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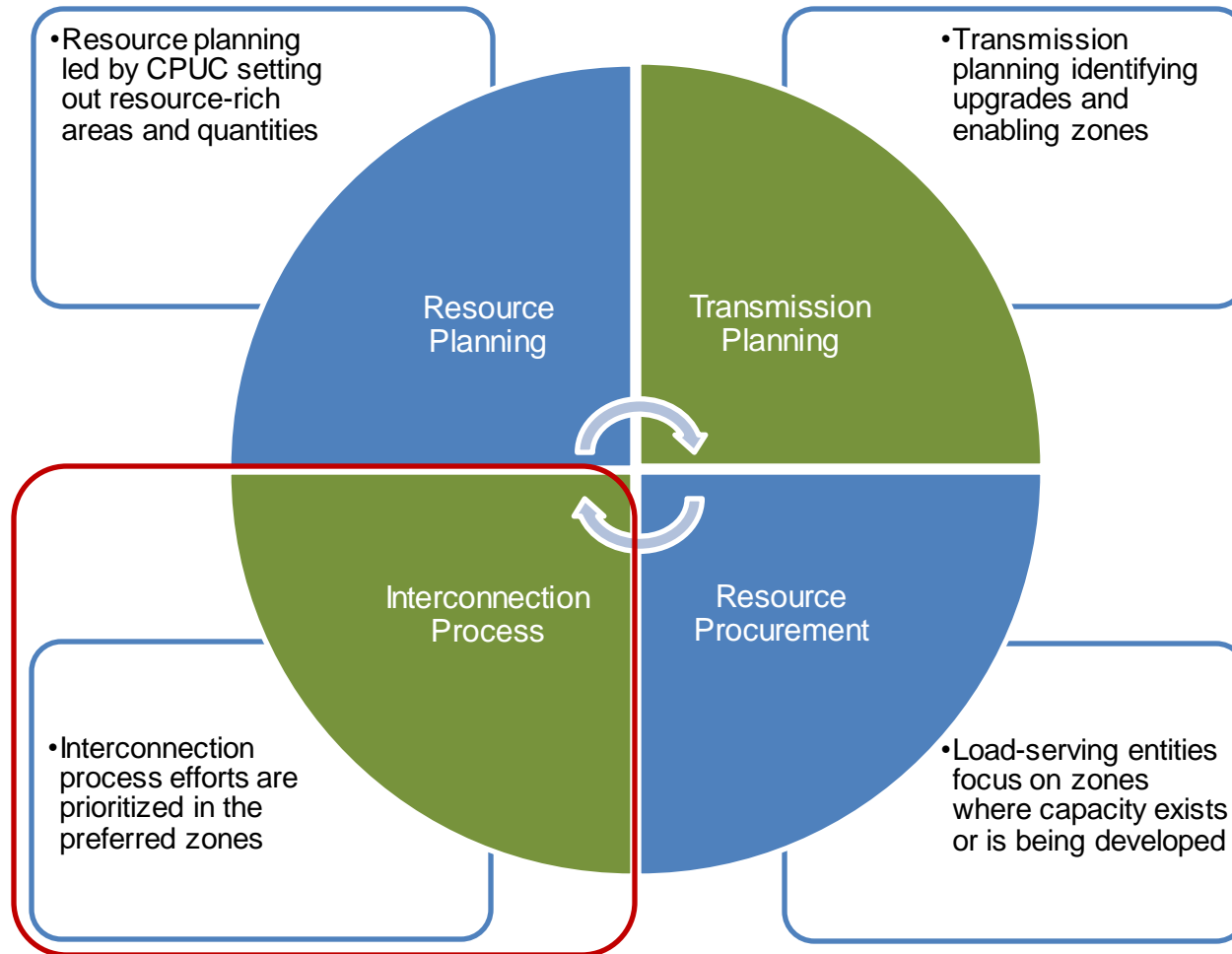
Interconnection Processes and Ongoing Improvements

Neil Millar, Vice President, Infrastructure and Operations Planning

CEC IEPR Commissioner Workshop on Clean Energy Interconnection – Bulk Grid

May 4, 2023

The ISO is developing transformative changes to its interconnection process, based on the strategic direction established with the CPUC and CEC



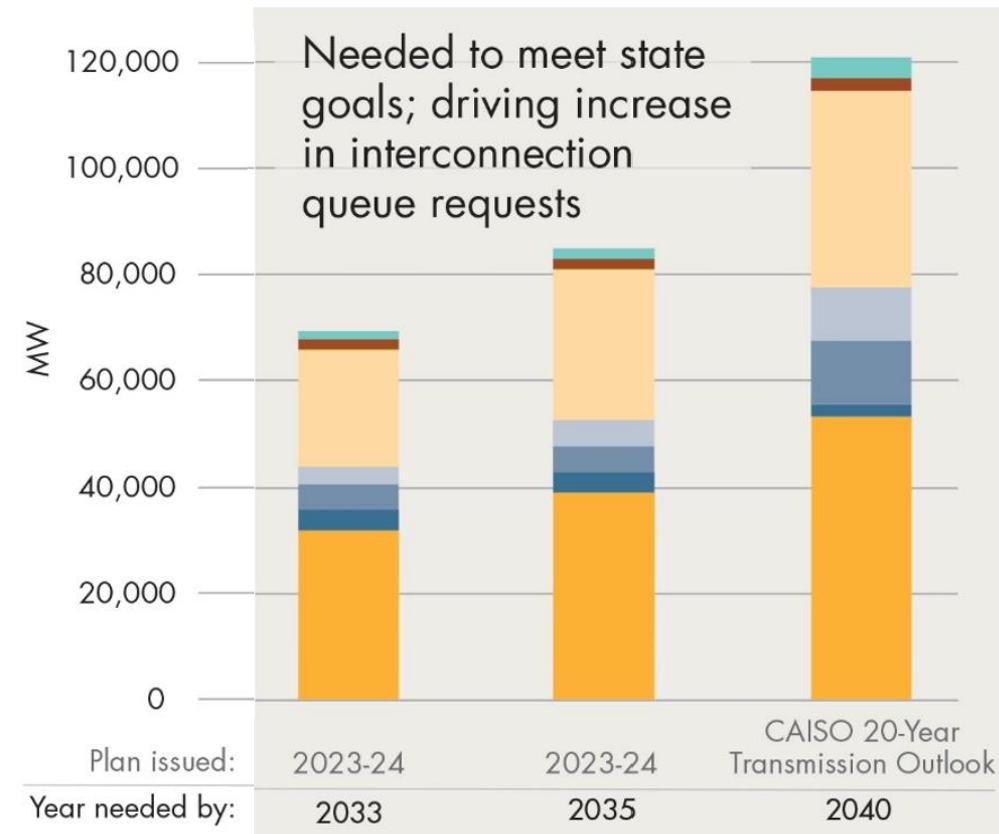
The strategic direction was established in the CPUC/CEC/ISO Memorandum of Understanding signed in December, 2022 to:

- Tighten the linkage between resource and transmission planning, procurement direction, and the ISO interconnection process
- Create formal linkage between CEC SB 100/IEPR activities and the ISO and CPUC processes
- Reaffirm the existing state agency and single forecast set coordination

The need for accelerating new resource interconnections has been reinforced by the resource plans identified by the state agencies

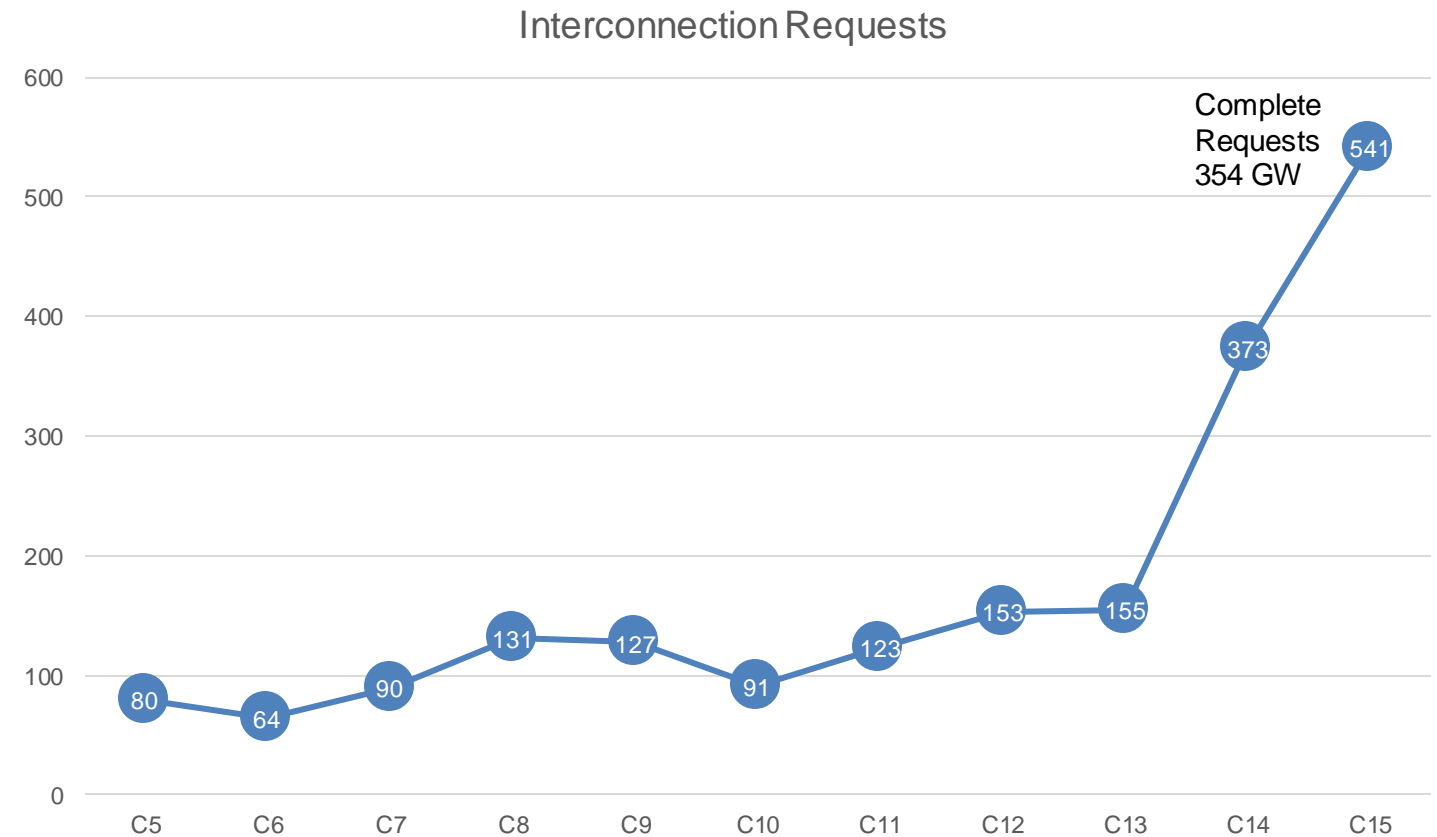
- 3,698 MW of *installed capacity* was added to the ISO grid in 2021
- 4,642 MW was added in 2022
- Up to 7,648 MW online in 2023 or scheduled to be online by September 1
- And this needs to ramp up to 7,000 per year to meet the trajectory to meeting the state's clean energy goals

Resource Requirements provided by State Agency Resource Plans (2023-2024 Plan)



Process reform is critical to focus planning and engineering resources on the viable areas where transmission is being proactively developed

- The ISO's interconnection process has been overwhelmed with interconnection requests, greatly surpassing requirements and many in less favored areas
- Studying these volumes is inefficient and provides less meaningful study results
- Cluster 15 will add to the approximately 180 GW currently in the queue



Addressing these challenges requires transformational change and collaboration across the entire spectrum of planning, procurement and resource and transmission development processes

- We need tighter linkages between resource planning, transmission planning, interconnection processes and procurement processes
- Transmission project execution – including streamlined permitting processes - is critical
- This includes reviewing all existing processes to maximize new resource interconnection efficiently, cost-effectively and reliably