

DOCKETED

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Encina Decommissioning Status, Carlsbad Energy Center and Preferred Resources Procurement Update

*to the California Energy Commission
by David Thai, Origination Analytics Manager
on May 13, 2019*



Encina Power Plant Decommissioning

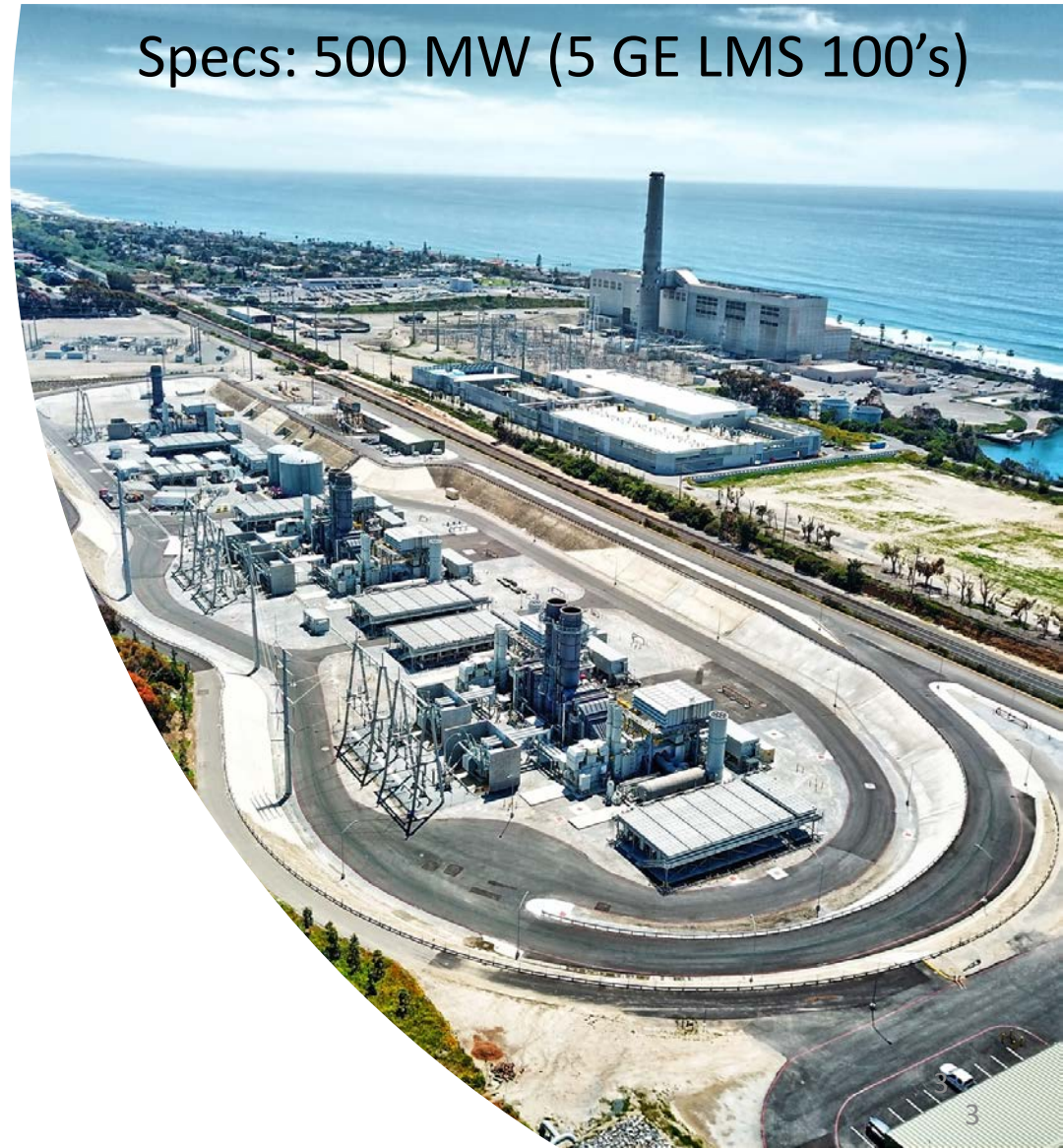
- **October 2010:** California State Water Resources Control Board (SWRCB) Once Through Cooling (OTC) Policy Approved
 - Requires steam boiler power plants like Encina to reduce impacts due to cooling water intake to OTC Policy specific levels or cease operations
 - December 31, 2017 – Encina’s original OTC Policy compliance due date
- **August 15, 2017:** SWRCB approves extension to OTC Policy compliance date to December 31, 2018 to address delay in Carlsbad Energy Center commercial online date
- **December 11, 2018:** Encina retires, ahead of the December 31, 2018 OTC Compliance deadline
- According to NRG, the decommissioning has commenced
- **Q4 2019:** Abatement and demolition activities begin
- **Q4 2021:** Demolition targeted completion

Carlsbad Energy Center Update

Carlsbad Energy Center

- **May 21, 2015**
CPUC Approved
500 MW Carlsbad PPTA
- **January 30, 2017**
CPUC Decision Final
& Non-appealable
- **December 12, 2018**
Commercial Operation

Specs: 500 MW (5 GE LMS 100's)



Preferred Resources Procurement

2016 Preferred Resources LCR RFO

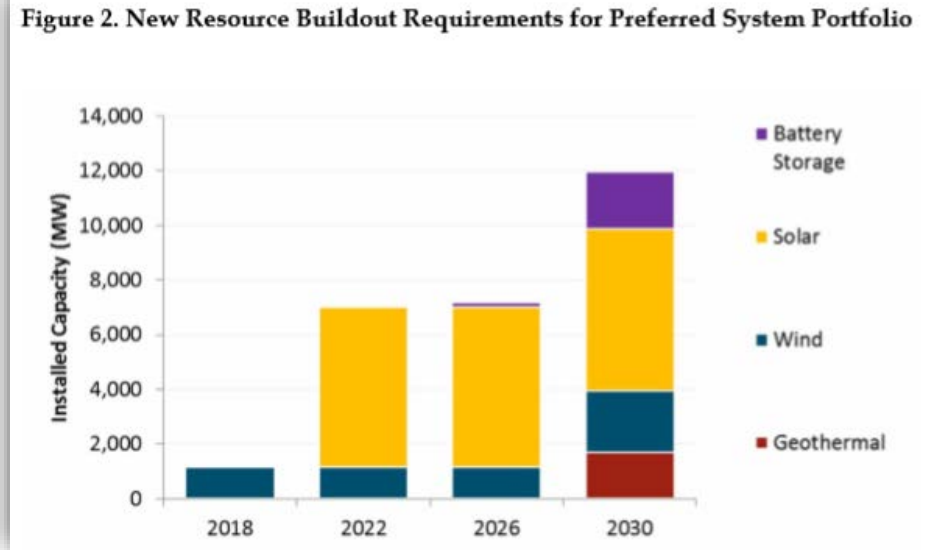
- A.17-04-017 – Seeking approval of three third-party energy storage resources, two utility-owned energy storage resources, and one demand response resource. The CPUC issued a proposed decision April 25, 2018 approving all contracts.

Resource	Expected Online Date	Capacity (MW)	Resource Type
Fallbrook BESS	March 31, 2021	40	Li-ion BES
Miramar BESS	December 31, 2019	30	Li-ion BES
Enel Green Power NA	December 31, 2021	3	Li-ion BES
Advanced Microgrid Solutions	December 1, 2019	4	Li-ion BES
Powin Energy	June 30, 2021	6.5	Li-ion BES
OhmConnect	January 1, 2018	4.5	Demand Response
Total		88	

Integrated Resource Plan (IRP)

Integrated Resource Plan

Produce an optimized electric resource portfolio to achieve the state’s goal of a decarbonized electric system that also functions reliably and at least cost to ratepayers.



GHG Targets:

Statewide: 42 Million Metric Tons

SDG&E: 2.959 Million Metric Tons

12,000 MW needed by 2030

(Wind, Solar, Geothermal, Battery Storage)



Questions?

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