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Filer:	Raquel Kravitz
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Southern California Edison Preferred Resource/Energy Storage Procurement Update

**Joint Agency Workshop on Energy Reliability in Southern California
May 23, 2019**



Purpose of Presentation

- ◆ Provide details of SCE's 2018 LCR RFP final selection process and results
- ◆ Provide an overview of SCE's Preferred Resource and Energy Storage procurement

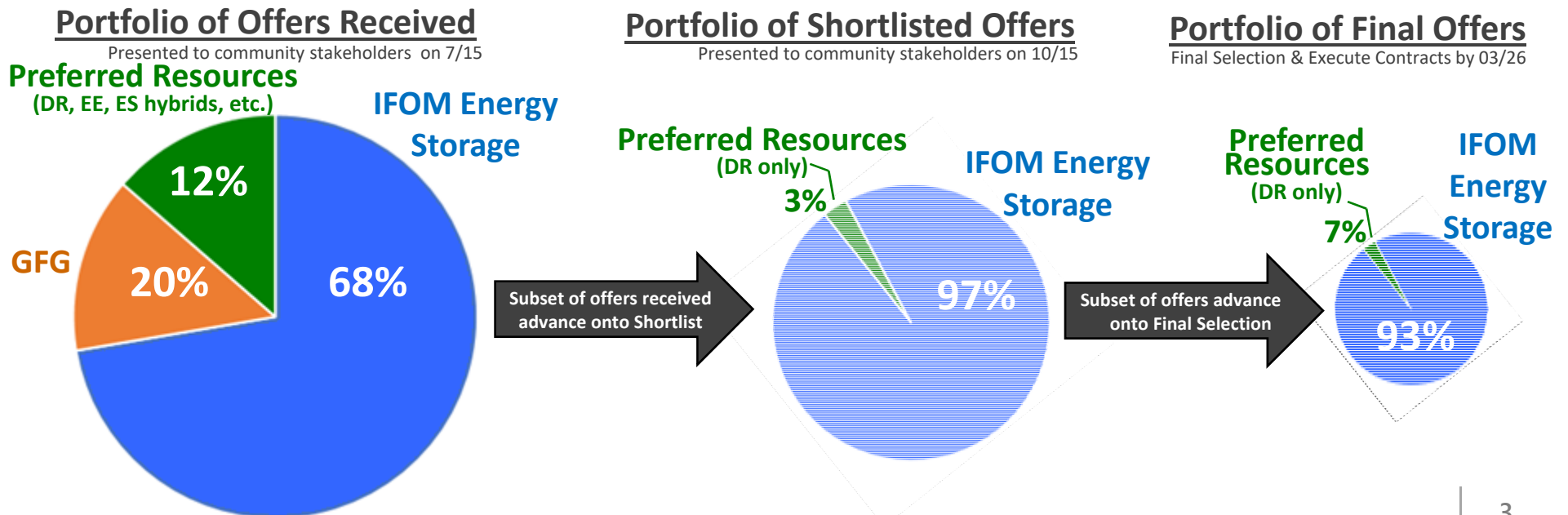
2019 LCR RFP Purpose and Final Portfolio

◆ Purpose of RFP

- To solicit proposals from developers of energy resources to meet LCR needs in the Moorpark sub-area (i.e., the Goleta and Santa Clara electric systems)
- Additional Objective: To seek offers that would enhance resiliency in the Goleta system

◆ SCE’s Final Selection portfolio represents offers that are the least cost to customers and are sufficiently viable to meet the LCR requirements (i.e., to be online by 6/1/2021)

- Final Selection Portfolio Resource Types – contain **195 MW of battery-based energy storage resources**
 - SCE received an immaterial quantity of renewable offers; further, the uncompetitive economics of these offers (per the least-cost valuation) did not justify advancing these offers onto the shortlist
 - GFG resources did not make the shortlist as a result of the CPUC-approved LCBF evaluation and selection methodology



* Details on the Goleta resiliency area and the N-2 charging constraint included in the back-up on slides 11 and 12.

2019 LCR RFP Project Portfolio

- ◆ The **195 MW** of battery-based energy storage resources are comprised of **seven projects**, electrically connect through Santa Clara and Goleta substations:

Seller	Project	Resource Type	City	Capacity (MW)	Commercial Online Date
AltaGas	Goleta	ES-RA Only	Goleta	40	December 2020
Enel	Hollister	ES-RA Only	Goleta	10	March 2021
Ormat	Vallecito	ES-RA Only	Carpinteria	10	December 2020
Strata	Saticoy	ES-RA Only	Oxnard	100	December 2020
Swell	SC/G	BTM-DR	Santa Barbara & Ventura Counties	14	January 2021
Able Grid	Silverstrand	ES-RA Only	Camarillo	11	March 2021
E.ON	Painter	ES-RA Only	Carpinteria	10	March 2021

Recap of SCE Preferred Resource and Energy Storage Procurement

- ◆ Local Capacity Requirements (2013/2018)
 - ◆ Reliability procurement in specific sub-areas of interest (e.g. West LA Basin, Moorpark, Santa Clara, etc.)
- ◆ Preferred Resources Pilot
 - ◆ Procurement of DERs to meet increasing load in central Orange County
- ◆ Aliso Canyon Energy Storage (ACES) 1 - 2
 - ◆ Energy Storage to help address operational limitations caused by partial shutdown of Aliso Canyon Natural Gas storage facility
- ◆ Renewable Portfolio Standard/REC Sales
 - ◆ Procurement of Eligible Renewable Resources to meet SCE's RPS compliance targets
- ◆ Distribution Investment Deferral Framework (DIDF / IDER)
 - ◆ Procurement of small Distributed Energy Resources (DERs) to defer traditional distribution infrastructure projects
- ◆ Renewable Tariffs (Re-MAT, BioMAT, GTSR, etc.)
 - ◆ Renewable procurement to meet specific policy goals

Though many programs are open to all technology types, energy storage has been predominant

SCE Energy Storage Procurement:

Procurement Activity*	Transmission Capacity (MW)	Distribution Capacity (MW)	Customer Capacity (MW)
Moorpark LCR RFP (2019)	0	100	0
ACES 2 RFO	0	81	14
LCR RFO (W LA Basin) (2013)	100	0	154.8
IDER (2018)	0	9.5	0
2014 / 2016 Energy Storage RFO	0	11.3	0
PRP 2 RFO	0	50	5
2016 ACES RFO	0	22	0
2016 ACES DBT RFP (Mira Loma)	0	20	0
SCE Peaker EGT Projects	20	0	0
T&D Demos (TSP, DESI)	0	20.3	0.2
Customer Programs (SGIP, PLS)	0	0	114.3

Roughly 722 MW Procured

* Moorpark LCR RFP and ACES 2 RFO still pending commission approval, subject to change based on contract performance

Back-up

Overview of the LCR and Resiliency Areas

