

### **Solicitation Overview**

#### **Goals & Objectives**

- Secure a portfolio of contracts to provide EBCE customers with affordable renewable and clean energy sources
- Meet a significant percent of SB350 long-term contracting requirements, equal to 65% of RPS obligations
- Meet IRP Near- and Mid-Term Resource Adequacy Reliability Procurement mandates
- Create new renewable energy projects to deliver PCC1 RECs
- Contract low-cost energy hedges to complement existing portfolio

#### **Project Characteristics**

#### **Facilities:**

- <u>Location</u>: Projects may be within or outside of California. All energy must be deliverable to CAISO.
- <u>Construction Status</u>: Energy and related products may come from new or existing resources.

#### **Capacity:**

- Minimum Contract Capacity: 10 MW
- Maximum Contract Capacity: 200 MW

#### **Delivery Date:**

 Energy and RPS attribute delivery must be within calendar years 2021, 2022, 2023, or 2024, with a preference for projects that begin delivery earlier within this window.

#### **Contract Duration:**

5-20 year durations

#### **Technology:**

Renewables, Storage, and Large Hydro

#### **Actions**

- Issued a broad, open, competitive solicitation to ensure wide array of opportunities considered
- Evaluated exhaustive combinations of projects to achieve desired volume targets, while optimizing project risk, location, workforce development, economics, and other characteristics
- Encouraged RFO participants to be creative and provide proposal variations on individual projects and include battery storage



# **Participation**

- Robust project offering with over 70 unique project sites and over 400 contract variations
- All 6 products that were solicited were offered
- Offers included solar, wind, geothermal, hydro, and storage
- Projects based in 6 different states, predominantly CA
  - \*Only 2 projects in EBCE service territory. 1 project is speculative without site control, the other other project in Tracy is shortlisted.



### **Evaluation Process**

- Evaluation Rubric scored 3 areas:
  - Counterparty Execution, Offer Competitiveness, and Project Development Status
  - Multiple items under each area
- Two reviewers were assigned to each project.
- Staff reviewed all submitted information and provided scores for all categories except for Term Sheet Markups and NPV.
  - Each item has 10 point max. at its own weighting.
  - Term Sheet Markups were scored by one assigned reviewer.
  - NPV scores were directly incorporated into overall project score with a weighting of 45%.
    - The Net Present Value was calculated based on simulations on 3 different forward curves
    - For each forward curve we took a weighted average of the P5 (50%), P50 (25%), and P95 (25%) and then took a simple average across the 3 curves
    - We normalized this number on a \$/MW basis and the projects were then assigned a 0-10 score based on the NPV distribution
- Scoring and rubric were consistent with the selection process for the 2018 California Renewables RFP.



## **Projects Proposed for Execution**

Seeking approval for one contract: one fixed price, shaped energy RPS Power Purchase Agreement (PPA) submitted into EBCE's 2020 Renewable Energy & Storage Resource RFO

- Geothermal PPA, facility sited in Nevada. 15-year term with option to extend to 20 years. Structured as a fixed price energy agreement. Developed by Fervo Energy. Expected to be operational in May, 2026.
  - Project will meet CPUC mandate for "long lead time resources", as required under CPUC
    D.21-06-035



### **Fervo Project Details**



- Selected via the 2020 Renewable Energy & Storage RFO
- 40 MW geothermal project based in Churchill County, Nevada
  - Total project size is anticipated to be 115 MW
- 15-year contract; EBCE has option but not obligation to extend to 20 years
- Expected Commercial Operation Date is May 1, 2026
- Project has an executed facility study and system interconnection agreements and site control.
- Fervo will make a financial or time contribution to EBCE's Community Investment fund as part of this contract.
- Committed toward utilizing union labor where possible and prevailing wages in Nevada.
- The contracting entity under Fervo is FEC Nevada I, LLC.



## **Fervo Company Overview**



- Fervo Energy is a developer of geothermal energy resources.
- Founded in 2017, Fervo's team is comprised of reservoir engineers, geophysicists, data scientist, and renewable power developers.
- Fervo has combined advanced drilling techniques, fiber-optic sensing, and cloud-based analytics to unlock new geothermal resources.
- FEC Nevada I represents the first resource Fervo will develop and operationalize, however the Fervo team has developed over 1 GW of generation projects including the Hudson Ranch Geothermal Plant, completed in 2012.



# **RPS Portfolio Summary**

Contracted RPS Portfolio:							
Developer	Technology	Nameplate MW	Storage MW	County	Actual or Expected COD	Term	Settlement
Clearway Energy Group	Solar	112	n/a	Kern	12/22/2020	15	DLAP
Salka Energy Group	Wind	57.5	n/a	Alameda	6/30/2021	20	Pnode
Pattern Energy	Wind	100	n/a	Torrance & Guadalupe, NM	12/22/2021	10	Pnode
Idemitsu Solar	Solar	55.8	n/a	Tulare	2/1/2022	15	DLAP
EDP Renewables North America	Solar+Storage	100	30MW/120MWh	Fresno	12/31/2022	20	Pnide
sPower / AES	Solar+Storage	125	80MW/160MWh	Kern	12/31/2022	20	Pnode
Terra-Gen	Solar+Virtual Storage	100	TBD	Kern	12/31/2022	15	Pnode
Intersect	Solar+Storage	125	125MW	Riverside	1/1/2024	15	Index



### **Next Steps**

- Complete negotiations of Fervo contract; execute by early-February
- Assess projects as they hit key milestones and mature further.
- Update filing to CPUC on status of 2023-2026 Medi-Term Reliability due August 1, 2022.
- Release next RFO for Long-Term Resources in Q1 2022.

