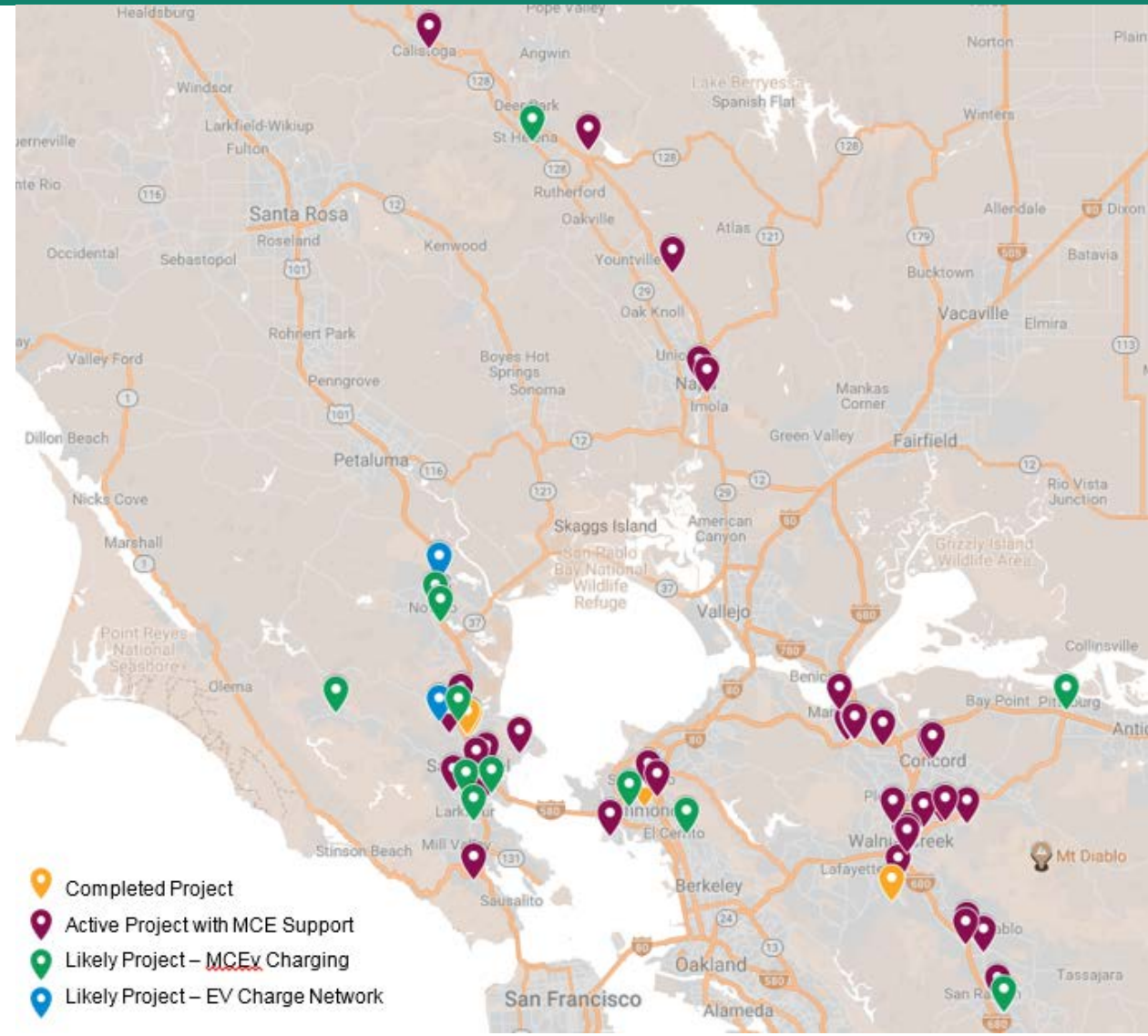
MCEv:

- 94% funds reserved (from 89% in Dec)
- Rebate funding reserved: \$760,443
- 600 ports supported and counting
- Every County government has a project
- Waitlist likely to start in January

Market update:

- 2016–17: EV sales increased **28%** in CA.
- 2017–18: EV sales increased by **312%** (50% due to Tesla Model 3).
- 1 million EVs sold in US, inc. 500k in CA

Fun Fact: In 1900, 38% of U.S. cars were battery-powered and only 22 % boasted internal combustion engines.



Putting the Pro in Procurement

New California Projects now online:

- In December, MCE's biggest project to date, Antelope Expansion II, came online. **105 MW of solar over 1,000 acres** in Lancaster; creating 288,000 labor hours (90% union).
- Great Valley Solar I, **100 MW solar** in Fresno County; creating 86,000 labor hours.
- Voyager Wind, **42 MW of wind** in Mojave County. Creating 428,000 labor hours (7.3% union).

Local Projects coming in 2019:

- Central Marin Sanitary Agency – Biogas; 750 kW



- Cooley Quarry II – 100 kW addition, solar
- San Rafael Airport II – 1 MW rooftop solar
- American Canyon – Three 1MW solar systems

Putting the Pro in Procurement

CPUC's Integrated Resource Plan ruling
(Order Instituting Rulemaking 16-02-007):

CCAs are procuring long term resources:

"Overall, the **CCAs plan the most long-term new resource purchases** to meet their expected load, while ESPs and IOUs expect additional short-term market purchases to fill out their portfolios." (page 7)

"In terms of new resources, the hybrid conforming portfolio includes **the majority of new resource buildout being driven by CCA load growth**. While the IOUs and ESPs aggregated together, propose to invest in approximately 1,000 MW of new resources by 2030, **CCAs in aggregate propose more than 10,000 MW.**" (page 8)



Link to the ruling:
<https://bit.ly/2R5OTnQ>

CCA: PUTTING RENEWABLE ENERGY ON THE MAP

Community Choice Aggregation (CCA) programs have contracted for more than 2,000 Megawatts (MW) of new clean generation capacity, largely through power purchase agreements with terms of 10 years or more, fueling renewable energy development, green jobs and economic growth throughout California.



EBCCE's Blog: Myth of the Month – CCAs Don't Sign Long-term Renewable Energy Contracts

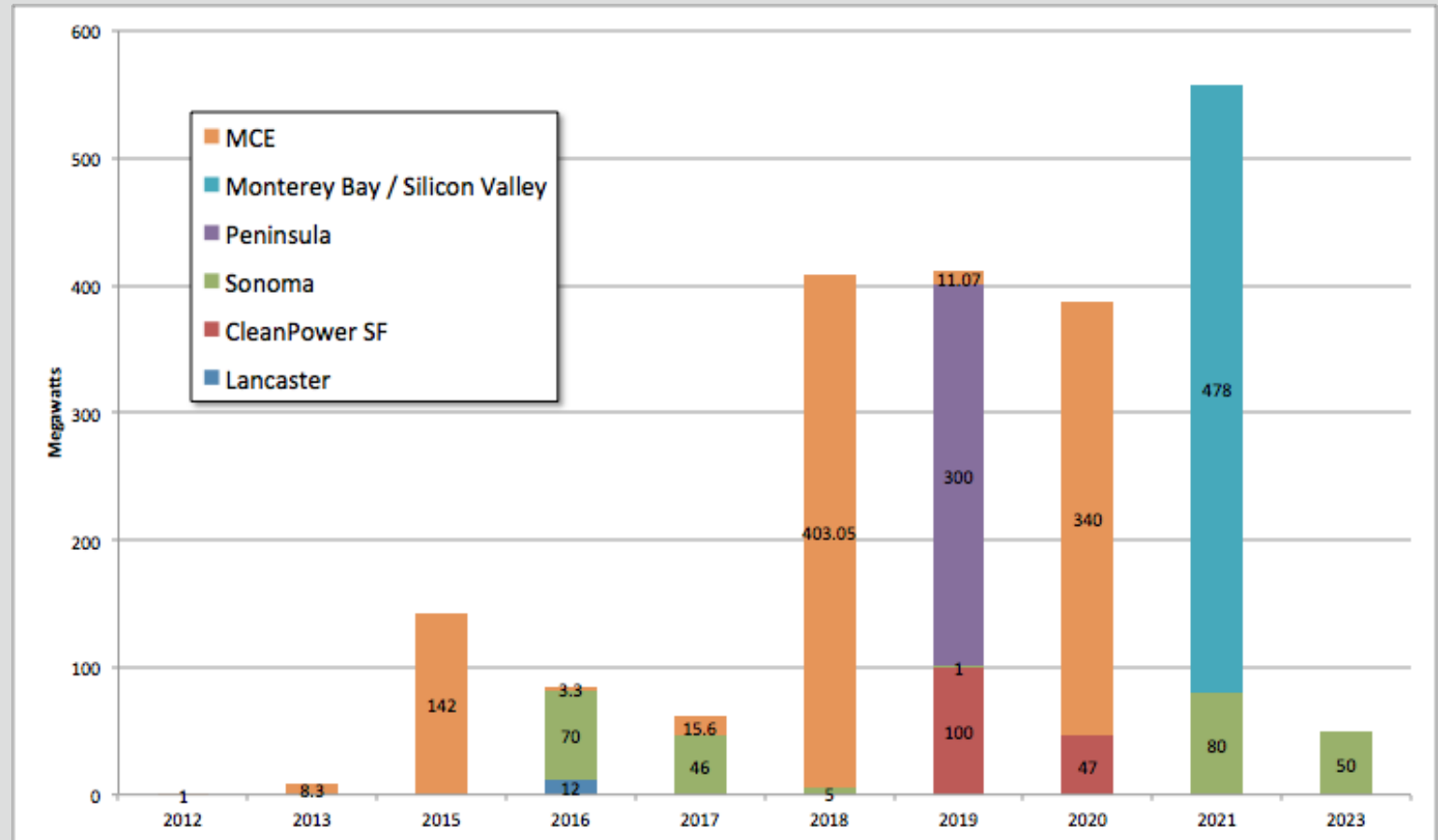
- CalCCA's [data](#) shows that 6 CCAs have signed long-term contracts for **over 2,000 MW** (or 2 GW) of new renewables. Of the 56 contracts tallied, 38 are for 20+ years. Only 3 are less than 10 years.
- In October, Monterey Bay Community Power and Silicon Valley Clean Energy jointly approved 278 MW of solar and 340 megawatt hours (MWh) of battery storage in Kern and Kings Counties. **That is the largest solar + storage procurement to date in California.** That same month, Peninsula Clean Energy broke ground on 200 MW of solar with a 25 year contract.
- The contracts signed to date support **1,360 MW of new solar, 741 MW of new wind, and 12 MW of new biogas**. Interestingly, all but one of the projects are in California, belying the related myth that CCAs are supporting “out of state” power suppliers. (See map.)

Link:
<https://bit.ly/2R6HAfm>

From EBCCE's "Myth of the Month"

MCE has signed the most contracts, at just over **900 MW**, [including] 36 contracts from 3 - 25 years, from 60 kW -160 MW. **Over 400 MW** of their new renewables came online this year.

Link: <https://bit.ly/2R6HAfm>

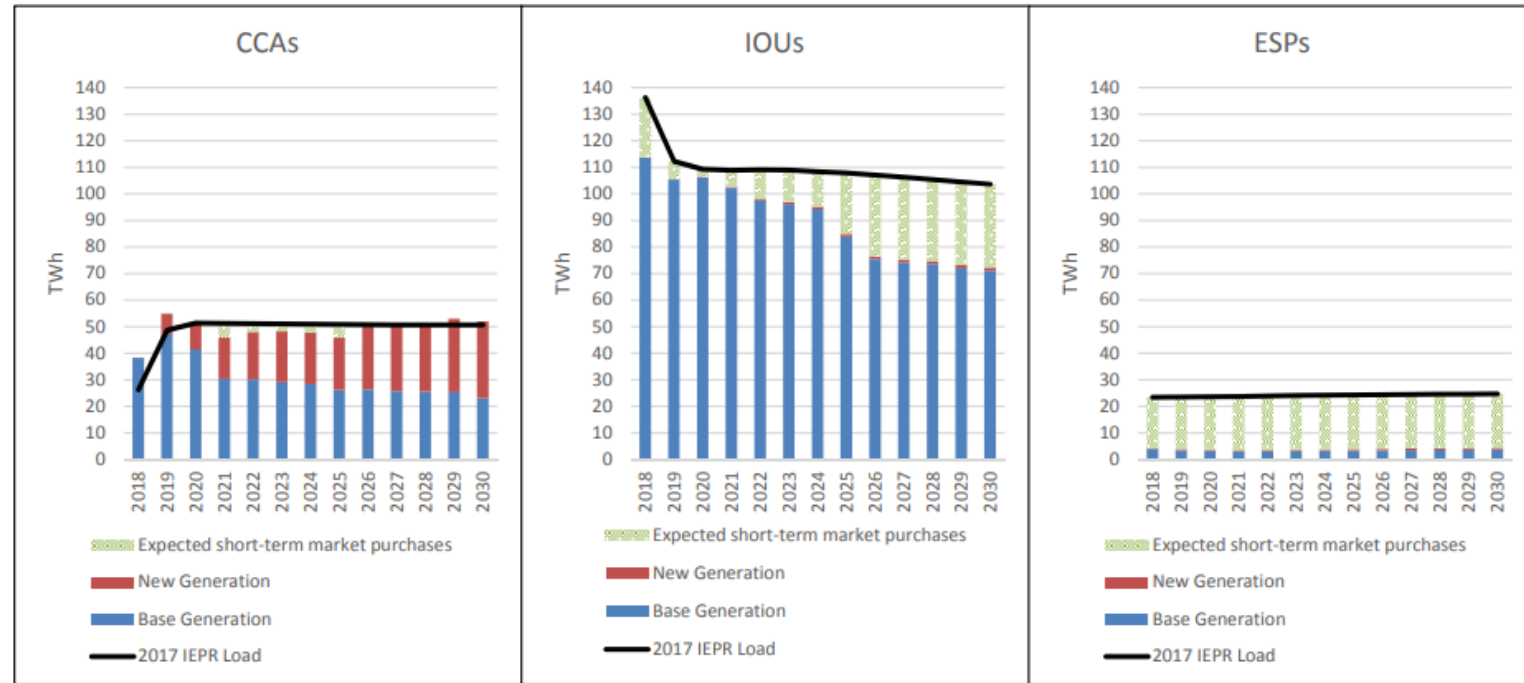


Timeline of operation dates for CCA-supported new renewables

Proposed Preferred System Portfolio for IRP 2017-18: System Analysis and Production Cost Modeling Results

January 11, 2019

Total planned baseline and new energy purchases, TWh, by LSE type



LSEs commit to different levels of energy purchases over time

- IOU procurement intentionally meets a declining portion of total load over time to minimize risk, which may reflect declining load share and hedging practices in the IOUs' bundled procurement plans
- CCAs plan to purchase the majority of new resources and provide portfolios where resources match load through 2030
- ESPs typically purchase resources on a much shorter time frame than the IRP planning horizon

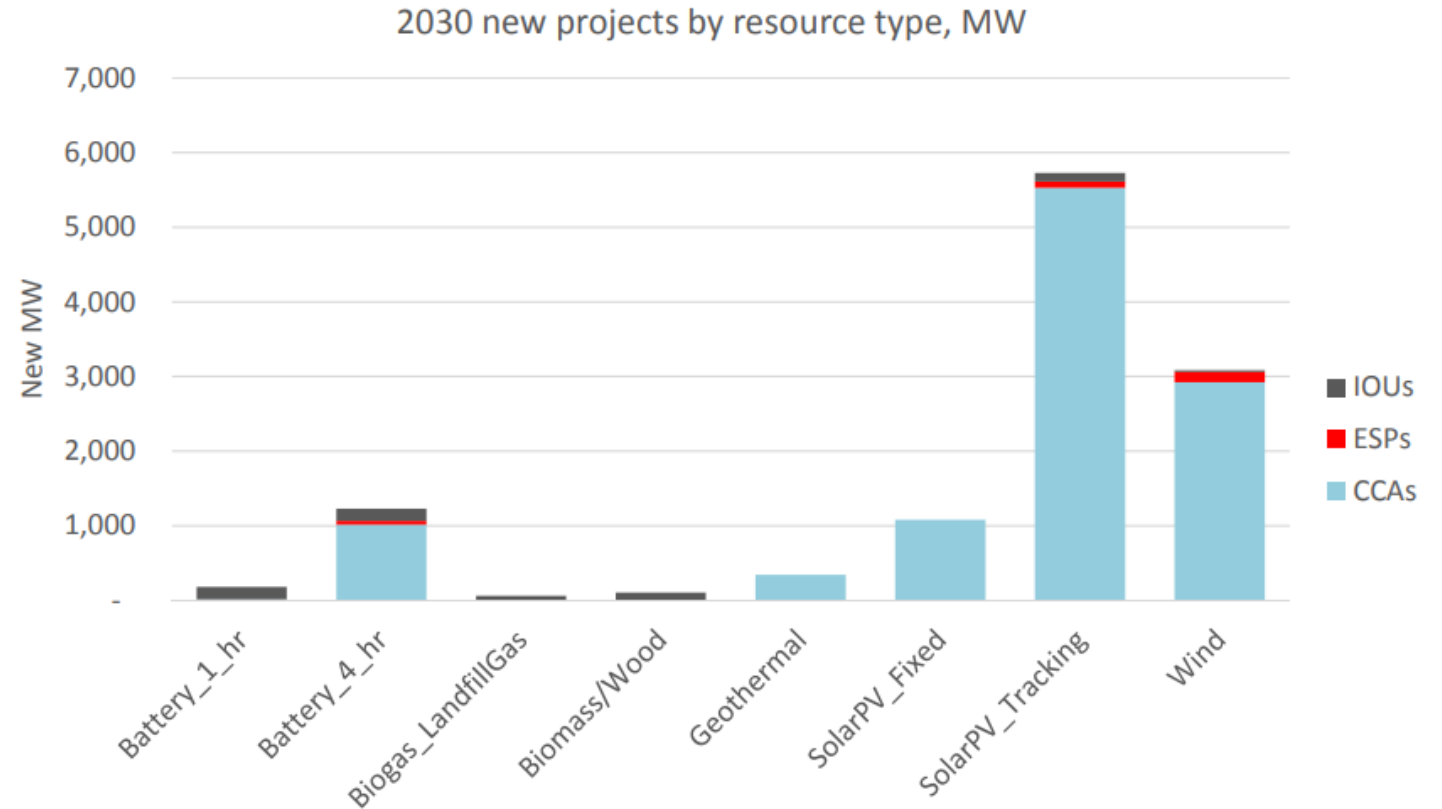
The faded green area indicates the gap between planned energy purchases from LSE plans and IEPR load. The gap is expected to be filled with short-term market purchases and does not imply any procurement or RA deficiencies.

Link to the presentation:
<https://bit.ly/2FQH9UF>

Proposed Preferred System Portfolio for IRP 2017-18: System Analysis and Production Cost Modeling Results

January 11, 2019

The majority of proposed new* capacity is solar, wind, and 4-hour batteries



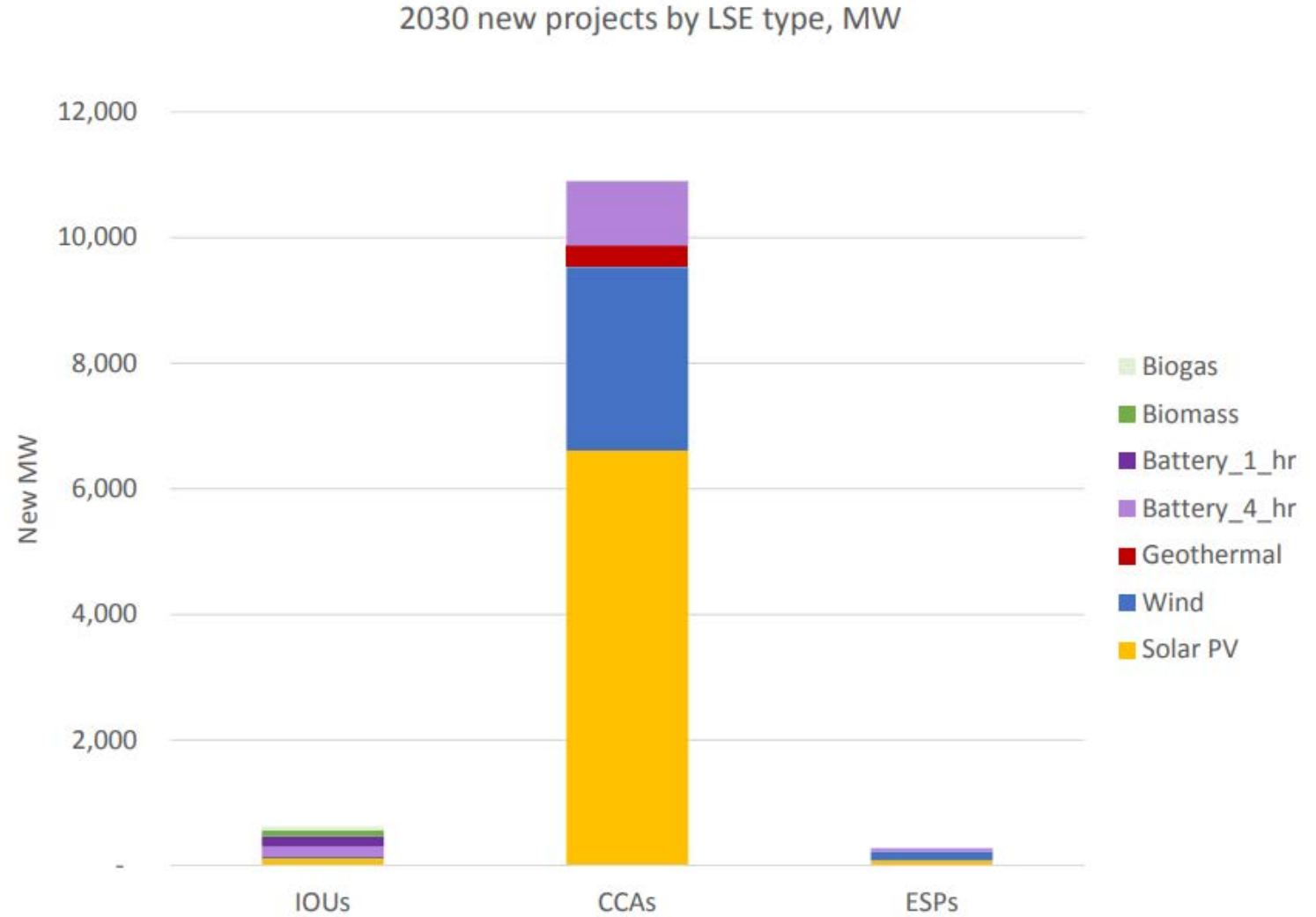
*New resources refers to resources that do not yet exist and are not yet contracted or planned as of 2018, but are included in LSE IRP portfolios and could be built. The CPUC has not formally reviewed or approved the procurement of these resources.

Link to the presentation:
<https://bit.ly/2FQH9UF>

Proposed Preferred System Portfolio for IRP 2017-18: System Analysis and Production Cost Modeling Results

January 11, 2019

CCAs are proposing the bulk of new resource buildout



Link to the presentation:
<https://bit.ly/2FQH9UF>

PG&E Bankruptcy

PG&E is a valued partner and MCE is monitoring the situation. **We have been assured by PG&E that they are not going out of business, and they do not expect any impact to natural gas or electric service to customers as a result of the Chapter 11 process.** You can contact PG&E with any questions you may have and you can find more details on their website at www.pge.com/reorganization.



FOR IMMEDIATE RELEASE: January 29, 2019

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CalCCA Response to PG&E Filing for Bankruptcy Protection

Concord, Calif. – Today, Pacific Gas & Electric (PG&E) filed for protection under Chapter 11 of the U.S. Bankruptcy Code. The California Community Choice Association (CalCCA) has issued the following response:

Community Choice Aggregators (CCAs) are continuing to work closely with PG&E in a coordinated manner to address any potential impacts of the bankruptcy filing on CCA programs.

We support PG&E's first-day motion seeking the Bankruptcy Court's approval to continue passing through CCA revenues in the ordinary course of business. We agree with PG&E that "the normal and uninterrupted remittance" of customer payments to CCAs and other public-purpose programs is of the utmost importance.

We are optimistic that PG&E will continue to provide all billing and revenue remittance services to CCAs in a business-as-usual fashion. Some CCAs have contracts to buy energy products from PG&E. Since those energy contracts provide revenue to PG&E, we expect those to remain in place.

PCIA: Application of Rehearing (AfR)

Among a handful of others, MCE filed an Application of Rehearing of the PCIA APD with SCP and PCE (18.10.019). This focuses on **IOU portfolio mismanagement, poor forecasting, and inappropriate cost allocation to CCA customers**. Our goal is to underscore the Commission's legal duty to correct errors and past cost-shifts, or explicitly allow Phase 2 to remedy cost-shifts due to the IOUs' past conduct.

Purpose of AfRs: Identify errors of law in the PCIA decision and give the CPUC an opportunity to re-engage and correct the alleged errors. The AfR preserved the right to appeal these issues in state court by "**exhausting administrative remedies**." Since the Commission has not acted on any AfRs to date, the AfRs are now deemed denied, meaning that **CalCCA and/or MCE can now file an appeal in state court**. We are actively assessing strategy, whether to file, and how to frame the issues we want to raise in the appeal.

Interested in the PCIA Phase II working groups? We're still waiting on a scoping memo that lays out the scope of the proceeding and the schedule.

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Review,
Revise, and Consider Alternatives to the
Power Charge Indifference Adjustment.

Rulemaking 17-06-026
(Filed June 29, 2017)

APPLICATION FOR REHEARING OF PENINSULA CLEAN ENERGY AUTHORITY, MARIN CLEAN ENERGY, AND SONOMA CLEAN POWER AUTHORITY OF DECISION 18-10-019

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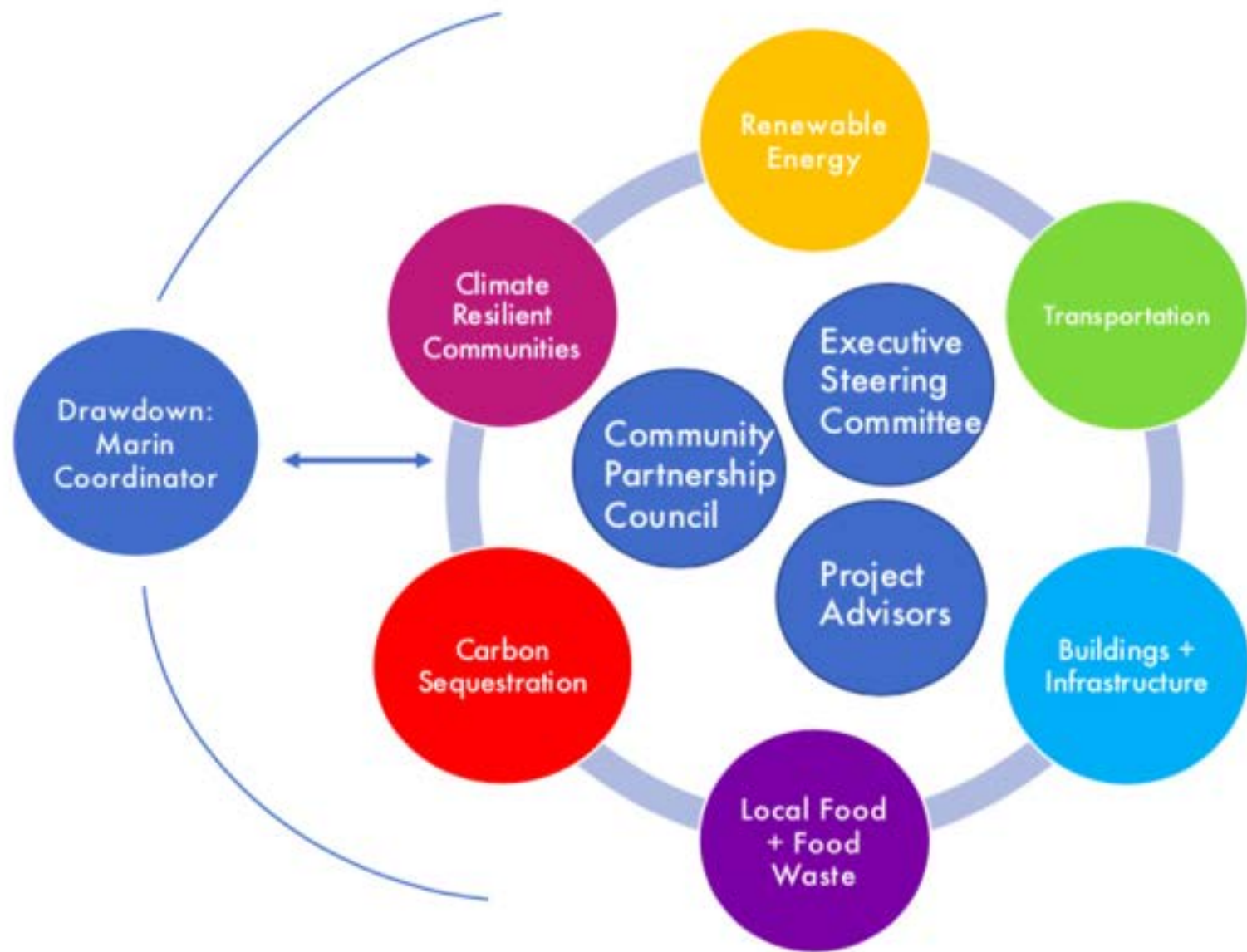
November 19, 2018



Drawdown: Marin

Local solutions to the global climate
challenge.

What is Drawdown: Marin?



Vision: Marin reverses its impact on the climate, sequestering more greenhouse gases than we emit as we transition to a thriving, resilient, and equitable future.

Mission: We collaborate with our entire community to create and implement bold climate solutions.

- The County is an effective “backbone” of the Drawdown effort
- We develop a shared vision by setting an ambitious greenhouse gas (GHG) reduction goal, increase social resilience, and advancing equity
- We all work together to identify aligned activities and support one another
- We develop and prioritize solutions in 6 focus areas that dramatically reduce GHG emissions
- We mobilize funding so we can implement solutions
- We use shared metrics to measure progress toward our goals

Key Outcomes

November 2018 - August
2019

- SCs meet
- Community Partnership Council (CPC) kick-off + review of Community Engagement Brief
- Executive Steering Committee kick-off + SC presentations
- Drawdown Advisors invited to participate

August - September 2019

- Drawdown Coordinator will synthesize SC findings and create an Action Plan + *updated* Community Engagement Brief

October - November 2019

- Playbook (summary of SC outcomes)
Final Community Engagement Brief (present to CPC)

Want to get
involved?

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Justin Kudo

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Changes to 2019 PG&E Rates

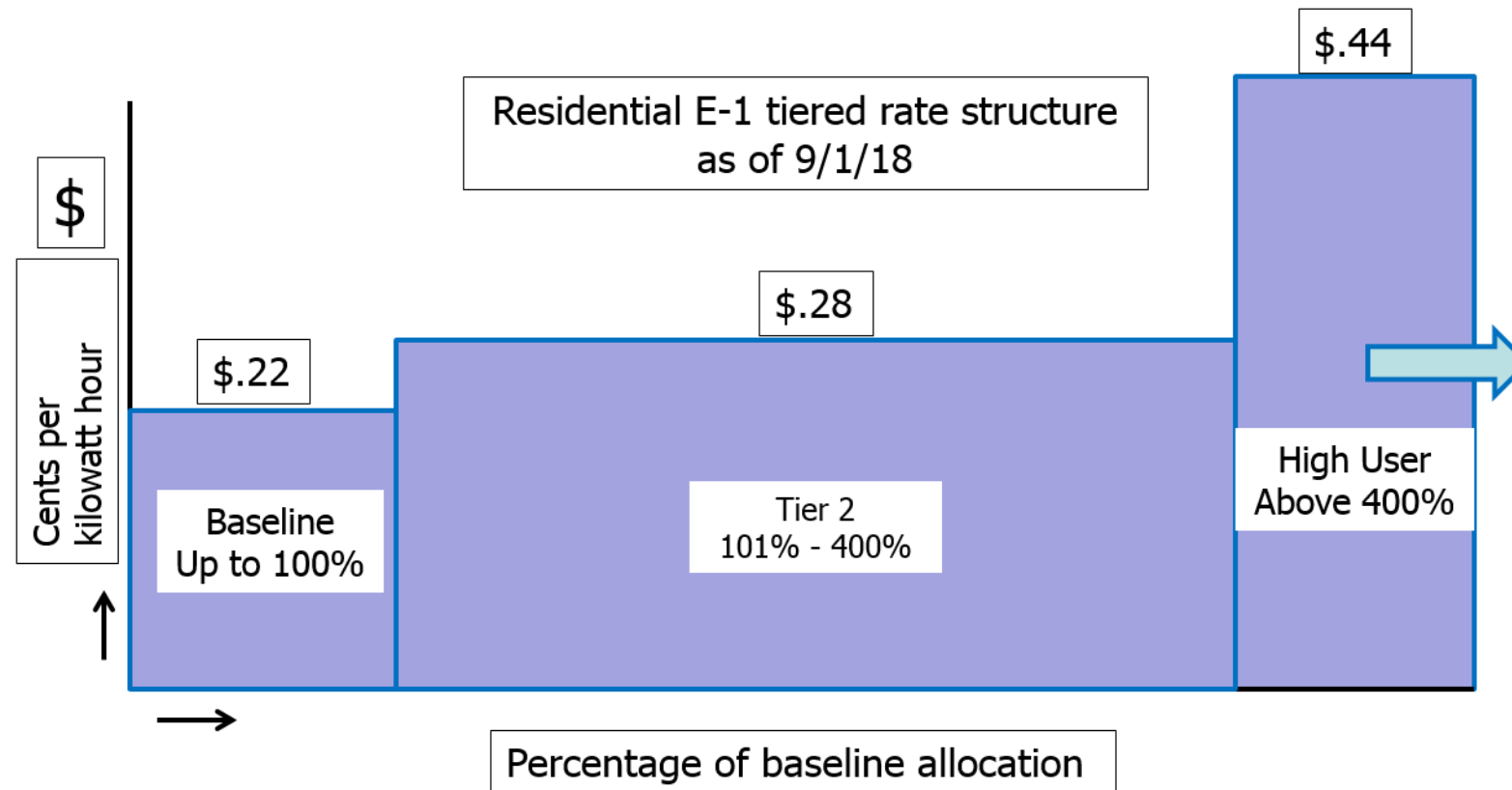
Time-of-Use Transitions, Rate Changes,
PCIA and more

Moving to TOU (time-of-use)

- What is TOU?
- Why are we moving?
- How are we moving?
- When are we moving?

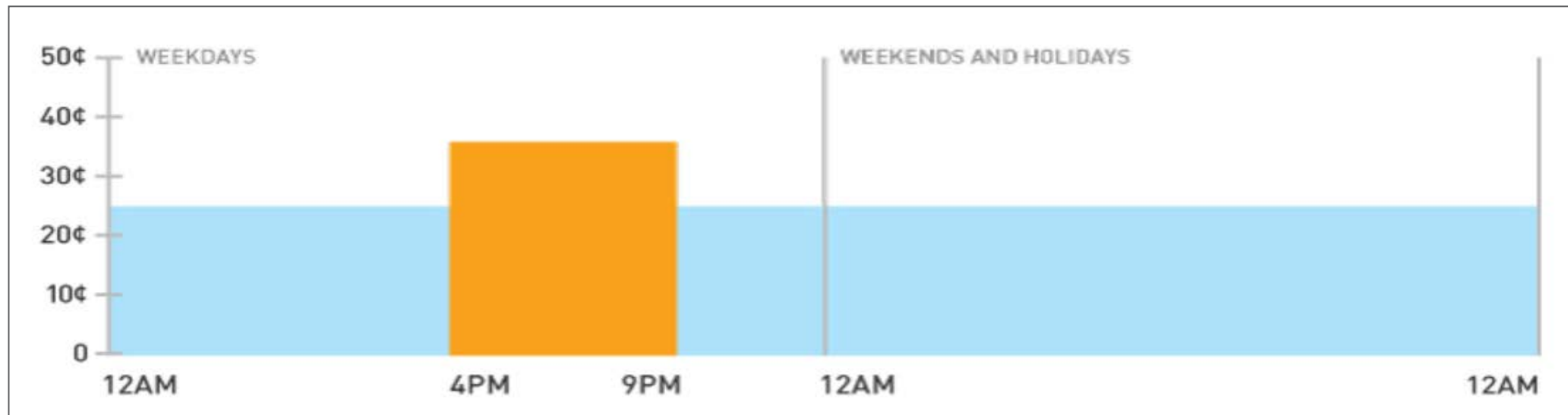
Basic Rate Types

Tiered rate: The more you use, the more you pay.
Only residential accounts.



Basic Rate Types

Time-of Use (TOU): Prices vary depending on the time of day and day of week.



Different Peak Periods for different rates.

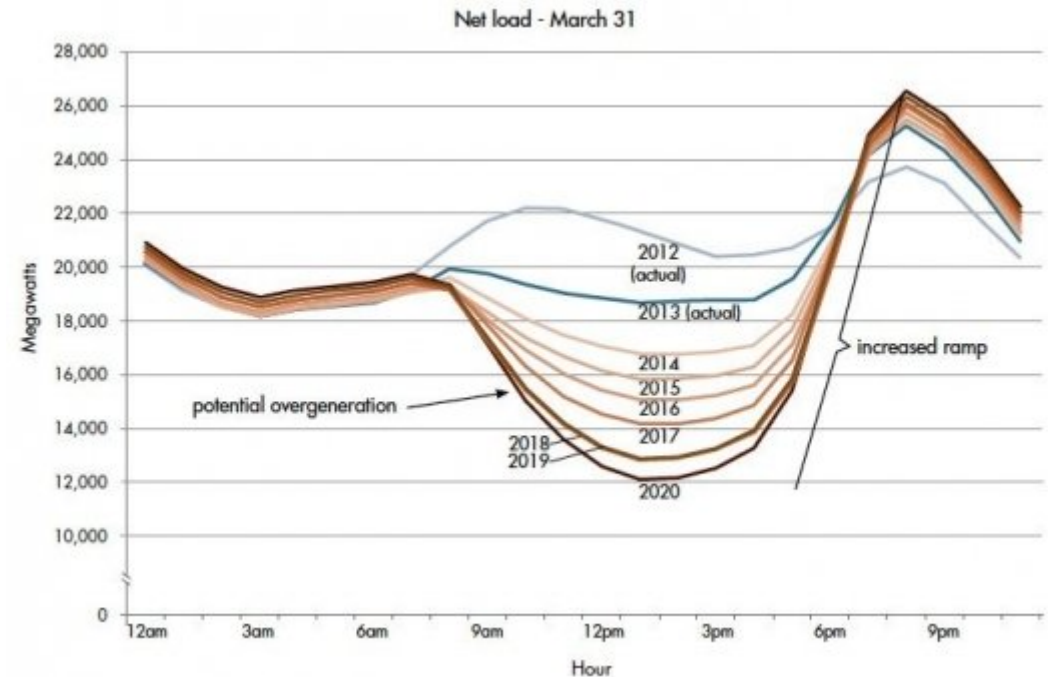
Why move to TOU?

TOU rates encourage customers to better match their usage to resource availability on the grid.

Better resource utilization = more renewables, less fossil fuel reliance.

And lower costs for all of us!

Old TOU encouraged load shifting away from 12-6p – the opposite of modern needs.



What changes with TOU?

Current Basic Residential	Time of Use
Same price for electricity regardless of time	Price varies based on rate, usually 4p-9p peak
Tiered rate, high consumers assessed large surcharge	"Tiered rate" via baseline credit, no surcharge
Minor summer/winter seasonal differences	Higher rates for four-month summer period, lower rates the rest of the year
NEM 2.0 customers prohibited	Available to NEM 2.0 customers

How and when does TOU transition?

- 3% of MCE residential customers were preselected and moved to the new rate in March 2018.
- Over 80% transitioned to the new rate. Less than 2% of those have dropped out.
- Transition customers receive Bill Protection for a year.
 - Customer is given the better of their old and new rate.
 - If TOU is more than old rate, you receive a refund for the difference.
 - If TOU is less than the told rate, you pocket the savings.
 - After a year, up to customer to decide to stay.
- Medical Baseline and CARE customers in hot climate areas (East Contra Costa) are exempt.
- Parties considering exempting NEM customers as well.
- General transition is scheduled for April 2021.

What about businesses?

- Commercial customers are already on TOU by default, but will be migrating from the 12p-6p peak to 4p-9p
- Scheduled to be optional beginning October 2019
- Scheduled to be mandatory beginning October 2020
- No bill protection for businesses!

PG&E 2019 Rate Change

When is it happening?

What will it look like?

When is PG&E's 2019 Rate Change?

- It should have happened January 1st
- Decisions have delayed it until at least March 1st; possibly later now
- Delay isn't a bad thing and may help CCAs
- Any analysis of previous PG&E filings to-date may not hold true

What will change?

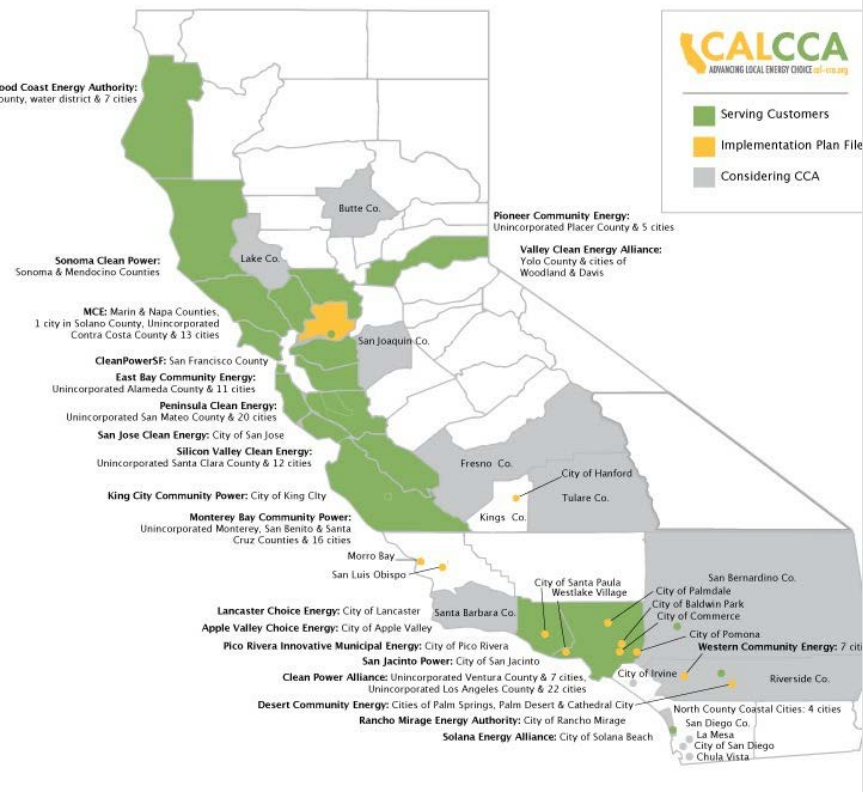
- PG&E's generation rates will change, probably downward (not clear)
- The PCIA may go up (also unclear)
- The PCIA will be re-allocated. Residential customers may actually see a lower PCIA. Commercial customers will see their PCIA increase.
- MCE will begin rate-setting after we review PG&E rates, and evaluate if changes are appropriate.

Fin

MCE General Updates

MCE [Job Announcements](#)

- **Public Affairs:**
 - Marketing Interns
 - Event Interns
- **Internal Operations:**
 - Manager of Human Resources, Diversity and Inclusion
- **Power Resources / Procurement:**
 - Power Supply Contracts Manager I or II
- **Policy (Legislative & Regulatory):**
 - Policy Analyst II or Senior Policy Analyst
- RFQ for Heat Pump Participating Contractors
- RFQ for Residential Direct Install Program Services
- RFQ for Industrial and Agricultural Energy Efficiency Program Services



CalCCA 2018 update

Expected 2019 rollout:

No new CCAs will launch in 2019 due to Reso 4907. However, there will still be significant enrollment activity as CleanPowerSF, Clean Power Alliance, & San Jose Clean Energy continue rolling out to 1.5 million+ customers.

Expected 2020 launch:

Western Community Energy; the cities of Baldwin Park; Commerce; Hanford; Pomona; Rialto; and Santa Paula.

Expected 2020 growth:

Monterey Bay Community Power plans to initiate service in Morro Bay and San Luis Obispo. MCE plans to begin serving Solano County. Desert Community Energy plans to launch.

For CCA specific updates, visit:
<http://cal-cca.org>