Welcome & Webinar Tips

The webinar will begin in a few moments. The presentation will run for about 50 minutes followed by 5-10 minutes for Q&A as time allows.

You may submit a question at any time during the webinar. Should your question require an immediate answer, we will do our best to answer it right away. Some questions may be held until the Q&A period at the end.

Thank You For Joining Us!
Today’s Agenda

Welcome & Announcements

California and National CCA Expansion Update
Shawn Marshall, Executive Director, LEAN Energy US

The Structural Future of PG&E: Parsing Through the Options
Girish Balachandran, CEO, Silicon Valley Clean Energy

California Legislative Update - Threats and Opportunities
Sean MacNeil, Legislative Director, Cal-CCA

California Regulatory Update
Laura Fernandez, Attorney, Braun, Blaising, Smith, Wynne P.C.

Q&A and Wrap-up
Thank you 2019 Sponsors!

Expansion Champions

CALPINE ENERGY SOLUTIONS  SHELL  EDMS  DIRECT ENERGY  BARCLAYS

Sustaining Supporters

ENERGY UTILITY GROUP  MIG  THE ENERGY AUTHORITY  MONTEREY BAY COMMUNITY POWER  RIVER CITY BANK  CENTER FOR CLIMATE PROTECTION  TERRA VERDE ENERGY  KYOTO USA  CLIMATE ACTION CAMPAIGN
On Today’s Call...

- 1099 Energy Consultants LLC
- 174 Power Global
- 350 Bay Area
- 3Degrees
- ABB Enterprise Software
- AEP
- AGVP Advisory
- AIM Associates
- American Public Power Association
- Arevon DC
- Ascend Analytics
- Arranged Renewables
- Barclays
- Bayshore Consulting Group, Inc
- BayWa r.e. Solar Projects
- Berkshire Hathaway Energy
- Best Best & Krieger LLP
- Bluemercury Energy Solutions
- BNSF
- Bonneville Power Administration
- Borrego Solar
- Braun, Blasing, Smith, Wynne, P.C.
-Butte County
- CA Alliance for Community Energy
- CA Desert Coalition
- CA Million Energy Association
- Cal-CCA
- Calpine Energy Solutions
- Carbon Free Mountain View
- Center for Resource Solutions
- City of Lancaster
- City of Morgan Hill
- City of Oceanside
- City of San Jose
- City of Santa Monica
- City of Talent
- Clean Coalition
- Clean Power Alliance
- Clearens
- Climate Reality Project
- Coldwell Solar, Inc.
- Community Choice Partners
- Compass Energy Platform
- Connor Energy
- Constellation
- Correlate
- Cotton & Associates
- County of Contra Costa
- County of Coos
- County of Monterey
- County of San Mateo
- County of Santa Barbara
- County of Ventura
- CS Energy
- Cutting Edge Capital
- CWA District 9
- Defenders of Wildlife
- Desert Community Energy
- Dickinson Wright
- Direct Energy
- DNVL
- Douglass & Liddell
- Easy Energy Solutions
- EcoShift Consulting
- Edison Energy
- EDFMS LLC
- EDF Renewables NA LLC
- EES Consulting
- Emeral
- Energy By 5
- Energy Freedom Colorado
- Energy Toolbox
- Energy Utility Group
- EnergySage
- Eolis North America
- EQ Research
- Excel Energy
- First Solar
- Frontier Energy
- Gexa Energy
- Green Ideals
- GridX
- Home Energy Analytics
- Howard Choy Consulting, LLC
- Information Forecast Inc.
- IRESEN, Inc.
- Janney Financial Group
- JPM
- Just Energy
- Long Beach 350
- Marin Clean Energy
- Monterey Bay Aquarium
- Monterey Bay Community Power
- Morgan Stanley
- MRW & Associates
- Nanomass Corp.
- Navigant Consulting
- Nelson Energy Solutions
- New Haven Energy Task Force
- New Power Technologies
- NextEra Energy Resources
- Nicholas School of the Environment
- NRECA
- OC Clean Power
- OFA East Bay Central
- Oregon Department of Energy
- Origis Energy
- Panasonic CityNOW
- PECI
- Peninsula Clean Energy
- Persia PR
- PG&E
- Pioneer Community Energy
- Placer County Water Agency
- Power Association of Northern California
- Project Development
- Public Advocates Office
- Redwood Coast Energy Authority
- River City Bank
- Rocky Mountain Institute
- Romero Institute
- San Jeraudo Cooperative Inc.
- San Jose Clean Energy
- San Jose Community Energy Advocates
- Sapere Consulting
- SD350
- SFPUO / CleanPowerSF
- Shell Energy
- Siemens
- Sierra Business Council
- Sierra Club
- Silicon Valley Clean Energy
- Silvey
- Small Business Utility Advocates
- SMUD
- Solar Frontier Americas
- Solar United Neighbors
- Sonoma Clean Power
- sPower
- Straits Solar
- Sunrun Solar
- Sustainable Energy Inc.
- Sustainable Northwest
- Terasa Energy Marketing
- Target
- Tenaska Power Services Co.
- TerraVerde Energy LLC
- The Climate Center
- The Energy Authority
- The Nature Conservancy
- Trenchard Consulting
- UC Berkeley Goldman School of Public Policy
- UC Santa Cruz
- UCLA Luskin Center for Innovation
- Utility Cost Management LLC
- Valley Clean Energy
- Virginia Clean Energy
- Wilson Sonsini Goodrich & Rosati PC
- World Bank
- World Business Academy
- Your Solar LLC
- ZNE Alliance
Guest Speakers

Girish Balachandran  
CEO  
Silicon Valley Clean Energy

Sean MacNeil  
Legislative Director  
Cal-CCA

Laura Fernandez  
Attorney  
Braun, Blaising, Smith, Wynne, P.C.
### California CCA Update - Operational

**NORTHERN CALIFORNIA**

**Redwood Coast Energy Authority**  
**Humboldt County**

**PPA:** RCEA signed a 15-year PPA with Snow Mountain Hydro (SMH) for the full capacity of its 5.6 MW seasonally operated, run-of-the-river Cove hydropower project in Shasta County. Deliveries of power set to begin in February 2020.  
**Feed-In Tariff:** Applications are being received for community-scale renewable energy projects under 1MW in Humboldt County.  
**Strategic Planning:** RCEA’s RePower Humboldt 2019 Update has been underway since August. Final plan adoption is expected at its December Board meeting.  
**Electric Vehicles:** RCEA co-produced the first Humboldt Co. EV Parade & Expo on Saturday, 11/30. Participants decorated their EVs with lights and drove through downtown ending at the Blue Lake Rancheria Tribe’s renowned microgrid.  
**Airport Microgrid:** RCEA staff is presenting its work on experimental tariffs for the Redwood Coast Airport Microgrid at the SB 1339 Microgrid workshop on 12/12.

**MCE**  
*(Marin, Napa, Contra Costa, Solano Counties)*

**Expansion:** The Fairfield City Council (Solano County) looks likely to join MCE for service in 2022; Vallejo and Pleasant Hill will also join MCE for service beginning in 2021.  
**Resiliency:** MCE’s Board voted to commit $3 million to support critical resiliency projects for in its four county service area. This $3M is in addition to MCE’s current $2+ million Local Renewable Energy & Program Development Fund.  
**Climate Action Update:** MCE released its Fall 2019 Update on Climate Action Advancements Across its Bay Area.  

**East Bay Community Energy**  
**Alameda County and soon the City of Tracy (San Joaquin County)**

**Expansion:** The Board approved the addition of the Cities of Newark and Pleasanton (Alameda County) and the City of Tracy (San Joaquin County) to join EBCE for service beginning in 2021.  
**Medical Baseline:** EBCE’s Board approved $500k for a new program to support electric needs of medical baseline customers  
[https://ebce.org/ebce-approves-500000-for-program-to-support-customers-with-medical-need-for-reliable-electricity/](https://ebce.org/ebce-approves-500000-for-program-to-support-customers-with-medical-need-for-reliable-electricity/)
### California CCA Update - Operational

**NORTHERN CALIFORNIA**

**San Jose Clean Energy**  
*City of San Jose*

**EV Incentives:** San Jose City Council approved SJCE’s participation in the California Energy Commission’s (CEC) CALeVIP program to incentivize build out of EV charging stations. SJCE will contribute $4 million and the CEC will contribute $10 million for Level 2 and DC Fast Charging ports. The program is expected to roughly double the number of charging points in the city.

**PPA Announcement:** SJCE will announce this month another long-term PPA for renewable energy to be delivered from a newly constructed power project.

**Open Positions:** Public Information Manager, Senior Budget Analyst, 2 Regulatory/Legislative Specialists  
[www.sanjosecleanenergy.org/join-our-team/](http://www.sanjosecleanenergy.org/join-our-team/)

**Monterey Bay Community Power**  
*Monterey, Santa Cruz, San Benito Counties, Cities of San Luis Obispo and Morro Bay with more on the way*

**Expansion Plans:** 2020 Launch - Cities of Morro Bay and San Luis Obispo; 2021 Launch - Del Rey Oaks (Monterey Co), Grover Beach, Arroyo Grande, Paso Robles, Pismo Beach (SLO County); unincorporated Santa Barbara County, Carpinteria, Goleta, Guadalupe, Santa Maria (Santa Barbara County).

**Critical Facilities Fund:** MBCP’s Board authorized the creation of a $25M fund to finance back up power supply projects for critical facilities including hospitals and medical facilities, water agencies, fire and police and possibly schools, homeless shelters, grocery stores and more.

**Open Positions:** Administrative Assistant, Energy Programs Mgr., Data Scientist, Finance Manager, Energy Risk Analyst, Energy Regulatory and Legislative Analyst.  
[www.mbcommunitypower.org/careers](http://www.mbcommunitypower.org/careers)
## NORTHERN CALIFORNIA

| **Peninsula Clean Energy**  
**San Mateo County** | **Electric Vehicles**: EV rebates up to $7,000 for PCE customers; ends December 31st.  
**Back Up Power/RA RFP**: PCE Board authorized up to $10M over three years to fund clean back-up power solutions for medically vulnerable residents in San Mateo County. PCE is also part of a 4-agency RFP (with EBCE, SCVE and SVP) for Distributed Resource Adequacy Capacity that is expected to result in over 30MW of battery storage combined with solar for over 6,000 homes in Alameda, San Mateo and Santa Clara Counties. Bids are due on 12/23. See link below.  
| **Silicon Valley Clean Energy**  
**Santa Clara County except for Cities of Santa Clara and San Jose** | **Resiliency/RA RFP**: SVCE is part of the 4 agency Distributed Resource Adequacy Capacity RFP. The RFP is open through Dec. 23 and available at: [https://www.svcleanenergy.org/solicitations/](https://www.svcleanenergy.org/solicitations/)  
**Utility API Pilot**: SVCE launched a pilot project with Utility API’s Data Exchange Platform which allows SVCE customers to share their energy usage data with local solar, storage, EV charging and other third-party providers for more efficient project installations and upgrades. [https://www.greentechmedia.com/articles/read/silicon-valley-clean-energy-and-utilityapi-want-to-free-meter-data-and-spur#gs.a1m2we](https://www.greentechmedia.com/articles/read/silicon-valley-clean-energy-and-utilityapi-want-to-free-meter-data-and-spur#gs.a1m2we)  
**Education Fund**: SVCE is sponsoring an education fund that supports local high school and college students with up to $10,000 for projects that incorporate SVCE’s decarbonization mission as well as an outreach component.  
**Open Positions**: Power Resources Planner. Visit [https://www.svcleanenergy.org/jobs/](https://www.svcleanenergy.org/jobs/) |
## SOUTHERN CALIFORNIA

### Clean Power Alliance – So. CA LA and Ventura Counties

**PPAs:** CPA recently signed a 20 year deal with a subsidiary of Next Era to contract for 300MW of wind power from its White Hills Project located near Hoover Dam. The project is expected to begin construction this month and will count as a PCC-1 resource for CPA. The developer also committed $1M toward local workforce development initiatives in CPA’s service territory over 4 years.

**RFO:** CPA released its Clean Energy RFO in October; short-list of finalists will be posted in January.

**Open Positions:** Accountant, Clerk of the Board, Distributed Energy Resource Programs Manager, Energy Resource Planner, Financial Analyst, Human Resources/Administrative Associate, Manager of Load Forecasting and Analysis, Power Origination Manager. Link: [https://cleanpoweralliance.org/get-involved/job-contracting-opportunities/](https://cleanpoweralliance.org/get-involved/job-contracting-opportunities/)

### CalChoice (California Choice Energy Authority)

**Expansion:** City of Santa Barbara has selected CalChoice as their CCA service provider. The City’s Implementation Plan was adopted and filed with the CPUC; program launch is expected in early 2021.

**Other Scheduled Launches:**
- **October 2020:** Baldwin Park, Hanford, Palmdale, Pomona.
- **May 2021:** City of Commerce.
<table>
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<th>2021 and Beyond</th>
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| **San Diego County** | **San Diego Community Power**: JPA formed on 10/1 that includes the City of San Diego and the Cities of Chula Vista, La Mesa and Encinitas and Imperial Beach. RFP for wholesale power services has been released; bids are due 12/19. On track to submit Implementation Plan in mid-December.  
**Clean Energy Alliance**: JPA formed that includes Solana Beach and the cities of Carlsbad and Del Mar. RFPs for power services and data management forthcoming. On track to submit Implementation Plan by end of December. |
| **Butte County** | **Butte Choice Energy**: New JPA formed between Butte County and the City of Chico  
**RFPs**: RFPs for banking and credit services and wholesale power services will be released later this month or in early January. BCE is on track to submit Implementation Plan by end of December. |
| **Santa Barbara County** | **CalChoice**: The City of Santa Barbara has decided to form their own CCA through CalChoice  
**MBCP**: The County of Santa Barbara and the cities of Carpenteria, Goleta, Guadalupe, Santa Maria and Solvang are joining MBCP. All communities are on track to launch in 2021 |
| **Central Valley** | **Central Valley**: The City of Tracy voted to join EBCE and will be enrolling in 2021; The City of Fresno is finalizing its RFP for a technical study - no release date yet; City of Stockton is aiming for early 2020 RFP for its technical study; Many smaller cities such as Kerman, Sanger, Huron, Selema, Reedley, Firebaugh, Coalinga, as well as Merced County and City of Madera are in early CCA investigations.  
**The City of Long Beach** and several Orange County cities are investigating CCA options. |
<p>| <strong>Long Beach and Orange County</strong> |  |</p>
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<tr>
<th>COLORADO</th>
<th>ARIZONA</th>
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<tr>
<td>• Wholesale CCA study bill proposed by Rep. Edie Hooton made it out of</td>
<td>• ACC Docket # RE-00000A 18-0405: Electric Choice</td>
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<td>Legislative Council and will be introduced in the 2020 session beginning</td>
<td>• <a href="https://edocket.azcc.gov/Docket/DocketDetailSearch?docketid=21938">https://edocket.azcc.gov/Docket/DocketDetailSearch?docketid=21938</a></td>
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<td>in January.</td>
<td>• CCA briefing with Utilities Division Chief and staff in October (key</td>
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<td>• Issue of Community Utility Partnerships disguised as community choice</td>
<td>issues: difference between retail and wholesale CCA, governance, lack</td>
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<td>has come up.</td>
<td>of an RTO)</td>
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<td>• LEAN will be asking CA CCA colleagues for peer networking and</td>
<td>• 3 of 5 Comrs. have expressed interest in competition</td>
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<td>information-sharing support</td>
<td>• Still time to comment before next workshop on 12/19</td>
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<td>• Voting decision not expected until next Summer/Fall</td>
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<th>VIRGINIA</th>
<th>CONNECTICUT</th>
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<td>• Politics at the VA Legislature are trending blue</td>
<td>• City of New Haven recently passed resolution of support along with</td>
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<td>• CCA legal study from UVA will be released shortly</td>
<td>Middletown; 5+ other cities are expected to pass resolutions in December/</td>
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<tr>
<td>• Technical study for the County of Arlington will be released in</td>
<td>January</td>
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<td>early 2020; interest is picking up</td>
<td>• State advocacy coalition has expanded to 10+ organizations; they are</td>
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<td>• City of Alexandria passed emergency climate reso. that included</td>
<td>doing a great job with the grassroots effort</td>
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<td>the following language: “the City will pursue a reduction in</td>
<td>• 2020 authorizing bill drafting underway</td>
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<td>community-wide GHG emissions from energy use by advocating for the</td>
<td>• Bill sponsor(s) TBD; 2020 is a short, 3-month legislative session</td>
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<td>Commonwealth of VA to adopt policies or regulations that will</td>
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<td>decarbonize electricity supply and allow for community choice over</td>
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<td>electricity supply purchasing.”</td>
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## MARYLAND

- Aggregation authorizing bill has been drafted for introduction by Rep. Lorig Charkoudian and others.
- Bill language seeks to blend/accommodate realities of current retail market with some of the clean power/long-term benefits of wholesale aggregation.
- Montgomery and Anne Arundel Counties and several state organizations are supporting; working to bring solar industry along
- Pepco (main IOU) is actively lobbying against

## OREGON

- No new bill introduction in 2020
- Regrouping to focus on building stronger advocacy coalition and statewide demand
- Several cities and counties remain interested but not willing to go up against IOUs “at this time.”
- Stay tuned. We’ll be back…
The Structural Future of PG&E: Considering the Options

LEAN Energy Webinar
December 6, 2019
PG&E Current Status

• PSPS Events
• Bankruptcy Court
• Competing Plans
• Timeline & PG&E after bankruptcy
Venue

1. Bankruptcy Court
2. Governor’s office
3. State Legislature
4. CPUC
5. Public Opinion
Private Options

1. Buyout – White Knight
2. PG&E Shareholders
3. PG&E Bondholders
Public Options

1. Public-Benefit Corporation
2. Customer Owned/Co-op
3. Public Utility District
4. Local municipalization
COU Principles

1. Geographic Inclusion & Equity
2. Governing Board Responsibilities & Selection Process
3. Labor & Workforce
4. Power Supply Procurement
5. Public Accountability
6. Rate & Credit Quality
7. Safety & Response
Timing & Outlook

1. Near-term solution by June to access Wildfire Fund

2. When will key decisions be made and by whom? What is the decision-making process?
Contact

Girish Balachandran
CEO, Silicon Valley Clean Energy
girish@svcleanenergy.org
408 721-5301 x1001
Assembly Bill 56 (Garcia): Would establish a central procurement mechanism with sweeping authority to procure resources on behalf of (and allocate costs to) CCA customers. CalCCA oppose.

Senate Bill 350 (Hertzberg): Would authorize the CPUC to establish a multi-year resource adequacy procurement mechanism.

Senate Bill 772 (Bradford): Would require CAISO to procure 2,000MW of long-duration energy storage projects by 2022. CalCCA oppose.

Assembly Bill 235 (Mayes): Creates the Wildfire Victims Recovery Fund by allowing the state to issue tax exempt bonds to pay back the victims as well as cover other wildfire related costs.


Senate Bill 592 (Hueso): Would require the development of a 500 MW pumped hydro project in Southern California.
Public Safety Power Shutoffs (PSPS): Rules and parameters for designating PSPS events, mitigation of impacts (microgrids, DERs), and customer protections.

Wildfire resiliency, response, and recovery: Grid infrastructure hardening, forest health, building fireproofing, and homeowners insurance.

PG&E bankruptcy: Competing PG&E reorganization plans from debtors, bondholder, and others.

Grid restructuring: IOU exit from retail, municipalization, customer-owned cooperatives, central buyer and provider of last resort.

Preventing another energy crisis: Capacity shortfall and IRP compliance.
Key Regulatory Developments

Integrated Resource Plan (IRP) Activity

- Recent ruling requesting comment on the Proposed Reference System Plan

Power Charge Indifference Adjustment (PCIA) Activity

a. Working Group 2 (Prepayment) is wrapping up
   i. PCIA Prepayment Working Group 2 Workshop
   ii. Informal Comments filed
b. Working Group 3 (Portfolio Optimization) is working to finalize proposals
   i. Upcoming workshop to discuss the current status of Working Group 3
c. The IOUs’ 2020 ERRA applications are drawing to a close (proposed decisions expected soon)

Cost of Capital

- Proposed Decision establishing the 2020 cost of capital for PG&E, SCE, SDG&E, and SoCalGas

PG&E Bankruptcy
Key Regulatory Developments

RPS Procurement Plans

- Proposed Decision on 2019 RPS Procurement Plans

Resource Adequacy (RA)

a. New Order Instituting Rulemaking Issued
   i. Applications for Rehearing of the CPUC’s Import RA Decision
b. Numerous requests for RA Waivers

Microgrid Activity

a. Upcoming Public Workshop on Microgrids
b. Upcoming Prehearing Conference

PSPS Activity:

a. CalCCA filed Comments on PG&E’s Event Reports
b. Prehearing Conference for PG&E’s Order to Show Cause
Upcoming Events

Solar, Storage, and Smart Energy Expo
January 16-17, San Francisco
More info HERE

Community Choice Energy Summit
January 22-24, Sacramento
More info HERE

Wind Power Finance and Investment Summit
February 4-6, San Diego
More info HERE

Next LEAN Market Call
February 14, 2019 10:00 am – 11:00 am
Register HERE

Energy Disruption: How Local Governments Can Respond to the New Normal
January 31, San Diego
More info HERE