



Transmission Planning and Offshore Wind Interconnection

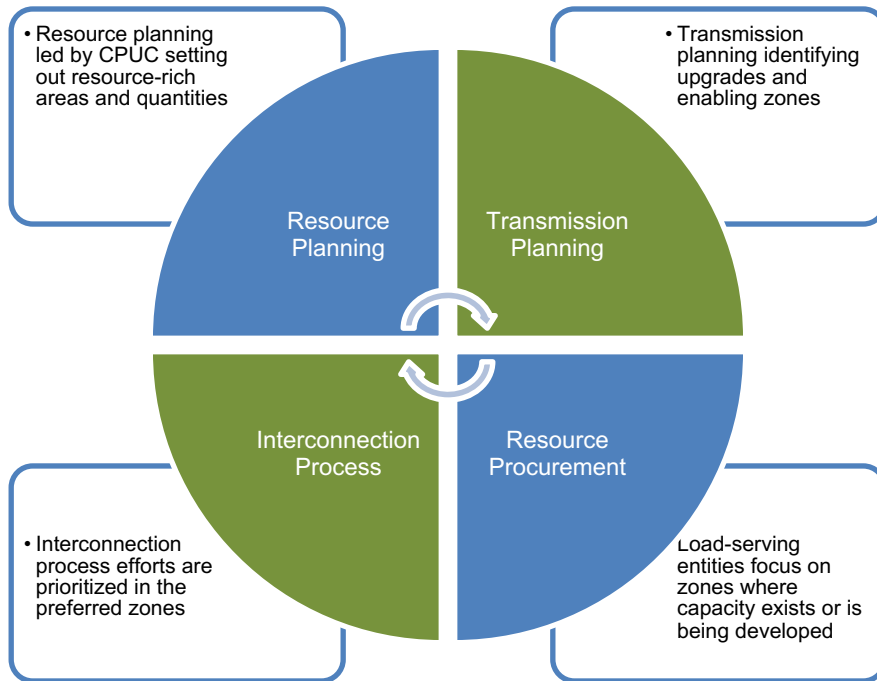
Jeff Billinton

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May 22, 2024

Diablo Canyon Decommissioning Engagement Panel Meeting

Transmission Planning and Generation Interconnection are two of four fundamental and interwoven processes:



The CPUC/CEC/ISO Memorandum of Understanding signed in December, 2022 sets the strategic direction for process improvements to:

- Tighten the linkage between planning, procurement direction, and the ISO interconnection process to the greatest extent possible.
- 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
- Update references to current processes and set direction to updating process documentation

Offshore Wind Resources – comparison between the 2045 Transmission Outlook and recent annual TPP

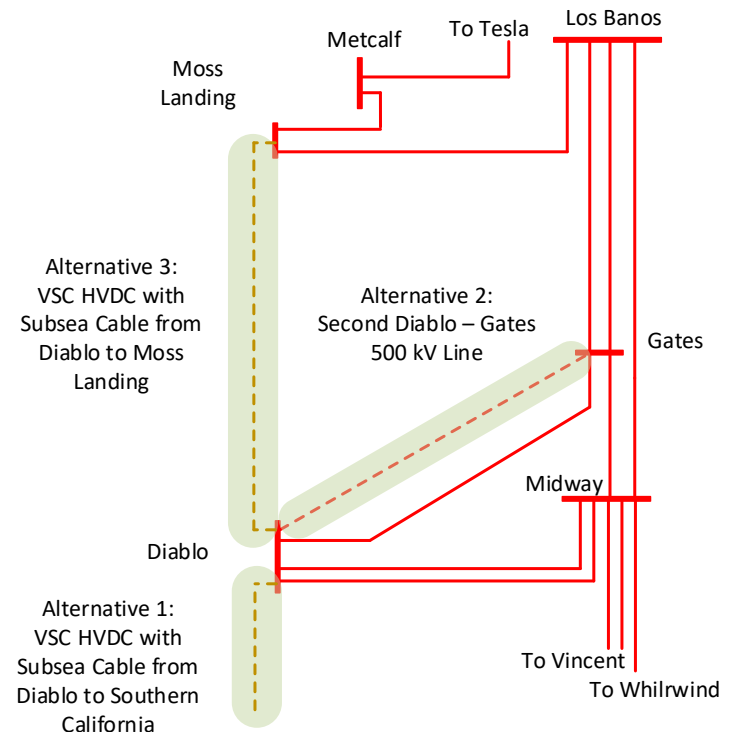
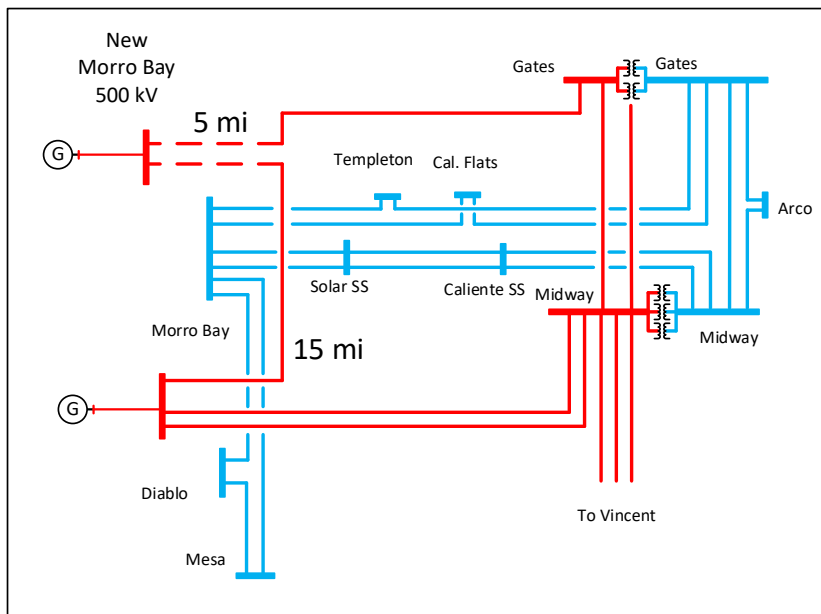
	2022-2023 TPP		2023-2024 TPP		2024-2025 TPP		20-Year Transmission Outlook	
	Base Portfolio	Sensitivity Portfolio	Base Portfolio	Sensitivity Portfolio	Base (2034)	Base (2039)	May 2022	May 2024 Update
Morrow Bay Call Area	1588	3100	3100	5355	2924	2924	6000 ¹	5400
Humboldt Call Area	120	1607	1607	2600	931	1607	4000 ²	2700
Del Norte Area	-	-	-	3445				7000
Cape Mendocino Area	-	-	-	2000				4900
Total OSW	1708	4707	4707	13400	3855	4531	10000	20000

1. Central Coast
2. North Coast

- The ISO recommends for approval transmission projects that are found needed to meet the needs of the base portfolio

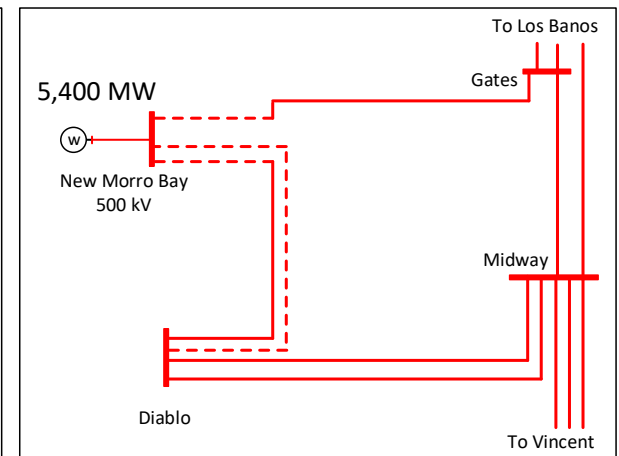
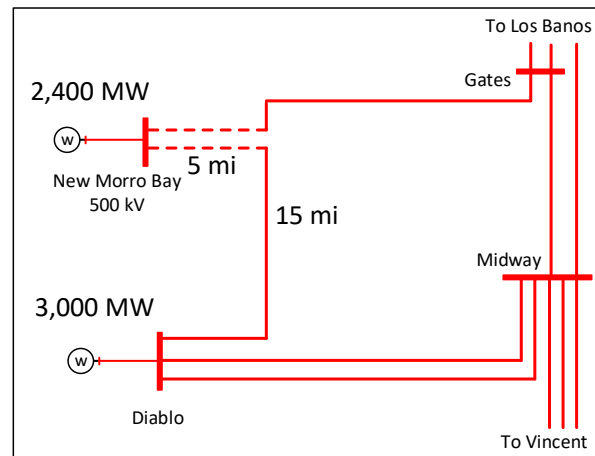
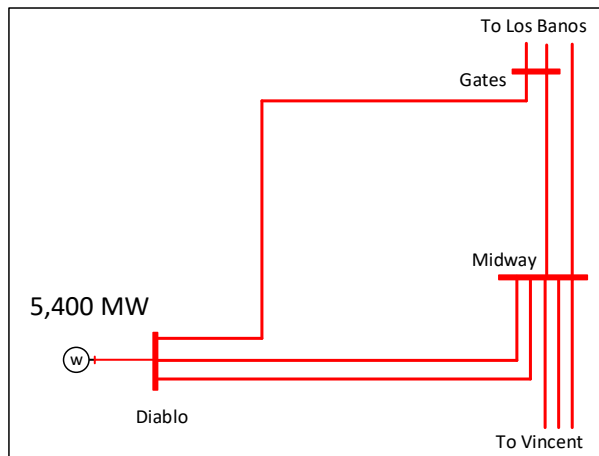
Central Coast Offshore Wind Interconnection

- In the 2021-2022 Transmission Plan it was identified that up to 5.3 GW of generation could be integrated into the 500 kV system in Morro Bay / Diablo area.
- Depending on the status of the DCPP and the total generation in the area, a new 500 kV substation and further system enhancements might be required in the area to integrate the OSW in Central Coast in 20-year outlook (5,400 MW), sensitivity portfolio (3,355 MW) and base portfolio (3,100 MW).



Central Coast Offshore Wind Interconnection

- 5,400 MW of offshore wind is mapped to Diablo or proposed Morro Bay 500 kV substations.
- With the retirement of Diablo Canyon Nuclear Power Plant, three potential alternatives to interconnect the 5,400 MW OSW in Central Coast could be considered



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