# Peninsula Clean Energy Board of Directors Meeting

June 25, 2020



## **Agenda**

- Call to order / Roll Call
- Public Comment

Action to set the agenda and approve consent items



1. Chair Report (Discussion)



2. CEO Report (Discussion)



## **Today's Updates**

- Staffing Update
- COVID-19 Update
  - Load Impact Analysis
- Merced County Update
- Strategic Plan Update
- Update on Power On Peninsula Portable Battery Program for Medically Vulnerable Customers
- Upcoming PCE Meetings



## **Staffing Update**



- Dave Fribush started on June 1, 2020, as a consultant for a six-month term as Manager of Distributed Energy Resources Strategy.
- Matthew Rutherford started on June 15 as Regulatory Analyst
- Greg Miller, PhD student from UC Davis, joined PCE on June 15 as summer intern, researching 24x7 renewable energy goal
- Bobbi Bennett, HR Consultant, introduced to staff on June 17 with focus on Employee Relations and Employee Engagement. She will be meeting with every staff member over the next few weeks.
- We currently have one open position for a Data Manager.



## **COVID-19 Load Impact Analysis**

- Overall PCE load
- Weekly and Daily Load Changes
- Weekly Load by Customer Type
- Load Shape Changes

Thank you to the power resources team for this analysis!



### PCE Load after Shelter-in-place order

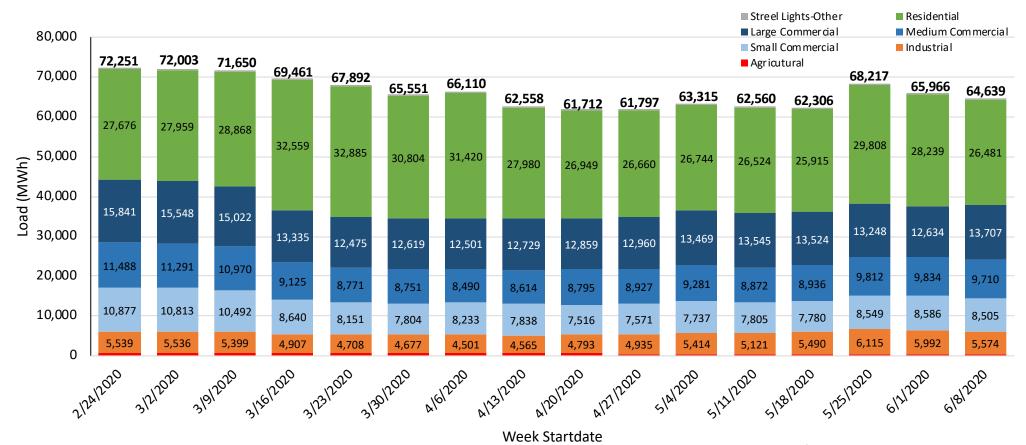
- Week of May 25<sup>th</sup> (Memorial Day Weekend Heatwave):
  - 6% decrease in Total PCE load compared to last week of Feb.
  - Around 17% decrease in commercial load
  - 8% increase in residential load (due to higher than normal temperatures, customers running cooling devices)
- Week of June 8<sup>th</sup>:
  - 11% decrease in Total PCE load compared to last week of Feb.
  - Around 16% decrease in commercial load
  - 4% decrease in residential load (due to milder temperatures)

| Customor Class      | 2/24/2020 | 5/25/2020  Load Percent Change |      | 6/8/2020 |                |
|---------------------|-----------|--------------------------------|------|----------|----------------|
| Customer Class      | Load      |                                |      | Load     | Percent Change |
| Agricutural         | 593       | 495                            | -17% | 475      | -20%           |
| Industrial          | 5539      | 6115                           | 10%  | 5574     | 1%             |
| Large Commercial    | 15841     | 13248                          | -16% | 13707    | -13%           |
| Medium Commercial   | 11488     | 9812                           | -15% | 9710     | -15%           |
| Residential         | 27676     | 29808                          | 8%   | 26481    | -4%            |
| Small Commercial    | 10877     | 8549                           | -21% | 8505     | -22%           |
| Street Lights-Other | 237       | 190                            | -20% | 186      | -21%           |
| Total PCE (MWh)     | 72251     | 68217                          | -6%  | 64639    | -11%           |



## **Weekly Load**

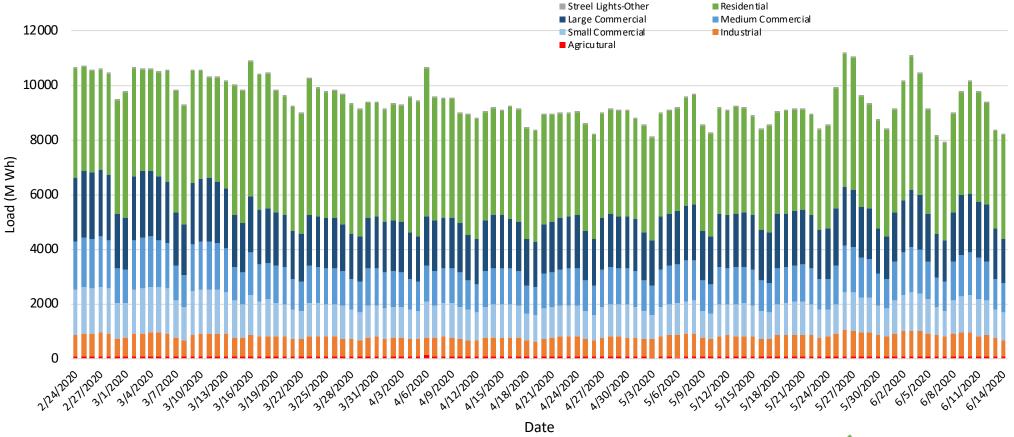
 9% and 11% decrease in Total PCE load in weeks of June 1<sup>st</sup> and June 8<sup>th</sup> compared to last week of Feb and first two weeks of Mar



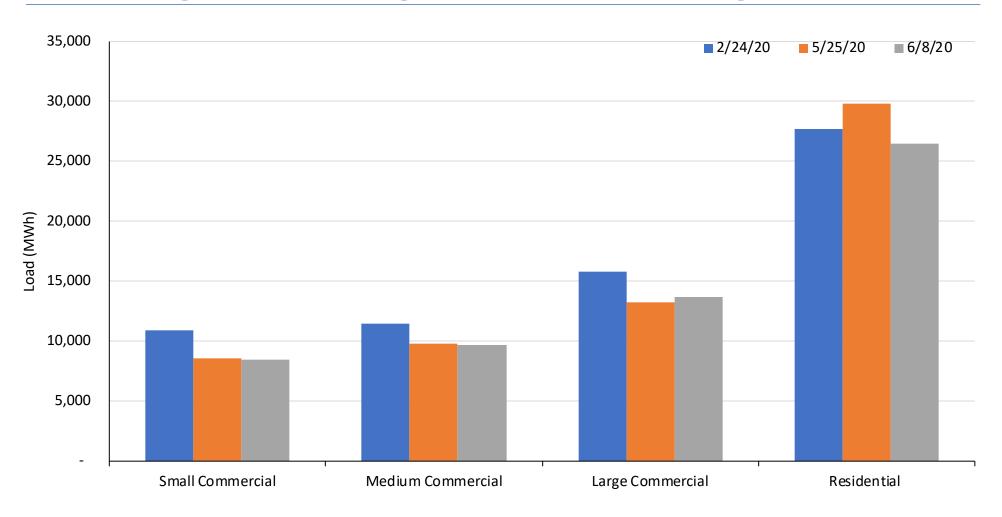


## **Daily Load**

 Decrease in daily load compared to same weekdays in the weeks before shelter-in-place.

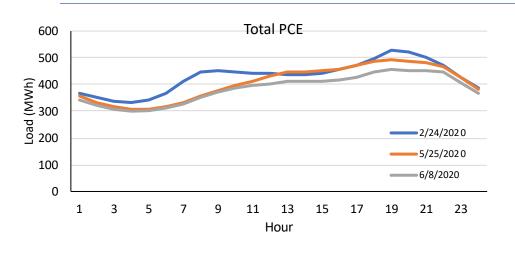


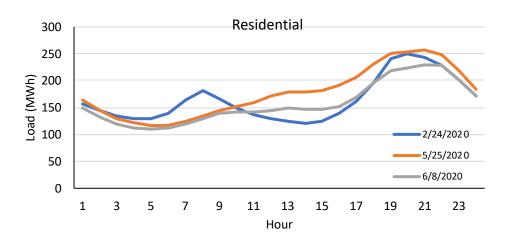
## Weekly Load by Customer Type

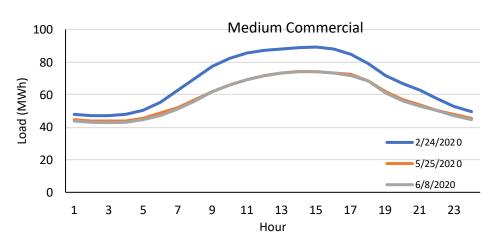


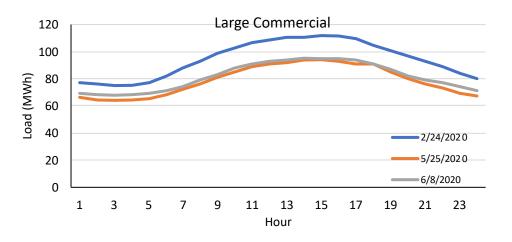


## **Load Shapes**



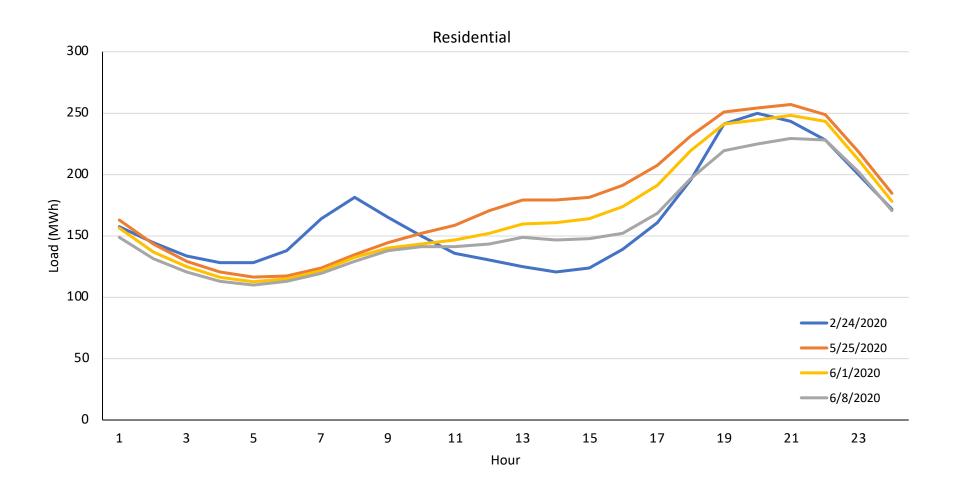








## **Residential Load Shape**





## **Merced County Update**

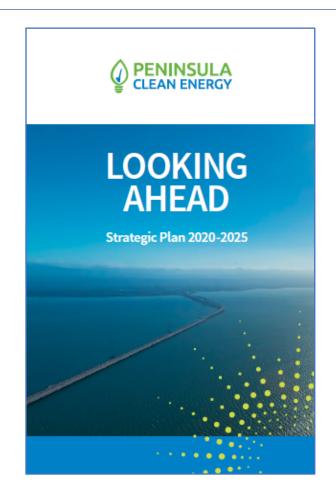
- PCE presentation to Los Banos City Council on June 3
- Los Banos City Council voted unanimously to go forward with a technical study
- Awaiting response from Merced County regarding their interest in joining the study



## **Strategic Plan Update**

 High level "glossy" brochure (pdf) expected to be on PCE website by end of June

Ongoing implementation work of the plan by staff





#### Power On Peninsula – Medically Vulnerable Program

- Program structure: Donation of Portable Battery
- Customer targets: Customers enrolled in or eligible for PG&E's Medical Baseline program that live in areas likely subject to PSPS events
- Product: Goalzero Yeti 3000x
   3,000 Wh battery + 200W foldable solar panel (see picture)
- Volume & Cost Targets:



|                           | Unit Volume | Total<br>Capacity | Total Cost (\$) |
|---------------------------|-------------|-------------------|-----------------|
| Yeti 3000x                | 150         | 450kWh            | 360,000         |
| 200W Foldable solar panel | 100         | 20kW              | 37,500          |
| Total                     |             |                   | 397,500         |



#### Power On Peninsula – Medically Vulnerable Program

- Outreach partners:
  - Senior Coastsiders agreement in process
  - Puente de la Costa Sur working on agreement
- Product Sourcing and Distribution:
  - Working with a number of different channels
  - Hoping to get initial product delivery in July/Aug
- Shout out to Peter Levitt and Kirsten Andrews-Schwind for their work on this project



## **Upcoming Meetings**

These meetings will continue to be held by video/teleconference

- Citizens Advisory Committee:
  - July 9 at 6:30 p.m.
- Executive Committee:
  - July 13 at 8:00 a.m.
- Board of Directors:
  - July 23 at 6:30 p.m.



3. Citizens Advisory Committee Report (Discussion)

4. Audit and Finance Committee Report (Discussion)

5. Approve Fiscal Year 2020-2021 Budget (Action)



## Fiscal Year FY2020-2021 Budget Review *Proposed*



## Schedule – Budget Review and Approval

May 11, 2020 - Review Draft with Executive Committee - **Done** 

May 11, 2020 - Review Draft with Audit & Finance Committee - **Done** 

May 28, 2020 – Review Draft with Board of Directors - **Done** 

June 8, 2020 – Review Final Proposal with Audit & Finance Committee - **Done** 

June 25, 2020 – Approve Final by Board of Directors



#### Resolution Approved by Audit & Finance Committee

# RESOLUTION RECOMMENDING THAT THE BOARD OF DIRECTORS APPROVE THE FISCAL YEAR 2020-2021 BUDGET WITH TOTAL OPERATING EXPENSES NOT TO EXCEED \$225,642,453

UNANIMOUSLY APPROVED ON JUNE 8, 2020

PENINSULA
CLEAN ENERGY

#### Proposed Budget FY2020-2021 - Key Assumptions

- Rates PG&E Generation Rates Increase of 2% on Jan 1, 2020
- PCIA
  - PCIA Cap of \$0.005 on Jan 1, 2021
  - PCIA Trigger of 58% increase on Oct 1, 2020 (3 months)
- Energy Prices
  - Based on latest ABB forecast (in November) does not include effects of COVID-19
- PPA Contracts
  - Mustang (Solar) project expected to start December 1, 2020 for 15 years
  - New Wind project starting January 1, 2021 for 7 years
- Programs
  - DER/Resiliency Program ramps up at total cost of \$2 million
  - Significant expansion of Community Energy Programs
    - Approved Electric Vehicle Programs/Infrastructure \$5 million
    - Proposed Building Electrification Program \$950K



#### **Load Assumptions for Budget**

- No sharp recovery periods
- Residential
  - o 6% increase through June 2021, then 4% increase for 1 year
  - 2% increase for next 3 years after
- Small/Medium Business (biggest change)
  - 30% decrease through June 2021, then 25% decrease for 1 year
  - 20% decrease for next 3 years after
- Large Commercial/Industrial
  - 20% decrease through June 201, then 15% decrease for 1 year
  - 10% decrease for next 3 years after
- Total PCE Load
  - 13% decrease through June 2021, then 10% decrease for 1 year
  - 8% decrease for next 3 years after

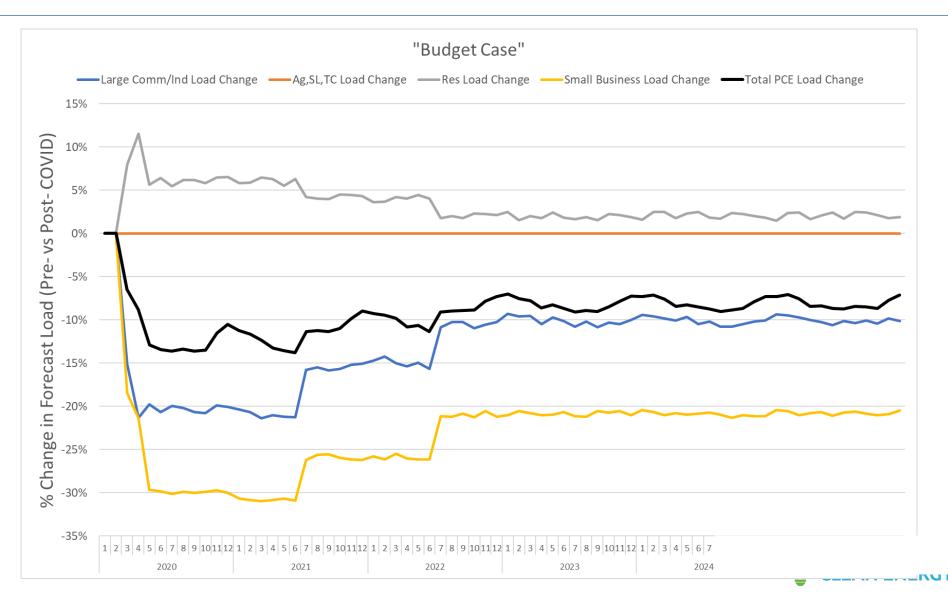


#### Impact of Revised COVID-19 Assumptions on Total Load

|                                | FY2020-2021 | FY2021-2022 | FY2022-2023 | FY2023-2024 | FY2024-2025 |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|
|                                |             |             |             |             |             |
|                                |             |             |             |             |             |
| Pre-COVID Forecast             | 3,817       | 3,836       | 3,880       | 3,934       | 3,969       |
|                                |             |             |             |             |             |
| Revised Budget (GWh)           | 3,334       | 3,437       | 3,561       | 3,614       | 3,646       |
|                                |             |             |             |             |             |
| Change from Pre-COVID Forecast | -13%        | -10%        | -8%         | -8%         | -8%         |



#### Impact of Revised COVID-19 Assumptions on Load by Customer Category



## **Summary Proposed Budget FY2020-2021**

|                                   | F  |
|-----------------------------------|----|
|                                   | Ар |
|                                   |    |
| <b>Total Operating Revenues</b>   |    |
|                                   |    |
| OPERATING EXPENSES                |    |
| Cost of energy                    | _  |
| Staff compensation                |    |
| Consultants & Professional Svcs   |    |
| Communications and Noticing       |    |
| Community Energy Programs         |    |
| Other Operating Expenses          |    |
| <b>Total Operating Expenses</b>   |    |
|                                   |    |
| Operating Income (Loss)           |    |
|                                   |    |
| Total Nonoperating Inc/(Exp)      |    |
|                                   |    |
| CHANGE IN NET POSITION            |    |
|                                   |    |
| Net Position at the end of period |    |
|                                   |    |
| Total Cash & Cash Equivalents     |    |
|                                   |    |
| Unrestricted - Days Cash on Hand  |    |

| FY2019-2020     |
|-----------------|
| Approved Budget |
|                 |
| 267,782,231     |
|                 |
|                 |
| 216,549,065     |
|                 |
| 4,589,149       |
| 896,333         |
| 1,754,800       |
| 5,094,473       |
| 7,925,266       |
|                 |
| 236,809,086     |
|                 |
| 30,973,145      |
|                 |
| 2,232,000       |
|                 |
| 22 205 145      |
| 33,205,145      |
|                 |
| 167,991,587     |
|                 |
| 159,102,751     |

| FY2019-2020 | FY2020-2021     |
|-------------|-----------------|
| Forecast    | Proposed Budget |
|             |                 |
| 275,734,960 | 215,703,496     |
|             |                 |
| 206,707,294 | 197,445,054     |
| 4,463,060   | 6,236,981       |
| 825,945     | 3,068,340       |
| 1,233,693   | 2,873,350       |
| 1,680,058   | 7,550,000       |
| 7,619,335   | 8,468,728       |
| 222,529,385 | 225,642,453     |
| ,           |                 |
| 53,205,575  | (9,938,957)     |
| 2,113,545   | 1,408,000       |
| 55,319,120  | (8,530,957)     |
| , ,         |                 |
| 195,458,248 | 186,927,291     |
| 222,445,744 | 186,646,421     |

| Variance FY2021 Budget vs. FY2020 Forecast Increase/(Decrease) |          |  |
|--|----------|--|
| \$ Change  | % Change |  |
|  |          |  |
| (60,031,464)   | -22%     |  |
|  |          |  |
|  |          |  |
| (9,262,240)  | -4%      |  |
| 1,796,421  | 40%      |  |
| 2,242,395  | 271%     |  |
| 1,639,657  | 133%     |  |
| 5,869,942  | 349%     |  |
| 849,393  | 11%      |  |
| 3,135,568  | 1%       |  |
|  |          |  |
| (63,144,532)   | -119%    |  |
|  |          |  |
| (705,545)  | -33%     |  |
|  |          |  |
| (63,850,077)   | -115%    |  |
|  |          |  |

Approve \$225.6 million **Total Operating Expenses** 

#### **Proposed Budget Detail - Revenues**



| FY2019-2020     |
|-----------------|
| Approved Budget |
|                 |
|                 |
| 265,221,745     |
| 2,560,486       |
| 267,782,231     |
|                 |

| FY2019-2020 | FY2020-2021     |
|-------------|-----------------|
| Forecast    | Proposed Budget |
|             |                 |
|             |                 |
| 273,223,764 | 213,552,721     |
| 2,511,196   | 2,150,775       |
| 275,734,960 | 215,703,496     |
|             |                 |

| Variance FY2021 Budg<br>Increase/( |          |
|------------------------------------|----------|
| \$ Change                          | % Change |
|                                    |          |
|                                    |          |
| (59,671,042)                       | -22%     |
| (360,422)                          | -14%     |
| (60,031,464)                       | -22%     |

Significant changes in Revenue from FY2019-20 Forecast to FY2020-21 Budget:

- Reduction of \$5 million PCIA Cap of \$0.005 implemented on May 1, 2020
- Reduction of \$16 million PCIA Trigger (58%) on October 1, 2020 (3 months)
- Reduction of \$8 million PCIA Cap of \$0.005 implemented on January 1, 2021
- Reduction of \$31 million COVID-19 Load reduction assumptions (partially offset by lower energy costs)



#### **Proposed Budgeted Cost Detail – Cost of Energy**

| OPERATING EXPENSES               |     |
|----------------------------------|-----|
| Cost of energy                   |     |
| Net Energy Purchases             |     |
| Resource Adequacy (Net of Resale | es) |
| RECs and GHG Purchases           |     |
| Forecasting and scheduling       |     |
| NEM Expense                      |     |

|    | FY2019-2020     |
|----|-----------------|
|    | Approved Budget |
|    |                 |
|    |                 |
|    | 216,549,065     |
|    | 166,929,241     |
| s) | 21,045,015      |
|    | 26,787,350      |
|    | 1,313,079       |
|    | 474,380         |

| FY2019-2020 | FY2020-2021     |
|-------------|-----------------|
| Forecast    | Proposed Budget |
|             |                 |
|             |                 |
| 206,707,294 | 197,445,054     |
| 153,536,002 | 146,775,606     |
| 27,458,325  | 31,474,662      |
| 23,379,671  | 16,717,285      |
| 1,332,632   | 1,477,502       |
| 1,000,664   | 1,000,000       |
|             |                 |

| Variance FY2021 Budget vs. FY2020 Forecast Increase/(Decrease) |          |
|--|----------|
| \$ Change  | % Change |
|  |          |
|  |          |
| (9,262,240)  | -4%      |
| (6,760,397)  | -4%      |
| 4,016,337  | 15%      |
| (6,662,386)  | -28%     |
| 144,871  | 11%      |
| (664)  | 0%       |

#### Net Energy Purchases - Lower

- Lower volume expected
- PPAs are producing in FY20-21 (Wright Solar for full year, Mustang for 7 months)

#### RECs and GHG expenses lower

- Lower volume required
- Production from PPAs decreases need to purchase separately

#### Resource Adequacy - Higher

- Higher prices expected
- Increased Volume Requirements are based on prior year (Pre-COVID) forecast

#### Proposed Plan FY2022-2025 - Key Assumptions

Rates – Increase of 0.5% on Jan 1 of each year starting on Jan 1, 2022

#### **PCIA**

- PCIA Cap of \$0.005 on Jan 1, 2022
- PCIA Trigger no additional Trigger

#### **PPA Contracts**

- 1st Solar+Storage project starting January 1, 2023 for 20 years
- 2nd Solar+Storage project starting January 1, 2023 for 20 years
- New Solar+Storage project starting January 1, 2024 for 20 years
- Community Solar projects starting September 1, 2021

#### **Programs Contracts**

- DER/Resiliency Program ramps continues
- Significant expansion EV infrastructure- \$5 million/year in FY22 and FY23
- Allocated funds for Innovation \$1 million/year in FY23, FY24 and FY25



## **Proposed 5-year Plan – Observations**

#### 1. COVID-19 likely to have significant impact on revenues

- Revenue decrease of \$31 million expected in FY20-21
- Revenue decrease of an average of \$23 million expected for each of next 4 years

# 2. Expect to be able to mitigate revenue loss with significant energy cost reductions

- Cost of Energy expected to be \$24 million lower than Pre-COVID in FY20-21
- Cost of Energy expected to be on average \$19 million less for next 4 years

# 3. Avg of \$5 MM/year impact to Net Position – Declining from \$9 MM impact in FY20-21

# 4. Significant Cash Reserves and Open Position in energy procurement enables:

- Ability to weather downturn for some time
- Maintain Cash Reserves well above required level
- Continue to invest in community grants and energy programs



## Proposed FY2020-2021 Budget & 5-year Plan

FY2020-2021 FY2021-2022 FY2022-2023 FY2023-2024 FY2024-2025 **Proposed Budget** Plan Plan Plan Plan **OPERATING REVENUES** Electricity Sales, net 213,552,721 229.955.736 231,697,113 237.874.445 242,042,383 Green electricity premium 2,150,775 2,335,232 2,550,546 2,748,740 2,984,385 **Total Operating Revenues** 215,703,496 232,290,968 234,247,659 240,623,184 245,026,768 **OPERATING EXPENSES** Cost of energy 197.445.054 202,229,484 206,778,295 203,341,622 214,720,629 Staff compensation 6,236,981 6,786,954 7,119,219 7,468,097 7,834,419 3,558,866 3,420,000 3,454,200 3,488,742 3,523,629 Data Manager 1,285,326 1.298.179 1,311,161 Service Fees - PG&E 1.260.000 1,272,600 2,441,572 2,422,480 Consultants & Professional Svcs 3,068,340 4,175,940 2,898,135 1,708,230 1,854,449 1,706,160 1,753,260 1,797,619 Legal Marketing, Communications and Noticing 2,873,350 2,966,418 2,227,878 2,335,362 2,447,910 General and Administrative 1,947,282 2,071,452 2,588,462 2,658,448 2,731,552 **Community Energy Programs** 7,550,000 10,435,000 10,870,000 10,950,000 11,000,000 169,216 241,216 277,216 Depreciation 133,216 205,216 **Total Operating Expenses** 225,642,453 235,267,423 239,214,533 236,055,745 248,158,683 Operating Income (Loss) (9,938,957)(2,976,455)(4,966,874)4.567.439 (3,131,915)Total Nonoperating Inc/(Exp) 1,408,000 1,528,000 1,648,000 1,768,000 1,888,000 (1,243,915)**CHANGE IN NET POSITION** (8,530,957) (1,448,455)(3,318,874)6,335,439 Net Position at the end of period 186,927,291 185,478,836 182,159,962 188,495,402 187,251,487 Total Cash & Cash Equivalents 186,646,421 184,697,966 181,379,092 187,714,531 186,470,616

242

233

255

Approve \$225.6 million Total Operating Expenses

Unrestricted - Days Cash on Hand

246-IN EINERUT

### Request for Approval by Board of Directors

RESOLUTION THAT THE BOARD OF DIRECTORS
APPROVE THE FISCAL YEAR 2020-2021 BUDGET WITH
TOTAL OPERATING EXPENSES NOT TO EXCEED
\$225,642,453



## Fiscal Year FY2020-2021 Budget Detailed Expense Categories



# **Proposed Budget Cost Detail – Staff Compensation**

| OPERATING EXPENSES            |
|-------------------------------|
| Staff compensation            |
| Employee welfare              |
| Payroll tax expense           |
| Retirement plan contributions |
| Salaries and wages            |
| Workers comp insurance        |
| Other                         |
| Temp Employee                 |

| FY2019-2020     |
|-----------------|
| Approved Budget |
|                 |
|                 |
| 4,589,149       |
| 223,550         |
| 260,809         |
| 353,954         |
| 3,725,836       |
| 25,000          |
| -               |
| -               |

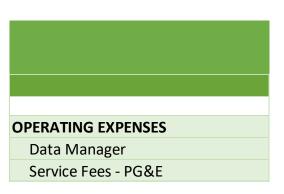
| FY2019-2020 | FY2020-2021     |
|-------------|-----------------|
| Forecast    | Proposed Budget |
|             |                 |
|             |                 |
| 4,463,060   | 6,236,981       |
| 326,327     | 442,592         |
| 224,254     | 306,797         |
| 326,489     | 455,633         |
| 3,561,432   | 5,006,958       |
| 24,558      | 25,000          |
| -           | -               |
| -           | 22,500          |

| Variance FY2021 Budget vs. FY2020 Forecast Increase/(Decrease) |          |
|--|----------|
| \$ Change  | % Change |
|  |          |
|  |          |
| 1,796,421  | 40%      |
| 116,266  | 36%      |
| 82,543   | 37%      |
| 129,144  | 40%      |
| 1,445,526  | 41%      |
| 442  | 2%       |
| -  | 0%       |
| 22,500   | 0%       |

- Addition of 8 employees from today's level through June 2021 (2 current open positions)
- Increase over FY19-20 forecast looks bigger because 10 current employees were hired during the year – only a portion of their full-year salaries is reflected in current year's forecast



#### **Proposed Budget Cost Detail – Data Manager/Service Fees**



| FY2019-2020     |
|-----------------|
| Approved Budget |
|                 |
|                 |
| 3,822,123       |
| 1,256,056       |
| 1,256,056       |

| FY2019-2020 | FY2020-2021     |
|-------------|-----------------|
| Forecast    | Proposed Budget |
|             |                 |
|             |                 |
| 3,655,825   | 3,420,000       |
| 1,252,779   | 1,260,000       |
|             |                 |

| Variance FY2021 Budg |           |
|----------------------|-----------|
| Increase/(           | Decrease) |
| \$ Change            | % Change  |
|                      |           |
|                      |           |
| (235,825)            | -6%       |
| 7,221                | 1%        |

Significant assumptions of note:

Data Manager expenses expected to be lower due to revised/lower contract with Calpine



### **Proposed Budget Cost Detail – Professional Services**



| OPERATING EXPENSES                |
|-----------------------------------|
| Consultants & Professional Svcs   |
| Accounting & Auditing             |
| <b>Human Resources Consulting</b> |
| IT Consulting                     |
| Other Consultants                 |
| Technical consultants             |
| Power Resources Consulting        |

| FY2019-2020     |
|-----------------|
| Approved Budget |
|                 |
|                 |
| 896,333         |
| 165,000         |
| 68,000          |
| 48,000          |
| 290,000         |
| -               |
| 325,333         |

| FY2019-2020 | FY2020-2021     |
|-------------|-----------------|
| Forecast    | Proposed Budget |
|             |                 |
|             |                 |
| 825,945     | 3,068,340       |
| 174,753     | 191,000         |
| 24,236      | 72,000          |
| 60,495      | 60,000          |
| 242,344     | 527,000         |
| -           | -               |
| 324,117     | 2,218,340       |

| Variance FY2021 Budget vs. FY2020 Forecast Increase/(Decrease) |          |
|--|----------|
| \$ Change  | % Change |
|  |          |
| _  |          |
| 2,242,395  | 271%     |
| 16,247   | 9%       |
| 47,764   | 197%     |
| (495)  | -1%      |
| 284,656  | 117%     |
| -  | 0%       |
| 1,894,223  | 584%     |

- \$1.5 million for Approved DER and Resiliency projects included in Power Resources Consulting for now
- \$270K included in "Other Consultants" for Innovation projects



# **Proposed Budget Cost Detail – Legal**



| FY2019-2020     |  |
|-----------------|--|
| Approved Budget |  |
|                 |  |
|                 |  |
| 1,471,500       |  |
| 210,000         |  |
| 540,000         |  |
| 240,000         |  |
| 481,500         |  |

| FY2019-2020 | FY2020-2021     |
|-------------|-----------------|
| Forecast    | Proposed Budget |
|             |                 |
|             |                 |
| 1,265,791   | 1,708,230       |
| 118,323     | 126,750         |
| 458,463     | 720,000         |
| 193,397     | 240,000         |
| 495,609     | 621,480         |

| Variance FY2021 Budget vs. FY2020 Forecast Increase/(Decrease) |          |  |
|--|----------|--|
| \$ Change  | % Change |  |
|  |          |  |
| _  |          |  |
| 442,439  | 35%      |  |
| 8,427  | 7%       |  |
| 261,537  | 57%      |  |
| 46,603   | 24%      |  |
| 125,871  | 25%      |  |

- Increased legal effort expected in support of several new PPAs to be signed in FY2020-2021
- Increased Regulatory support expected

#### Proposed Budget Cost Detail – Communications/Marketing

| OPERATING EXPENSES             |
|--------------------------------|
| Communications and Noticing    |
| Advertising/Paid Media         |
| Communications consultants     |
| Sponsorships and memberships   |
| Marketing Automation/Software  |
| Promotions & Branding          |
| Communications - misc expenses |
| Grants & Partner Contracts     |
| Direct Mail                    |
| Collateral                     |
| Required Mailings              |

| FY2019-2020     | FY2019-2020 | FY2020-2021     |
|-----------------|-------------|-----------------|
| Approved Budget | Forecast    | Proposed Budget |
|                 |             |                 |
|                 |             |                 |
| 1,754,800       | 1,233,693   | 2,873,350       |
| 73,000          | 68,788      | 503,850         |
| 420,000         | 308,940     | 375,300         |
| 100,000         | 90,777      | 129,000         |
| 14,800          | 3,352       | 77,500          |
| 747,000         | 82,025      | 83,200          |
| 50,000          | 41,895      | 12,000          |
| 8,000           | 209,836     | 1,297,500       |
| -               | 8,645       | 87,000          |
| -               | -           | 72,000          |
| 342,000         | 419,436     | 236,000         |
| ·               |             |                 |

| Variance FY2021 Budget vs. FY2020 Forecast Increase/(Decrease) |          |  |
|--|----------|--|
| \$ Change  | % Change |  |
|  |          |  |
|  |          |  |
| 1,639,657  | 133%     |  |
| 435,062  | 632%     |  |
| 66,360   | 21%      |  |
| 38,223   | 42%      |  |
| 74,148   | 2212%    |  |
| 1,175  | 1%       |  |
| (29,895)   | -71%     |  |
| 1,087,664  | 518%     |  |
| 78,355   | 906%     |  |
| 72,000   | 0%       |  |
| (183,436)  | -44%     |  |

- Required Mailings expenses expected to decrease related to new electronic distribution of Joint Rate Mailer
- Additional funds were added for Board-approved program related to Resiliency
  - \$845K for Medically-vulnerable; grant funding to community-based organizations
  - \$220K for digital advertising for DER Resiliency
- \$208K for Building Electrification awareness previously approved by Board



#### **Proposed Budget Cost Detail – General & Administrative**

| OPERATING EXPENSES            |
|-------------------------------|
| General and Administrative    |
| Bank service fee              |
| Building Maintenance          |
| Business meals                |
| Conferences & prof developmen |
| Equipment lease               |
| Industry memberships and dues |
| Insurance                     |
| Miscellaneous G&A             |
| Office supplies and postage   |
| Payroll service fees          |
| Rent                          |
| Small equipment & software    |
| Subscriptions                 |
| Utilities                     |
| Travel - Mileage/fuel         |
| Travel - Parking and Tolls    |
| Travel - Airfare              |
| Travel - Lodging              |
| Travel - Other Travel         |

| FY2019-2020     |
|-----------------|
| Approved Budget |
|                 |
|                 |
| 1,277,187       |
| 60,000          |
| 3,000           |
| 12,000          |
| 42,000          |
| 3,600           |
| 425,000         |
| 84,000          |
| 12,000          |
| 18,000          |
| 18,000          |
| 381,787         |
| 72,000          |
| 60,000          |
| 48,000          |
| 4,200           |
| 3,600           |
| 12,000          |
| 12,000          |
| 6,000           |

| FY2019-2020 | FY2020-2021     |
|-------------|-----------------|
| Forecast    | Proposed Budget |
|             |                 |
|             |                 |
| 1,348,029   | 1,947,282       |
| 118,457     | 129,312         |
| 7,871       | 15,000          |
| 18,740      | 30,000          |
| 27,282      | 24,000          |
| 2,921       | 6,000           |
| 355,632     | 480,000         |
| 80,216      | 120,000         |
| 2,000       | -               |
| 17,407      | 24,000          |
| 20,172      | 21,000          |
| 429,324     | 531,570         |
| 113,442     | 390,000         |
| 72,701      | 72,000          |
| 48,433      | 60,000          |
| 3,121       | 3,600           |
| 4,574       | 7,200           |
| 7,705       | 9,600           |
| 17,031      | 24,000          |
| 1,000       | -               |

| Variance FY2021 Budget vs. FY2020 Forecast |          |  |
|--|----------|--|
| Increase/(Decrease)                        |          |  |
| \$ Change                                  | % Change |  |
|  |          |  |
| _  |          |  |
| 599,253                                    | 44%      |  |
| 10,855                                     | 9%       |  |
| 7,129                                      | 91%      |  |
| 11,260                                     | 60%      |  |
| (3,282)                                    | -12%     |  |
| 3,079                                      | 105%     |  |
| 124,368                                    | 35%      |  |
| 39,784                                     | 50%      |  |
| (2,000)                                    | -100%    |  |
| 6,593                                      | 38%      |  |
| 828  | 4%       |  |
| 102,246                                    | 24%      |  |
| 276,558                                    | 244%     |  |
| (701)                                      | -1%      |  |
| 11,567                                     | 24%      |  |
| 479  | 15%      |  |
| 2,626                                      | 57%      |  |
| 1,895                                      | 25%      |  |
| 6,969                                      | 41%      |  |
| (1,000)                                    | -100%    |  |

- Rent higher due to office expansion
- MembershipsmostlyCalCCA dues
- Software
   higher –
   includes
   \$240K for
   CRM software
   for Energy
   Programs



#### **Proposed Budget Cost Detail – Community Energy Programs**



| FY2019-2020     |  |
|-----------------|--|
| Approved Budget |  |
|                 |  |
|                 |  |
| 5,094,473       |  |
| 1,569,447       |  |
| -               |  |
| -               |  |
| 3,525,026       |  |

| FY2019-2020 | FY2020-2021     |
|-------------|-----------------|
| Forecast    | Proposed Budget |
|             |                 |
|             |                 |
| 1,680,058   | 7,550,000       |
| 895,183     | 2,403,000       |
| 105,196     | -               |
| 2,500       | 250,000         |
| 677,179     | 4,897,000       |
|             |                 |

| Variance FY2021 Budget vs. FY2020 Forecast Increase/(Decrease) |           |          |
|--|-----------|----------|
|  | \$ Change | % Change |
|  |           |          |
|  |           |          |
|  | 5,869,942 | 349%     |
|  | 1,507,817 | 168%     |
|  | (105,196) | -100%    |
|  | 247,500   | 9900%    |
|  | 4,219,821 | 623%     |
|  |           |          |

- Approved Electric Vehicle Programs/Infrastructure
  - Consulting \$1.1 million
  - Incentives \$3.9 million
- Approved Building Electrification Program- \$950K
- Community Pilots/Grants \$350K
- Approved Ride & Drives \$250K



# Regular Agenda

6. Approve Citizens Advisory Committee Recommendations for Operational Improvements (Action)

# Recommendations Requiring Board Approval

- A.1. Add a sixth item to CAC's objectives: "Form working groups, as determined by the CAC membership, to assist PCE's staff and Board with projects of importance to the organization."
- A.2. Recommend that a PCE Board member be appointed as an official liaison to the CAC.
- A.3. Enhance processes for reviewing and recommending the addition of new Advisory Committee members when filling open positions by increasing CAC involvement in their screening and selection.

# Regular Agenda

7. Authorize Chief Executive Officer to execute a Distributed Energy Storage Agreement for Resilience with Sunrun Inc. and any necessary ancillary documents in an amount not to exceed \$5,500,000 and for a term from January 1, 2022 through December 31, 2032 (Action)

# Approve Distributed Energy Storage Agreement with Sunrun

Siobhan Doherty, Director of Power Resource Peter Levitt, Associate Manager Distributed Resurces



#### Recommendation

 Authorize Chief Executive Officer to execute a Distributed Energy Storage Agreement for Resilience with Sunrun Inc. and any necessary ancillary documents in an amount not to exceed \$5,500,000, and for a term from January 1, 2022 through December 31, 2032

# **Agenda**

- Background
- About Sunrun
- Contract Terms
- Marketing Plan
- Recommendation

#### **Background**

- October 2019: 3 Public Safety Power Shutoff (PSPS) events impact PCE customers
  - Largest PSPS impacted over 55,000 customer accounts
- January 2020: Resiliency Strategy commits \$10 MM over 3 years
  - Distributed Resource Adequacy (RA) to provide backup power to customers and RA benefits to Peninsula Clean Energy



### **Solicitation Summary**

- Coordinated with 3 other load serving entities (LSEs): EBCE, SVCE, SVP
- Issued November 19, 2020
- Targeted 30MW+ of RA across 4 LSEs
  - Peninsula Clean Energy targeted 10+MW
- RA sourced from distributed solar+storage systems
- Carve out for minimum capacity installed in disadvantaged / low income communities



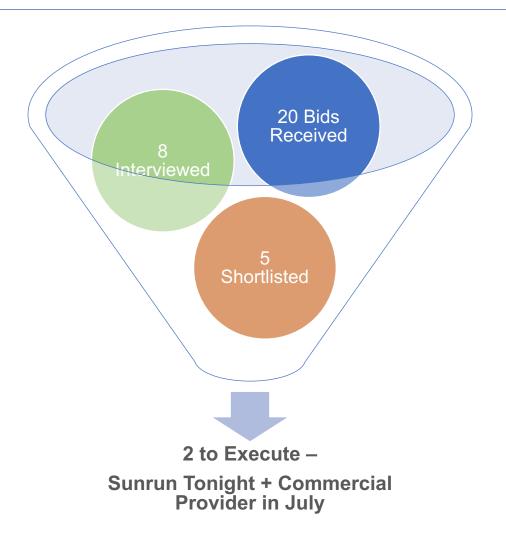








# **Solicitation Summary**



# **About Sunrun, Inc.**

#### Sunrun overview

#### Who We Are

- Formed in 2007 and headquartered in San Francisco, CA, Sunrun pioneered the residential solar-as-a-service product
- Largest residential solar, storage, home energy services company, with more than 250,000 customers
- Sunrun has deployed over 1.6GW of residential solar and currently operates in 23 states, plus DC and Puerto Rico
- In 2017, Sunrun expanded its offering to battery storage (over 6,000 units installed to date) and is the leading residential grid services provider
- In 2019, Sunrun won a bid to provide 20 MW of capacity from home solar and battery systems to ISO New England beginning in 2022 – a first for residential resources

#### Market Coverage Solar service Solar & Brightbox service Save on electricity Value to Little or no upfront cost customer Backup power, no fuel or pollution Bill management Value to the Peak capacity Grid

Resiliency

**Ancillary Services** 

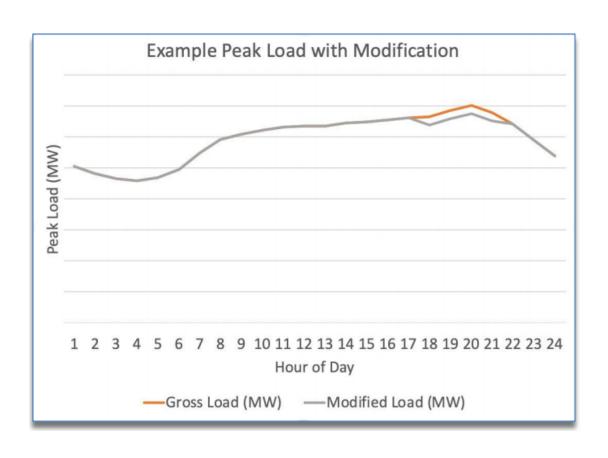
Dispatchable Virtual Power plant

#### **Contract Terms**

| Term  | Description  |
|---|--|
| Capacity Product  | .4 – 5 MW (1.6 – 20 MWh)   |
| Installation Size   | 2 – 11 MW (8 – 44 MWh)   |
| Install Timeline  | Late 2020 – end of 2021; option to increase capacity and extend install timeline to end of 2021 for additional |
| Delivery Term   | January 1, 2022 – December 31, 2032  |
| Customer Type   | Single Family or Multifamily Residential   |
| Islandable  | Able to disconnect and provide backup power in case of power outage  |
| Carve-out for Low-income, DAC, CARE, FERA, Medical Baseline | Minimum 10%  |
| Price   | A small premium to standard RA procurements  |

#### **Capacity Product – Load Modification**

- RA requirements set based on expected peak load
- Distributed energy storage resources reduce peak load by charging during the day and discharging during peak periods
- PCE and Sunrun will agree annually on a dispatch plan
  - Describe when Sunrun will instruct the storage to discharge to meet peak



# **Product Transition Trigger**

- Load modification is a new approach. PCE and other LSEs have been working with regulatory agencies on this mechanism, however there is still some uncertainty
- Contract includes a "Product Transition Trigger" to allow for change in how batteries provide capacity benefits
- Product Transition can be triggered:
  - - If the CEC is accepting less than 80% of the load modification

# **Proxy Demand Response (PDR)**

- PDR is a slightly more established process for distributed resources to provide capacity attributes,
- Designed for demand response rather than energy storage
- Several drawbacks:
  - Process is complex and time consuming
  - Volume of resources that can be counted is lower
  - Results in a higher price

# **Workforce Development**

- Sunrun is leveraging its relationship with GRID Alternatives in the low-income solar space to provide workforce development and training in every installation provided to low-income customers
  - GRID has an Installer Basic Training and has trained more than 17,000 individuals in solar installation since its inception
- Commitment to having San Mateo County residents provide 50% of the work hours associated with construction, operation, and maintenance of the projects

### **Marketing Plan**

- In order to spur customer participation, PCE and Sunrun have developed a Co-Marketing Agreement
  - The Co-Marketing approach will utilize co-branded marketing materials, and various marketing channels through which PCE and Sunrun will reach customers
  - These marketing channels include nonprofit outreach partners, PCE's newsletter, social media, events, and direct mail, et al
- Sunrun will provide customers an upfront incentive to motivate their participation in this program

#### Recommendation

Authorize Chief Executive Officer to execute a Load Modifying Agreement (LMA) for Distributed Resource Adequacy Capacity with Sunrun Inc. and any necessary ancillary documents in an amount not to exceed \$5,500,000 and for a term from January 1, 2022 through December 31, 2031 (Action)

This agreement helps to fulfill several of PCE's strategic goals:

- Design a diverse power portfolio that is 100% carbon-free by 2021; and is 100% carbon-free by 2024 that aligns supply and consumer demand on a 24x7 basis
- Create a minimum of 20MW of new power resources in San Mateo County by 2025

# Regular Agenda

8. Authorize Chief Executive Officer to execute a contract amendment to Agreement with TerraVerde Energy, LLC for Distributed Resource Adequacy Capacity Request for Proposals in an amount not to exceed \$220,000 and for a term through December 31, 2021 (Action)



# Distributed RA Program Admin Contract Amendment

Siobhan Doherty, Director of Power Resources
Peter Levitt, Associate Manager Distributed Resources
June 25, 2020



#### Recommendation

Authorize Chief Executive Officer to execute Amendment 1 to Agreement with TerraVerde Energy, LLC for Distributed Resource Adequacy Capacity Request for Proposals in an amount not to exceed \$220,000 and for a term through December 31, 2021. (Action)



# **Agenda**

- Background
- Amendment Summary
- Consultant Selection
- Recommendation

### **Background**

- January 2020: hired TerraVerde Energy to support staff evaluate responses to the Distributed RA RFP
- Evaluated two potential partners, one that was working with EBCE and TerraVerde
- Chose TerraVerde due to their:
  - Expertise in working on public sector solar+storage programs,
  - Familiarity with Proxy Demand Response, and
  - Deep background on public procurements.



#### **Background**

# Initial Scope of Work to support the evaluation of RFP responses

- Created and completed evaluation matrix;
- Assisted in identifying respondents to interview;
- Organized initial and final interviews including developing questions, attending interviews and following up with interviewees on outstanding questions;
- Advised on identifying respondents to shortlist and select;
- Supported staff through negotiation process.

# Exceeded staff expectations –

- Played an integral role in clarifying our goals for the program and representing these goals to vendors throughout the interview process.
- Provided prompt, valuable feedback to inform the vendor selection process.

# **Amendment Summary**

- The amendment expands the scope of the work by adding three tasks:
  - Task 2: Identify target customers to increase program speed and scale
  - Task 3: Establish & manage an efficient project qualification & program oversight model
  - Task 4: Manage vendor performance & provide actionable reporting to PCE
- Cost: \$200,000 additional, for a total not to exceed \$220,000
- Timeline: Extend term through December 31, 2021



#### **Consultant Selection**

- Reviewed scope of work with TerraVerde and another, similar consultant and received bids from both consulants
- TerraVerde provided a more complete response to the scope of work; the alternative consultant was not able to fulfill the scope that we set out
- Positive experience working with TerraVerde and believe they are best-positioned to support this program

#### **Overview of TerraVerde's Competitive Competencies:**

- Reliable program performance to date, including prompt feedback, high quality analysis, and a very high degree of organization
- High degree of program familiarity
- History of successful public sector procurements
- Internal software capabilities well-suited for DER program customer segmentation



#### Recommendation

Authorize Chief Executive Officer to execute a contract amendment to Agreement with TerraVerde Energy, LLC for Distributed Resource Adequacy Capacity Request for Proposals in an amount not to exceed \$250,000 and for a term through December 31, 2021 (Action)



# Regular Agenda

 Approve Contract with CLEAResult for Building Electrification Program in an amount not to exceed \$3 Million (Action)





# **Existing Buildings Electrification Contracts**



# **Existing Buildings Electrification Plan Summary**

In May 2020, the Board approved a four-year \$6.1 million Existing Building Electrification plan. Initial programs outlined were:

#### 1. Heat Pump Water Heater (HPWH) Program

Gas to HPWH replacement incentives. Combine with BayREN incentives.

#### 2. Low Income Home Upgrade Program

 Turnkey no-cost home upgrades, energy efficiency, and electrification for lowincome residents.

#### 3. Harvest Thermal Technology Pilot

Pilot combined space and water heating system with load shifting therma

## **Heat Pump Water Heater Contract: Request**

**Program**: Heat Pump Water Heater (HPWH) Program

**Request**: Delegate authority to CEO to execute contract with CLEAResult to administer the HPWH program

**Amount**: Up to \$3 million over 4 yrs



# **CLEAResult Contract for HPWH Program**

#### **Overview & Objective**

- Water heater replacement incentives to single family customers
- Foster early market, develop workforce, create jobs

## **Approach**

- Integrated with BayREN Home+ program to layer incentives and streamline customer experience
- PCE incentive \$1,000 1,500/unit (+1,000 from BayREN) & if needed \$1,500/service panel upgrade
- Develop contractor network fed by existing training program

#### **Administrator – CLEAResult**

- National energy program administrator, CA focus, 80+ local Bay Area staff
- Selected by BayREN through public solicitation process
- PCE's EV Ready Infrastructure Program selected partner



# **CLEAResult Contract for HPWH Program**

#### **Contract Scope of work**

- Make enhancements to existing customer & contractor application portal
- Train Home Energy Advisors & participating contractors on benefits of electrification and PCE program
- Review and process applications
- Provide regular reporting and supporting documentation

#### **Budget**

- Total: up to \$3 M over 4 yrs
- \$2.75 M reserved for customer incentives to replace ~1,200 water heaters
- Up to \$250,000 in CLEAResult administration: ~\$25,000 start up fee, ~\$60 fee per application



## **Heat Pump Water Heater Contract: Request**

**Program**: Heat Pump Water Heater (HPWH) Program

**Request**: Delegate authority to CEO to execute contract with CLEAResult to administer the HPWH program

**Amount**: Up to \$3 million over 4 yrs



# Regular Agenda

10. Review Preliminary Integrated Resource Plan (IRP) Results (Discussion)





# Integrated Resource Plan Update

Siobhan Doherty, Director of Power Resources Doug Karpa, Senior Regulatory Analyst June 25, 2020



#### **AGENDA**

- IRP Background
- Reference System Portfolio
- CCA Approach
- Modeling Requirements
- Portfolio Overview
- Initial Results
- Next Steps



#### **PURPOSE**

- 1. Provide Board with background on the 2020 Integrated Resource Planning (IRP) process
- 2. Present preliminary results
- 3. Inform the Board of next steps to approve IRP

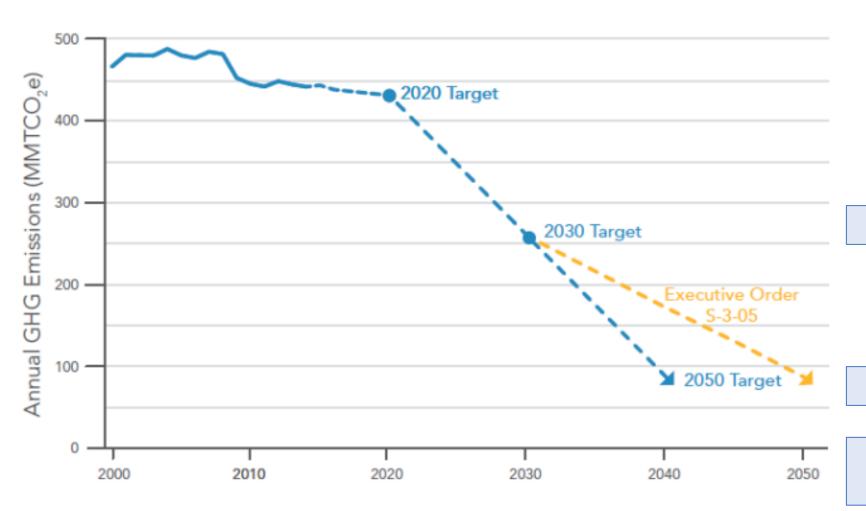


#### BACKGROUND

- This CPUC IRP was mandated by SB350, (de León, Chapter 547, 2015)
- Initial reporting year was 2018; report every other year
- 2020 IRP is due September 1, 2020
- Primary purpose:
  - To provide CPUC staff with the inputs from each LSE to forecast industry-wide procurement and
  - Determine whether load serving entities (LSEs) in CA are meeting GHG and reliability needs for 2030.



#### CA GHG REDUCTION GOALS



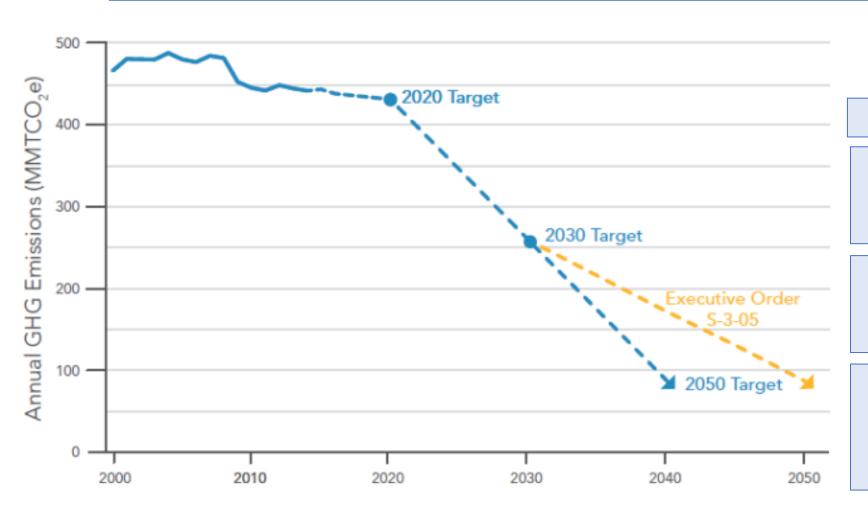
2030: 40% Below 1990 Levels

2050: 80% Below 1990 Levels

SB100: 100% Carbon Free Electricity by 2045



## **ELECTRICITY'S ROLE**



2030: 40% Below 1990 Levels

2030 Statewide Goal: 260 million metric tons (MMT) of CO2 equivalent

2030 Electricity Sector Portion: 46 MMT, 18% of allowable emissions

To meet SB100, electricity sector to target 38 MMT in 2030, 15% of allowable emissions

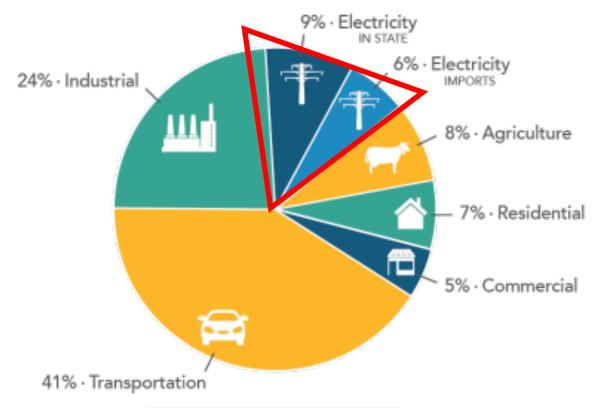


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#### **ELECTRICITY IN CONTEXT**

In 2017, electricity sector contributed ~15% to California's statewide emissions

2030 electric sector target is 30 – 53 MMT (11.5% - 20% of total)



**424.1 MMTCO<sub>2</sub>e** 2017 TOTAL CA EMISSIONS



#### IRP: HOW WE GET THERE

- Integrated Resource Planning (IRP): Ensure electricity sector is on track to meet its portion of California's 2030 GHG targets:
  - 46 MMT scenario to meet 40% reduction from 1990 GHG levels
  - 38 MMT scenario to meet SB100 targets



#### **BIANNUAL PROCESS**

- Odd-numbered years CPUC conducts modeling to:
  - Recommend a GHG target for the electricity sector; and
  - Identify optimal portfolio "Reference System Portfolio (RSP)"

Even-numbered years – LSEs submit IRPs to the CPUC

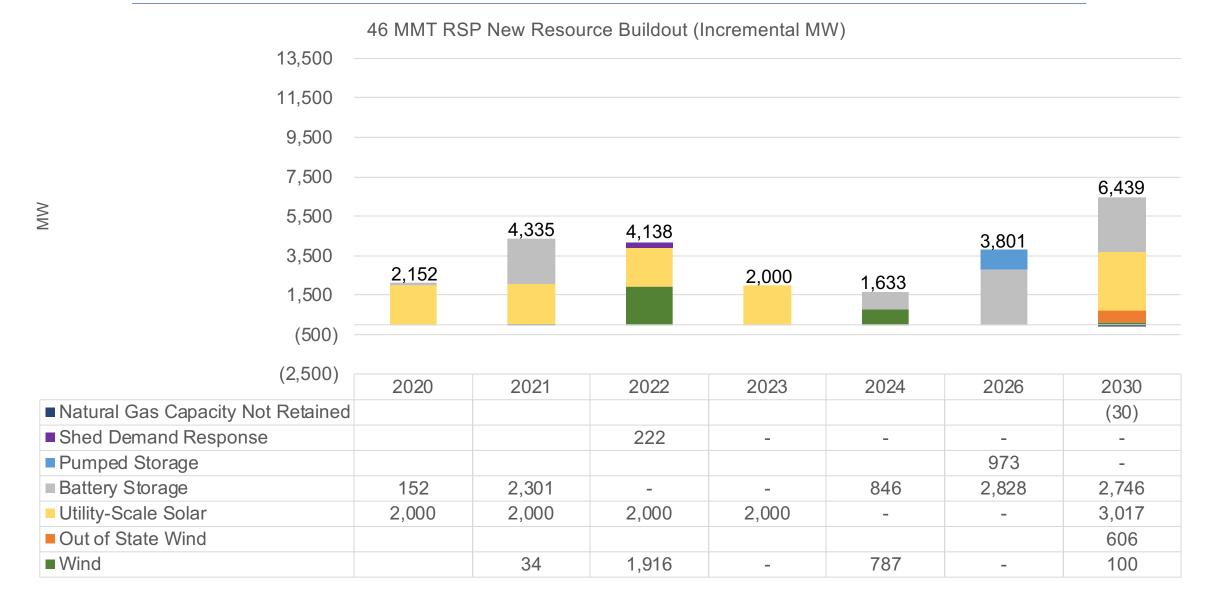
 CPUC aggregates individual IRPs and conducts production cost modeling and a reliability assessment

# REFERENCE SYSTEM PORTFOLIO (RSP)

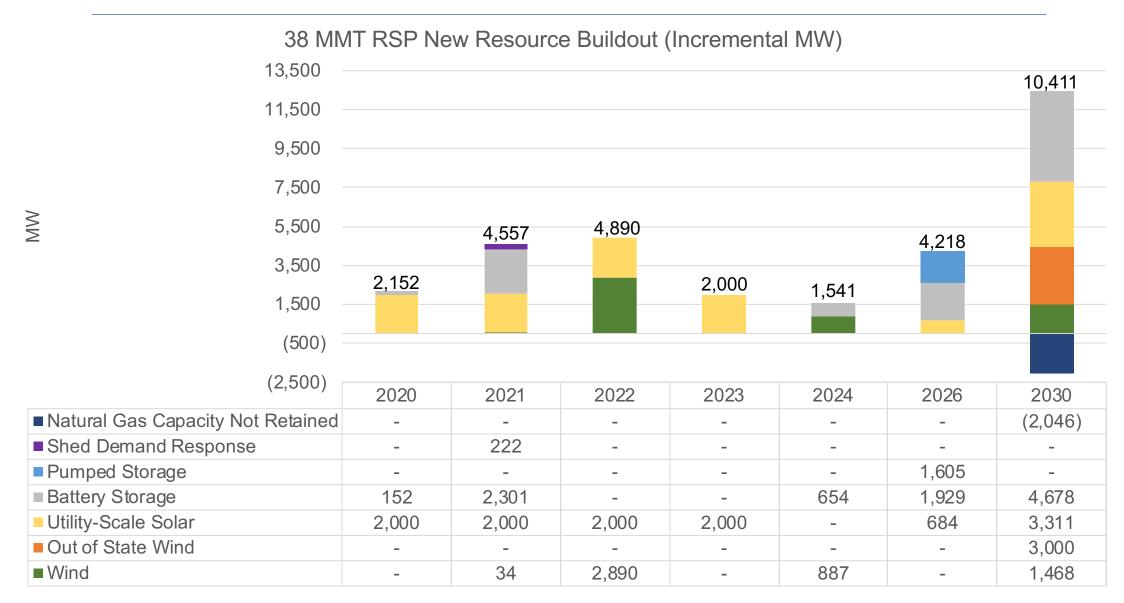
- Identifies the portfolio of resources required for all CPUC-regulated LSEs across CA to
  - meet GHG reduction goals
  - o at least cost
  - while ensuring electric service reliability.



#### RSP for All CA – 46 MMT



#### RSP for All CA – 38 MMT



#### **OUR APPROACH**

- Coordinating with 3 CCAs on modeling for IRP

  - East Bay Community Energy
  - Clean Power Alliance
  - San Jose Community Energy
- Siemens is providing modeling services to PCE and other 3 CCAs









## MODELING REQUIREMENTS

- Use the assigned load forecast<sup>1</sup> from the CEC's 2019 Integrated Energy Policy Report (IEPR).
- Be consistent with the CPUC-adopted Reference System Portfolio:
  - Conforms to the LSE's 2030 GHG Benchmark
  - Uses inputs and assumptions matching those used by CPUC staff to develop the Reference System Portfolio



# **MODELING REQUIREMENTS**

| LSE   | 2030 Load<br>(GWh) | Share of<br>Load in IOU<br>Territory | 2030<br>Emissions<br>Benchmark<br>– 46 MMT | 2030<br>Emissions<br>Benchmark<br>– 38 MMT |            |
|-------|--------------------|--------------------------------------|--|--|------------|
| PCE   | 3,560              | 4.68%                                | 0.729                                      | 0.602                                      |            |
| EBCE  | 6,910              | 9.08%                                | 1.414                                      | 1.168                                      |            |
| SJCE  | 4,449              | 5.85%                                | 0.910                                      | 0.752                                      | Other CCAs |
| CPA   | 11,867             | 13.85%                               | 2.113                                      | 1.746                                      |            |
| PG&E  | 26,777             | 35.2%                                | 5.479                                      | 4.526                                      |            |
| SCE   | 54,393             | 63.5%                                | 9.687                                      | 8.003                                      | IOUs       |
| SDG&E | 5,366              | 29.5%                                | 1.198                                      | 0.990                                      |            |

#### **MODELING CONSTRAINTS**

- The CPUC requires that LSEs use certain specific assumptions in their Conforming Portfolio, including the following:
  - Cost assumptions;
  - Load shape;
  - Energy production profiles;
  - BTM PV, EE, and EV charging profiles;
  - Battery storage dispatch profiles; and
  - Biomass/Geothermal/Hydro dispatch profiles.

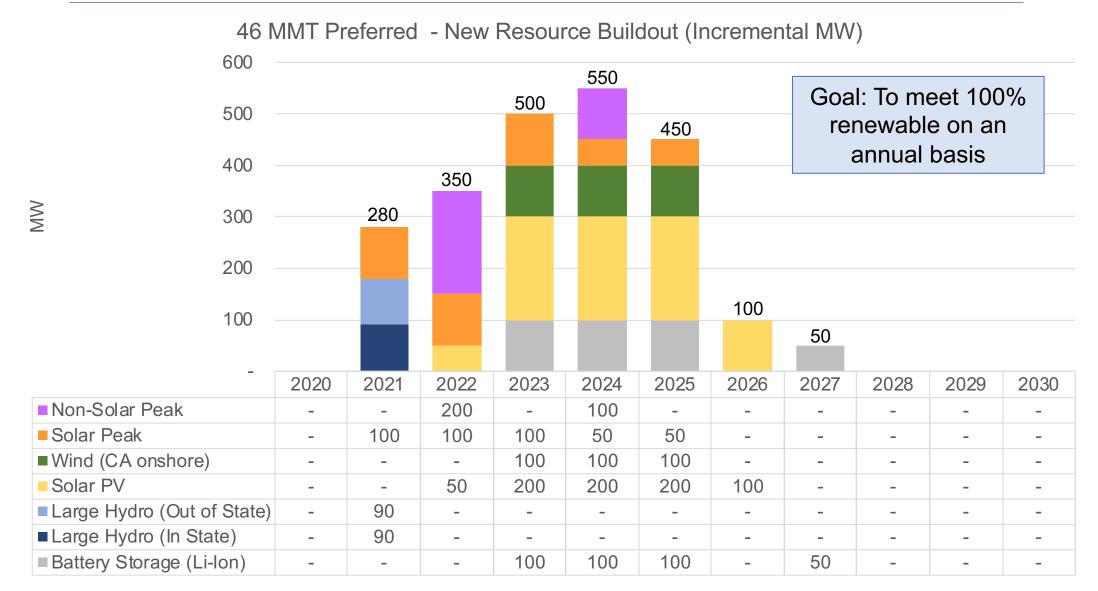


# PORTFOLIO'S IN PCE'S IRP

|   | 46 MMT Preferred Portfolio  | 46 MMT Conforming Portfolio   | 38 MMT Preferred Portfolio   | 38 MMT Conforming Portfolio   |
|---|---|---|--|---|
|   | Net open position is filled with contracts to meet 100% renewable on annual basis | 46 MMT Preferred<br>Portfolio adjusted<br>to meet 46 MMT<br>GHG benchmark | Net open position is filled with contracts to meet 100% renewable on 24/7 accounting | 38 MMT Preferred<br>Portfolio adjusted<br>to meet 38 MMT<br>GHG benchmark |
| Meets GHG<br>Benchmark?                   | <b>√</b>  | <b>√</b>  | <b>✓</b>   | <b>√</b>  |
| Meets 100% RE<br>Goal                     | <b>√</b>  | *   | ✓  | ×   |
| Meets 100% RE<br>Time Coincident<br>Goal? | *   | *   | <b>✓</b>   | *   |



#### **46 MMT PREFERRED - DRAFT**



## SUBMISSION REQUIREMENTS

- 1. Standard LSE Plan written description of IRP, including:
  - Description of modeling process and assumptions
- 2. CPUC Provided Clean System Power Calculator
  - Calculates LSE's Portfolio's expected GHG Emissions
- 3. Resource Data Template
  - Details on current and planned resources to meet LSE's targets

#### **NEXT STEPS**

- Present final scenarios for Approval at July 2020 Board meeting
- Reserve August 2020 Board meeting for any follow-up questions



# Regular Agenda

11. Board Members' Reports (Discussion)



# Regular Agenda

Adjourn

