CALCCA
ADVANCING LOCAL ENERGY CHOICE

California Community Choice Association
Q2 2018 Update

CCA Grows Up

The second quarter of 2018 was an especially prolific one for community choice aggregation in California as new programs in Alameda and Yolo Counties and the Cities of Rancho Mirage, San Jacinto and Solana Beach went live and began serving customers. With the addition of San Jose Clean Energy, set to launch service in September, there will be a total of 19 operational CCAs in the state serving a projected 2.5 million accounts in 2018.

CCA has come a long way since Marin Clean Energy (now MCE) initiated service in Marin County in 2010, becoming the first aggregator in California and laying the groundwork for future CCAs to build upon. But even with the phenomenal growth of CCA, the commitment to core values – such as reducing greenhouse gas emissions, providing clean energy at affordable rates and investing in programs that benefit both communities and the state – remains steadfast.

As CCA continues to advance and mature, aggregators are proving adept at driving innovation and embracing partnerships, providing for even greater impacts as you'll see in the "Quarter Notes" section below. CCAs are looking forward to working together with a broad range of stakeholders and interests to reach shared goals. Together we can achieve so much more.

Beth Vaughan
Executive Director
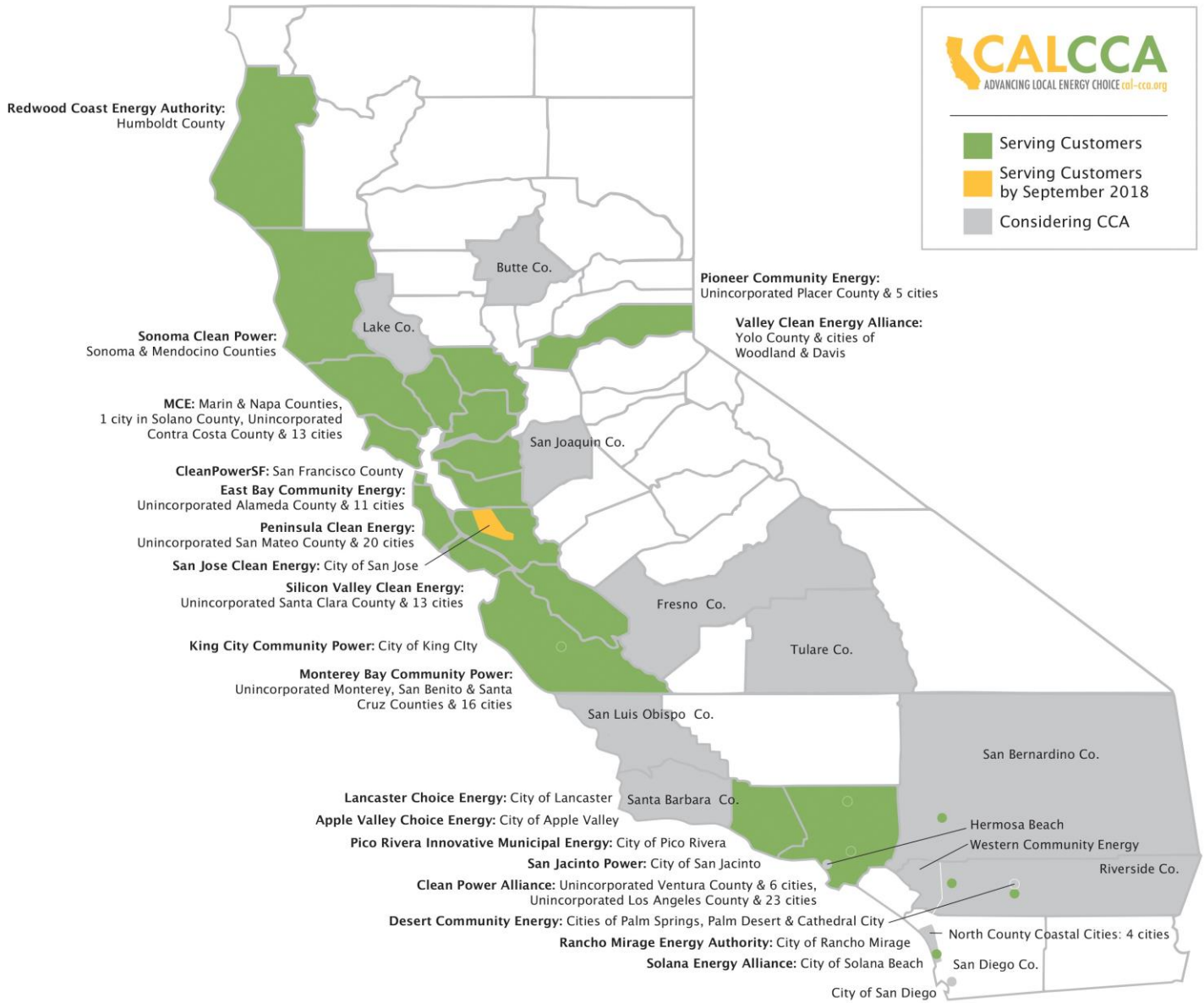CalCCA

Power in Numbers

- Number of CCAs currently serving customers in California: 18
- Number of customer accounts CCAs will serve in 2018: 2.5 million
- On-bill savings for CCA customers in 2018: $90.2 million
- Minimum RPS CCAs will achieve, on average, in 2018: 42 percent

Note: Figures based on projections provided by CCAs

CalCCA Annual Meeting

CalCCA's Annual Meeting is taking place September 5-6 in Pacific Grove. This year's theme is "The Power of Partnerships." The event is open to all CalCCA Operational and Affiliate Members, Partners, local government and non-profit CCA stakeholders, and decision makers. Registration will be closing soon and accommodations at the event site are filling up. Registration form, sponsorship information and agenda are available here.

Community Choice Aggregation in California

Redwood Coast Energy Authority:
Humboldt County

Sonoma Clean Power:
Sonoma & Mendocino Counties

MCE: Marin & Napa Counties,
1 city in Solano County, Unincorporated
Contra Costa County & 13 cities

CleanPowerSF: San Francisco County
East Bay Community Energy:
Unincorporated Alameda County & 11 cities

Peninsula Clean Energy:
Unincorporated San Mateo County & 20 cities

San Jose Clean Energy: City of San Jose

Silicon Valley Clean Energy:
Unincorporated Santa Clara County & 13 cities

King City Community Power: City of King City

Monterey Bay Community Power:
Unincorporated Monterey, San Benito & Santa
Cruz Counties & 16 cities

Lancaster Choice Energy: City of Lancaster
Apple Valley Choice Energy: City of Apple Valley
Pico Rivera Innovative Municipal Energy: City of Pico Rivera
San Jacinto Power: City of San Jacinto
Clean Power Alliance: Unincorporated Ventura County & 6 cities,
Unincorporated Los Angeles County & 23 cities
Desert Community Energy: Cities of Palm Springs, Palm Desert & Cathedral City
Rancho Mirage Energy Authority: City of Rancho Mirage
Solana Energy Alliance: City of Solana Beach

Pioneer Community Energy:
Unincorporated Placer County & 5 cities

Valley Clean Energy Alliance:
Yolo County & cities of
Woodland & Davis

Butte Co.

Lake Co.

San Joaquin Co.

Fresno Co.

Tulare Co.

San Luis Obispo Co.

Santa Barbara Co.

San Bernardino Co.

Hermosa Beach
Western Community Energy

Riverside Co.

North County Coastal Cities: 4 cities

San Diego Co.

City of San Diego

CALCCA
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- Serving Customers
- Serving Customers by September 2018
- Considering CCA

Quarter Notes
Updates from California's CCAs

Apple Valley Choice Energy

Launched in 2017, AVCE serves ~28,000 customers in the Town of Apple Valley in San Bernardino County. AVCE offers "CoreChoice" 35% renewables and "MoreChoice" 50% renewables service options. The AVCE program provides for on-bill savings for residents and businesses and serves as an economic development incentive tool. Over 90% of eligible customers in Apple Valley are participating in the program.

CleanPowerSF

Launched in 2016, CleanPowerSF provides CCA service in the City and County of San Francisco. CleanPowerSF is welcoming 20,000 commercial accounts into the program in July 2018, bringing the total number of accounts served to more than 100,000. The city plans to complete citywide enrollment by July 2019 and expects to serve over 350,000 accounts and 600 megawatts peak load at full enrollment. The program offers a 43% renewables "Green" service, and a premium "SuperGreen" 100% renewables option.

New Long-Term Wind and Solar Contracts
CleanPowerSF has signed several multi-year contracts to build new wind and solar projects that will create more than 600 jobs and ensure a clean, safe and reliable renewable power supply for years to come. In June, CleanPowerSF signed two long-term agreements to purchase the renewable power created from a new 100-megawatt solar photovoltaic power plant to be built in Lancaster, California and a new 47-megawatt wind power plant in Mohave, California. Together, these projects will generate enough renewable energy to power over 130,000 average San Francisco households.

Citywide Enrollment and Engagement
CleanPowerSF is partnering with civic venues including the California Historical Society, San Francisco Bay Area Planning and Urban Research Association (SPUR), and San Francisco Green Film Festival to get the word out about California's clean energy movement. Over the next several months, CleanPowerSF will be conducting advertising campaigns, phone banking, event sponsorships, and informal education throughout San Francisco. Follow @cleanpowersf on Twitter to keep up to date.

Clean Power Alliance

Launched in 2018, CPA will serve 31 communities including Agoura Hills, Alhambra, Arcadia, Beverly Hills, Calabasas, Camarillo, Carson, Claremont, Culver City, Downey, Hawaiian Gardens, Hawthorne, Malibu, Manhattan Beach, Moorpark, Ojai, Oxnard, Paramount, Redondo Beach, Rolling Hills Estates, Santa Monica, Sierra Madre, Simi Valley, South Pasadena, Temple City, Thousand Oaks, West Hollywood, Whittier and unincorporated Los Angeles and Ventura Counties.

Service Expansion
Clean Power Alliance launched the second phase of service on June 25, and now serves over 34,000 municipal and commercial service accounts in unincorporated LA County, Rolling Hills Estates, and South Pasadena. CPA plans to initiate service to all other customers in its territory in 2019.

Community Advisory Committee
CPA is moving ahead with the creation of a 15-member Community Advisory Committee and is currently seeking interested community members from Los Angeles and Ventura Counties to serve on the committee, which is expected to launch this fall. You can apply online here.

Desert Community Energy

DCE includes the cities of Palm Springs, Cathedral City and Palm Desert in Riverside County and plans to offer "Desert Saver," a 35% renewables/50% carbon-free service, as well as "Carbon Free," a 35% renewables/100% carbon-free option.

East Bay Community Energy

Launched in June 2018, EBCE serves customers in Alameda County including in Albany, Berkeley, Dublin, Emeryville, Fremont, Hayward, Livermore, Oakland, Piedmont, San Leandro, Union City and the county's unincorporated areas. EBCE expects to serve ~550,000 accounts at the end of 2018.

Summer Developments at EBCE
Service began in June for municipal and commercial customers. Many jurisdictions have opted up their municipal

accounts to EBCE's 100% carbon-free service, "Brilliant 100," including the County, Albany, Berkeley, Dublin, Emeryville, Fremont, Hayward, Oakland, Piedmont, and San Leandro. EBCE also launched its Demand Response Pilot, calling its first alert days in June, and is finalizing a local development business plan, which provides a comprehensive framework for accelerating the building of clean energy assets within Alameda County. Under a request for proposals issued in June, EBCE is seeking to secure up to 1 million megawatt hours per year of renewable energy, with a final contract expected in December.

Residential Service Launch

EBCE service will start serving residential customers in November. Also in November, EBCE will offer a third service to all customers in addition to the two current products. The three options are "Bright Choice" (clean power at 1.5% discount), "Brilliant 100" (100% carbon-free power at the same cost as PG&E's default power supply) and "Renewable 100" (100% renewable energy for a penny per kilowatt-hour more than Brilliant 100).

King City Community Power

KCCP launched service in July 2018 to residential, commercial and municipal customers in King City, Monterey County. The City will use revenues generated by the program for four primary goals: reducing customer rates; no-cost solar projects for homes owned by low-income families; installation of new solar streetlights in neighborhoods with deficient lighting; and increased use of clean energy. Future projects may include construction of a local solar or wind power facility.

Lancaster Choice Energy

Launched in 2015, LCE serves ~50,000 customers in the City of Lancaster in north Los Angeles County. LCE offers "ClearChoice" 37% renewable and "SmartChoice" 100% renewable energy services. Approximately half of LCE's customers are eligible for low-income energy programs. As of June 1, LCE is proud to be 50% carbon-free. Lancaster is aiming to be the nation's first zero net energy city.

Energy Efficiency Program Plan Underway

LCE's three-year energy efficiency program is set to begin marketing and outreach in July, with a full program launch in September. The CPUC-approved program will provide $1.7 million in energy efficiency services to both residential and small commercial customers. Services include an Energy Advisor Program, providing home-audit surveys and recommendations for upgrades or applicable programs, and a Small Commercial Direct Install program, providing free on-site assessments and no- and low-cost energy efficiency retrofits to reduce demand and energy consumption. Lancaster has issued a proposal request for the Small Commercial program and contracts will be awarded in August.

Lancaster Participating in NREL Collaborative Research Program

Lancaster is part of a team led by the Center for Climate Protection that will explore the impact of advanced rate structures on distributed energy resources (DER) deployment. The U.S. Department of Energy's National Renewable Energy Laboratory selected the team to participate in the Solar Energy Innovation Network, a collaborative research effort that is developing new ways for solar energy to improve the affordability, reliability, and resiliency of the nation's electric grid. Lancaster will provide a unique perspective on integrating community priorities into the development of DER at sites on the grid that deliver multiple benefits which include revenue streams, local investment, and other grid services. LCE will participate in simulation testing and virtual piloting of the DER rate structure tool.

MCE

Launched in 2010, MCE serves ~470,000 customers in Marin County, Napa County, unincorporated Contra Costa County and the cities of Benicia, Concord, Danville, El Cerrito, Lafayette, Martinez, Moraga, Oakley, Pinole, Pittsburg, Richmond, San Pablo, San Ramon, and Walnut Creek. MCE offers "Light Green," currently 60% renewable, "Deep Green" 100% renewable energy and "Local Sol" 100% locally produced solar energy options.

MCE Energy Efficiency Business Plan Approved

The CPUC has approved MCE's energy efficiency business plan for 2018-2025, providing an average of $10.7 million per year over eight years to expand MCE's comprehensive energy efficiency offerings for large commercial customers, agricultural customers, and industrial customers for the first time. The approved plan also expands existing residential and small commercial customer programs to include workforce development. This is the most comprehensive set of energy efficiency offerings ever approved for a CCA in California.

Moody's Assigns Baa2 Issuer Rating to MCE

In May, MCE became the first CCA program to obtain an investment-grade credit rating, reflecting MCE's long-term financial strength.

Monterey Bay Community Power

MBCP offers service in Santa Cruz, Monterey, and San Benito Counties. Service to commercial customers launched in March 2018 and residential service is underway as of July. As of August 1, MBCP expects to serve ~278,000 customer accounts.

Giving Credits

MBCP offers a standard product, "MBchoice," which is 100% carbon-free, as well as "MBprime," which is 100% eligible renewables. Additionally, MBCP is providing a 3% generation credit to all customers and estimates it will re-invest over $3 million in customer programs by the end of 2018.

Local Renewable RFO

MBCP has issued a request for offers for the development of local renewable generation and energy storage projects located within MBCP's service territory. The RFO seeks terms of 5 to 20 years with an installed capacity of 1 to 3 megawatts. MBCP aims to procure a total of 20 megawatts through the RFO process.

Peninsula Clean Energy

Launched in 2016, PCE serves ~290,000 customers in San Mateo County. PCE offers "ECOplus" 50% renewables and "ECO100" 100% renewable energy service options.

Community Pilot Program

PCE has launched a new Community Pilot Program that will provide grants of up to $75,000 to organizations and individuals interested in renewable energy development and innovation, greenhouse gas emissions reduction, or energy programs to benefit local communities in San Mateo County. The grant application, due by August 3, asks qualified organizations and individuals to provide information including their expertise, objectives for the project, project cost, implementation plan and measurable benefits. PCE expects to announce the first award recipients in September.

Municipalities Going 100% Renewable

The County of San Mateo and 15 of 20 cities have enrolled in "ECO100" 100% renewable energy service. By choosing to power municipal operations with "ECO100," local cities, towns and the County of San Mateo will prevent an estimated 10,000 metric tons of greenhouse gases from entering the atmosphere each year, equal to taking more than 2,000 cars off the road.

Pico Rivera Innovative Municipal Energy

Launched in 2017, PRIME serves ~17,600 accounts in the City of Pico Rivera in Los Angeles County. The program offers "PRIME POWER" 50% renewables and "PRIME FUTURE" 100% renewable energy service options. Customers with solar panels

can join the "PRIME PARTNER" program and earn 100% more credit on their reimbursement for excess kilowatt-hours provided back to the grid.

Pioneer Community Energy

Pioneer launched in February 2018 and serves ~80,000 accounts in unincorporated Placer County and the cities of Auburn, Colfax, Loomis, Lincoln and Rocklin. Pioneer's residential E-1 rates provide for a 7.5% discount compared to Pacific Gas & Electric rates, while commercial rates allow for a 9% discount, on average. The lower rates have generated some re-enrollments, with customers that initially opted-out of Pioneer service returning to the CCA.

Pioneer Welcomes NEM Customers

Pioneer will begin enrolling net energy metering customers in September. A notice to all solar customers about the upcoming enrollment schedule and ability to opt-in early has generated a number of early enrollments. Pioneer's current overall participation rate is 92.5% of eligible customer accounts.

Rancho Mirage Energy Authority

RMEA began serving the City of Rancho Mirage in 2018 and serves ~14,900 accounts. "Base Choice," RMEA's default electricity service offering, is 50% carbon-free. It is comprised of 35% renewables and 15% hydroelectric.

RMEA's "Premium Renewable Choice" rate plan offers customers the option of opting-up to 100% renewable energy at an affordable price. The authority has a net energy metering program featuring a net surplus compensation rate of 6 cents per kilowatt-hour.

Redwood Coast Energy Authority

Launched in 2017, RCEA serves ~62,000 customers in Humboldt County, Eureka, Arcata, Fortuna, Ferndale, Blue Lake, Rio Dell, and Trinidad. RCEA offers "REpower" 40% renewable and "REpower+" 100% renewable energy service options.

Local Power Generation

RCEA is submitting a lease application to explore the potential of an offshore wind farm off the coast of Humboldt County. Due to high wind speeds, ideal port conditions, and minimal U.S. Navy restrictions, the region is now considered a prime focus for offshore wind energy development nationally and internationally. RCEA is leading the way with a consortium that includes Principle Power, EDPR Offshore North America, Anker Solutions, H.T. Harvey, and Herrera Environmental Consultants.

RCEA is also in the permitting phase with Schatz Energy Research Center/Humboldt State University and Pacific Gas & Electric to build a $9 million microgrid, featuring a 9-acre, 2.25-megawatt solar array and 8 megawatt-hours of energy storage at Humboldt County's regional airport. The project is expected to provide wholesale electricity to RCEA, as well as emergency resiliency and energy savings.

Electric Vehicle Program

RCEA operates 14 public EV charging sites throughout Humboldt County. In Q2 2018, these stations delivered 1,012 charging sessions, abating 6,773 pounds of greenhouse gas emissions. There are approximately 908 EV drivers registered in the county. All RCEA's EV charging meters are opted up to 100% renewable energy.

Community Advisory Committee

RCEA's Community Advisory Committee meets quarterly to provide decision-making support and input to the RCEA Board of Directors. The CAC's July meeting gathered input regarding proposed CCA-funded customer programs to be considered by RCEA's board in August.

Energy Efficiency

RCEA provides extensive energy efficiency services for Humboldt County customers with a Peak Day Pricing Alternative, a Pilot Public Solar Program, low-income and multi-family services, and services aligned with the Proposition 39/Clean Energy Jobs Act for local educational agencies.

San Jacinto Power

Launched in 2018, SJP serves ~14,600 accounts in the City of San Jacinto in Riverside County. SJP offers "PrimePower" 35% renewables and "PureGreen" 100% renewables options. SJP's net energy metering program provides a net surplus compensation rate that is nearly double of that offered by the incumbent utility.

San Jose Clean Energy

SJCE will launch its service in September to municipal accounts, and to residential and commercial accounts in March 2019. Operated by the City of San Jose, SJCE will be the 19th community choice aggregator in California. A ribbon-cutting ceremony will take place during the city's Global Climate Action Summit affiliate event on Wednesday, September 12 at City Hall, located at 200 E. Santa Clara Street. The ceremony will tentatively take place from 4:30 p.m. to 5:30 p.m. SJCE's "GreenSource" service is 40% renewables and 60% hydropower (100% Carbon-Free), while the "TotalGreen" service is 100% renewables.

Silicon Valley Clean Energy

Launched in 2017, SVCE serves ~242,000 customers in Campbell, Cupertino, Gilroy, Los Altos, Los Altos Hills, Los Gatos, Milpitas, Monte Sereno, Morgan Hill, Mountain View, Saratoga, Sunnyvale, and unincorporated Santa Clara County. SVCP offers "GreenStart" 50% renewables and "GreenPrime" 100% renewable energy service.

200 MW Wind PPA Approved
The SVCE Board of Directors has approved a 200 megawatt, 15-year Power Purchase Agreement with Pattern Energy for wind power, beginning delivery in 2021. The PPA is a joint-procurement effort with Monterey Bay Community Power.

2030 Mandate Exceeded
SVCE exceeded the state mandate to procure 50% renewable energy by 2030, more than a decade ahead of schedule. In 2017, SVCE sourced clean power with an emissions rate of less than one pound of carbon dioxide per megawatt hour, a 99% decrease in emissions associated with electricity generation for the agency's service area. SVCE has voluntarily reported 2017 emissions data to The Climate Registry.

Electric Bike Building Competition
On May 5, SVCE hosted, "Bike to the Future," an electric bike building competition. Seven high school teams competed in a series of challenges with electric bikes they built to win scholarship prizes. Funded with $1,000 from SVCE, students had three months to build an e-bike, and demonstrate their science, technology, engineering and creative skills. The event showcased team presentations where students shared their design process, what they learned about clean energy and how it applies to alternative transportation. The winning teams won scholarship prizes of $5,000, $3,500, and $2,000 for first, second and third place, respectively.

Solana Energy Alliance

SEA initiated service in the City of Solana Beach in June 2018 and is serving ~7,300 accounts. It is the first CCA program in San Diego Gas & Electric's service territory. SEA offers a default energy supply, "SEA Choice," that is 50% renewable and 75% greenhouse gas-free, at rates that provide a discount compared to SDG&E's rates. "SEA Green" is a voluntary 100% renewable energy option that is available at a slightly higher, but very competitive rate.

Sonoma Clean Power

SCP serves just over 222,000 accounts in Sonoma and Mendocino counties and offers "CleanStart" 45% renewables/87% carbon-free electricity and "EverGreen" 100% local, renewable electricity.

2018 Drive EV Program
The 2018 Drive EV electric vehicle and charging incentive program will run between Aug. 1 and Nov. 16. The program will include seven dealerships and 11 vehicle models. Additional details will be available [here](#).

Charging Station Program
SCP is planning to shift from vehicle incentives to charging stations in 2019. Staff is exploring a possible program for each of SCP's participating cities, towns, and counties to install fast chargers (also known as "Level 3" or "DCFC" for direct current fast charge).

Workplace Charging Pilot Program
Staff has completed a preliminary assessment of five locations for a workplace charging pilot program. Detailed assessments with site visits are planned for the near future.

Annual NEM Payout
The annual cash out for SCP's "NetGreen" net energy metering customers is complete, bringing the aggregate total to over $2.1 million since 2015.

Valley Clean Energy

VCE started serving customers in June 2018 and serves the Cities of Davis and Woodland and unincorporated Yolo County. VCE delivers 42% renewables, 75% carbon-free energy as the standard option. VCE's "UltraGreen" product provides 100% renewables. VCE benefits the community it serves by providing local control, higher levels of renewable energy, customer choice, lower rates and investment in the local community.