DOCKETED	
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Item 9: Diablo Canyon Power Plant Extension – CEC Analysis of Need to Support Reliability

February 28, 2023 Business Meeting

David Erne, Deputy Director Energy Assessments Division



SB 846 Requirements

• By March 2

- Evaluate 2024 2030 forecasts for potential reliability deficiencies if Diablo Canyon Power Plant (DCPP) is not extended
- Make a determination of whether extending operations is prudent to ensure reliability
- By September 30
 - Compare costs of extending DCPP to a portfolio of other resources



Image – PG&E





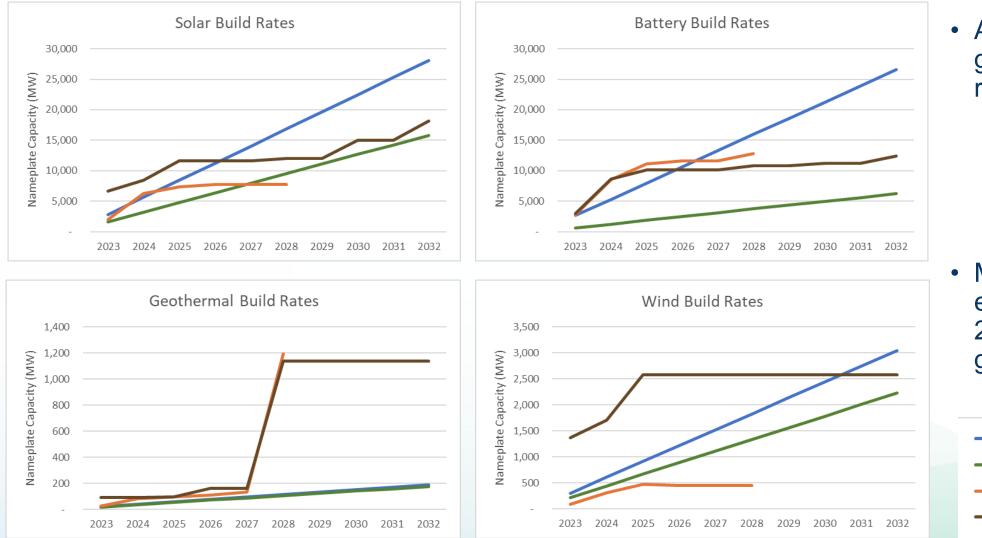
-2019 -2020 -2021 -2022



- Recent years
 - Generally higher temperatures
- Truncate historical record
 - Not much change to normal peaks
 - Extreme peaks are becoming hotter
 - Heat waves are becoming longer
- September 6, 2023
 - 1-in-14 event based on 20-year weather history
 - 1-in-27 based on 30-year weather history



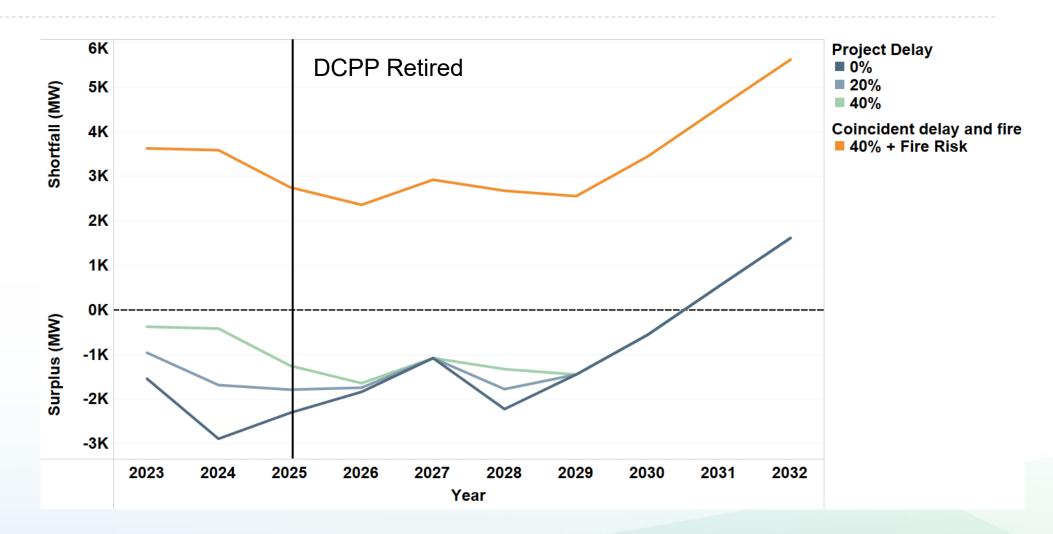
Unprecedented Resource Build Rates



- Average build rates are generally insufficient to reach:
 - Procurement order before the end of the order
 - Preferred System
 Plan before 2032
- Maximum build will not exceed all builds by 2027, except geothermal

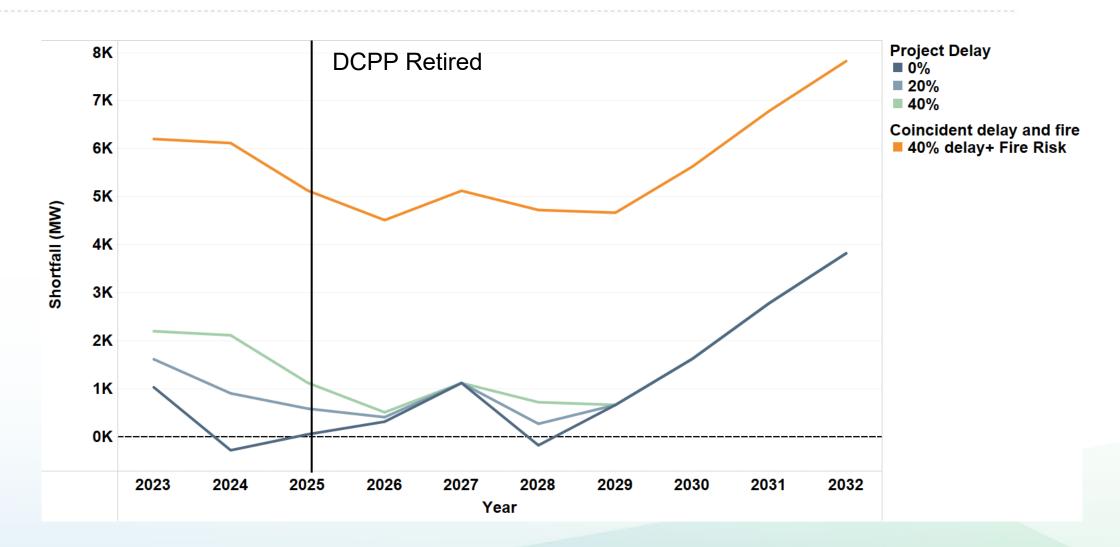


Resource Adequacy Planning Standard

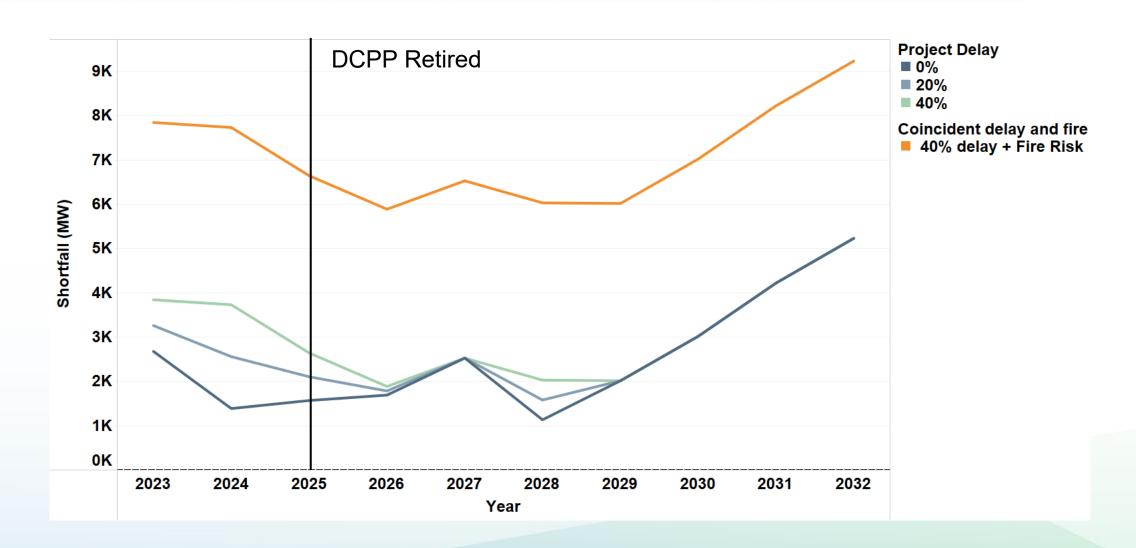


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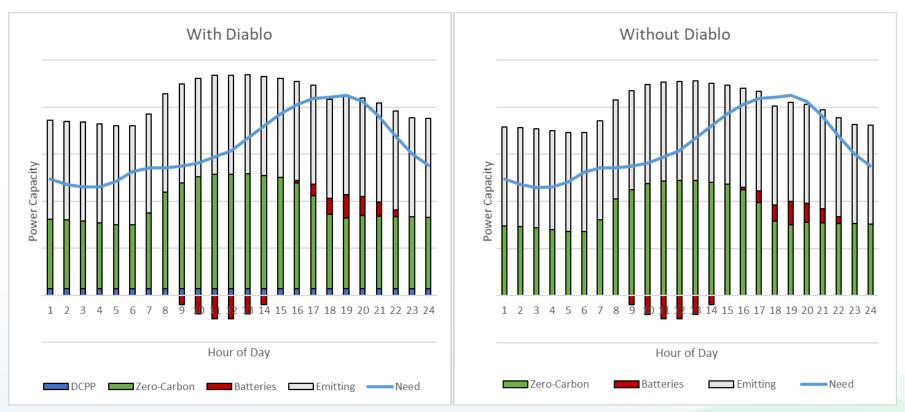




- Current authorized procurement meets planning standards in near term
- Uncertainties/Risks
 - Build rate is unprecedented and with risks
 - Climate change causing greater weather variability more extreme events



• Maintains availability of a low carbon, firm resource



Note: Figures are for illustrative purposes only. Diablo Canyon Power Plant's power capacity is approximately to scale with the total power capacity of the system.



 Approve the proposed resolution adopting the report and determination that it is prudent to pursue extension of the operation of Diablo Canyon Power Plant

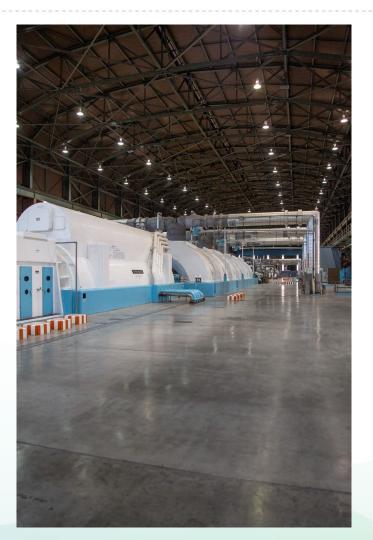


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