

**DOCKETED**

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## IEPR Workshop – Transmission Interconnection



May 4, 2023

# Process

SDG&E transmission-level requests are administered through the CAISO interconnection process<sup>1</sup>



## Transmission-level Interconnection Study Process

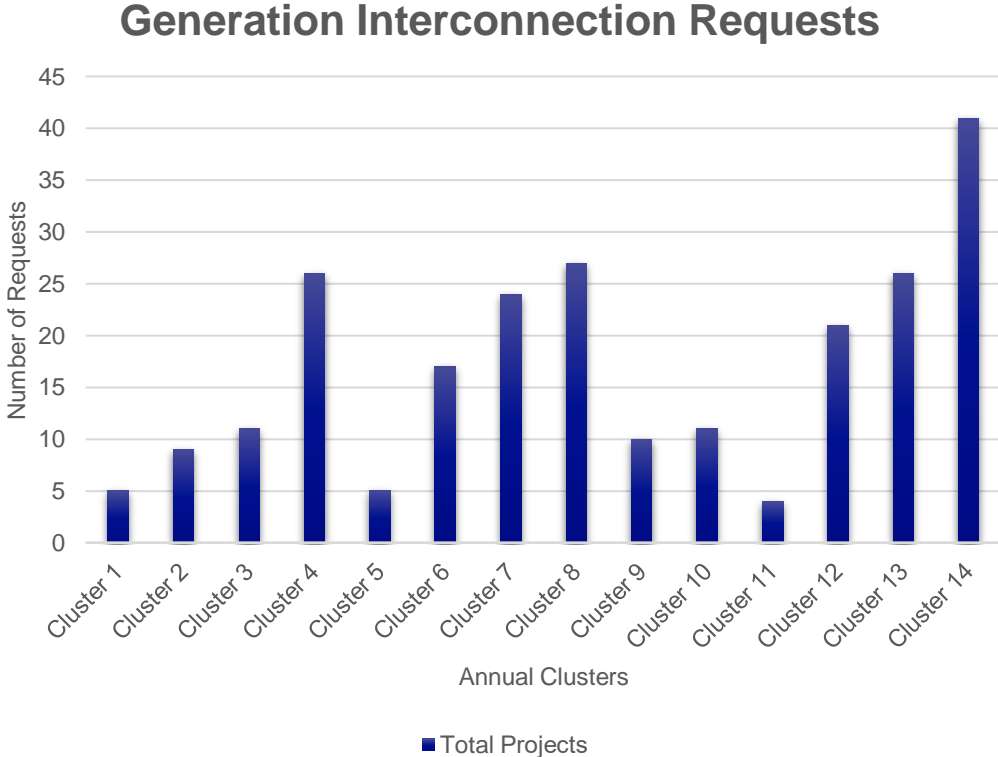
- Annual process that culminates in a three-party interconnection agreement between the Interconnection Customer (IC), the CAISO, and SDG&E
- Consists of two study phases (Phase I and Phase II)
- CAISO determines Resource Adequacy (RA) eligibility of new resources; SDG&E determines reliability upgrades
- SDG&E establishes cost estimates of needed system upgrades and collects financial postings required for construction

<sup>1</sup>) CAISO interconnection process is ISOV by FERC, complies with NERC reliability standards, and gets enhanced through a public stakeholder process.

# Trends

*SDG&E continues to work collaboratively with customers and the CAISO to avoid delays and maintain a high degree of service*

- Energy Storage and Hybrid projects have significantly increased in recent years representing ~80% of active<sup>1</sup> projects
- 69 projects in the CAISO queue for SDG&E (~18 GW)
- Cluster 14 has been the largest with 39 projects (~11 GW); 23 progressed to Phase II (41% withdrew<sup>2</sup>)
- SDG&E is currently on track to build upgrades needed to support interconnections



1) Active projects represent projects that are in the queue, not withdrawn, and have not achieved commercial operation.  
2) Historically SDG&E has seen an average withdrawal rate around 60-70% after Phase I and Phase II.

# Opportunities



*Key opportunities exist in queue refinement and streamlining transmission permitting to expand access and RA*



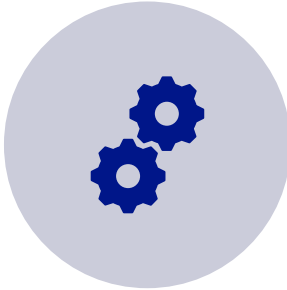
Permitting reforms needed to accelerate the energy transition



Supply chain issues affecting ICs



Timely receipt of IC's project schedules affecting coordination with ICs



Overheated queue taking away resources from projects that are needed for reliability