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Accelerating Distribution Interconnection and Energization

August 11, 2025

Bill Peter

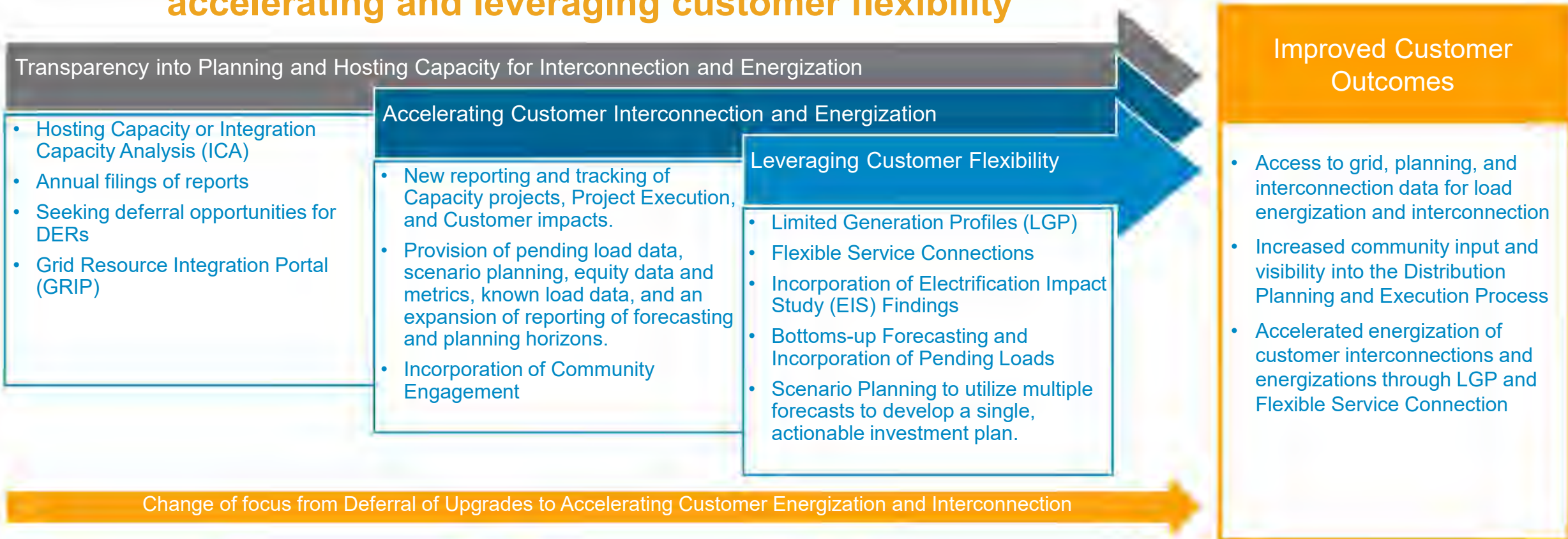
Senior Manager of Electric Planning Modernization





Accelerating Customer Outcomes

PG&E's focus is on improving customer outcomes – from providing transparency of data and engineering analytics to accelerating and leveraging customer flexibility



Improving

Affordability

Improved Customer Outcomes

Safety and Reliability

Compliance

Grid Resource Integration Portal (GRIP)

Public data portal for interconnection, energization, and distribution planning data access

Useful for:

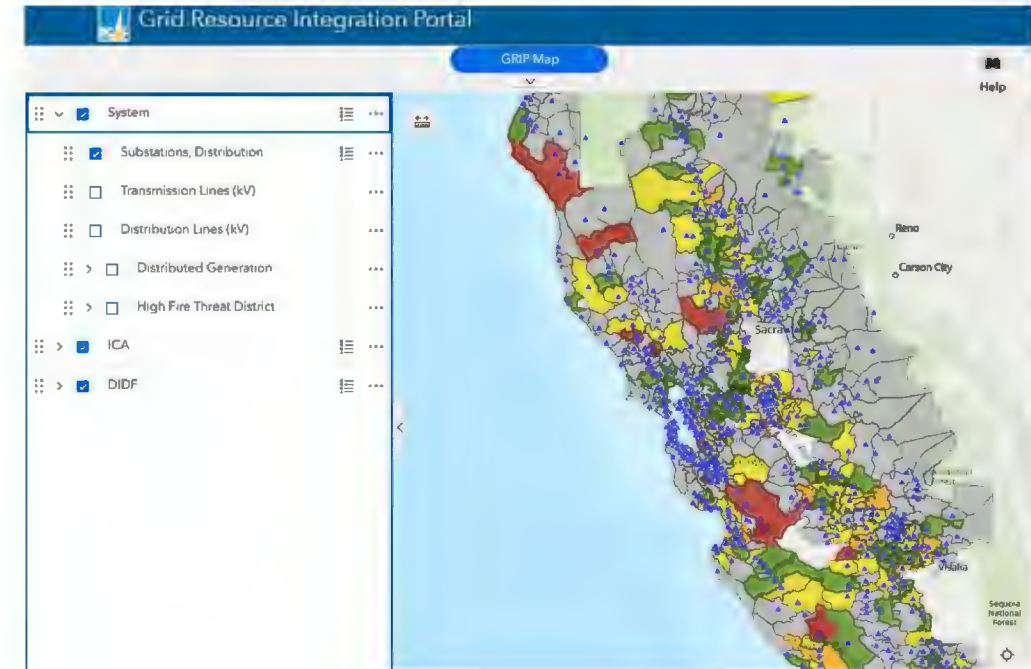
- Access to data and information about PG&E's annual distribution planning process, including grid needs and planned investments
- Siting Distributed Energy Resources (DERs) and load
- Interconnection & Energization support: directional guidance before customers formally apply

Datasets:

- ICA (hosting capacity)
- Forecasted load and DER growth and grid needs
- Planned distribution system projects

Key features:

- New platform to support analysis and easier access
- Access through map, API, or tabular data
- New filtering and searching functionality



Link: GRIP.pge.com

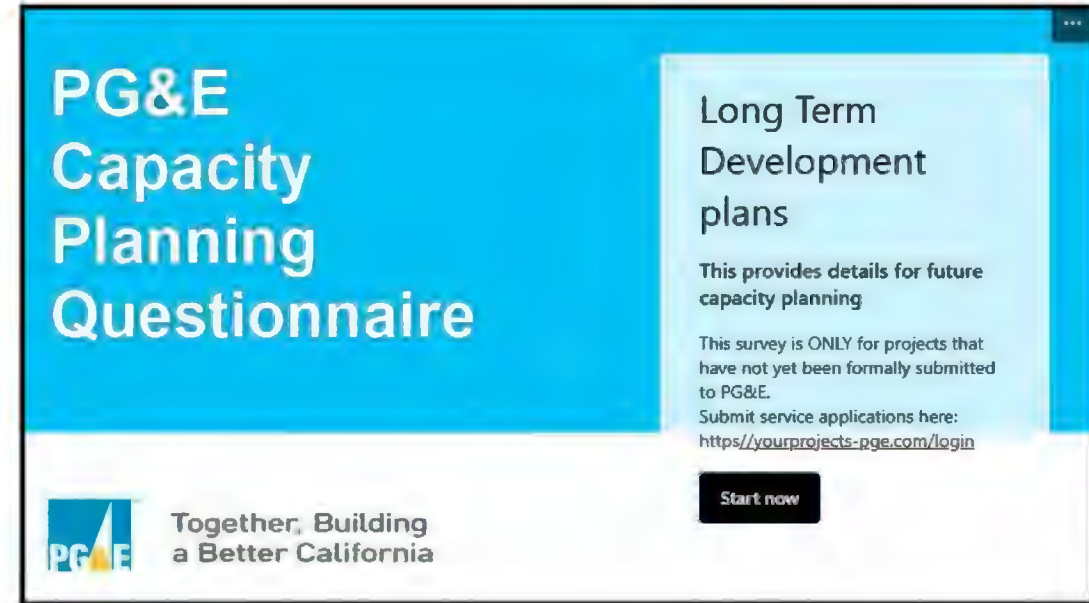
PG&E launched an improved User Interface in October to handle over a 600% increase in Customer usage



Community Engagement for Distribution Planning

Improve engagement with our communities regarding distribution planning to better meet California's increasing energization needs

- PG&E launched a Capacity Planning Questionnaire to:
 - Inform our distribution planning forecasts by obtaining community plans for future development.
 - Provide pathway for communities to provide their long-term development plans with our Distribution Planning Engineers
 - Consider these plans in our Distribution Planning Processes (DPP) to be able to better service future community needs.
 - Improve coordination with Federal Tribes, Environmental & Social Justice groups, and local governments on longer term planning for city & county developments



Link to Webform: [Capacity Planning Questionnaire](https://yourprojects-pge.com/login)

Benefits:

Longer Term Outlook than service planning application adjustments

Improved location and temporal accuracy over propensity based spatial adjustments

Better inform proactive capacity upgrades

Opportunity for customers to **align long-term forecasts with capacity outlook**



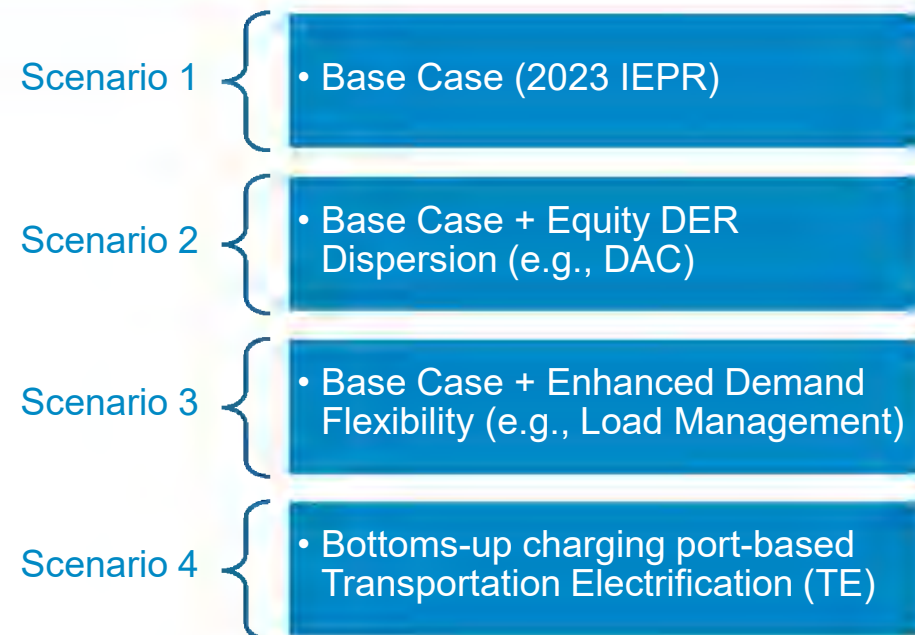
PG&E Electrification Impact Study (EIS)

Overview

Objective:

The EIS is designed to **estimate the long-term distribution grid infrastructure costs associated with achieving California's electrification goals through 2040**. It serves as a strategic reference—not a direct investment plan—to understand the implications of widespread electrification, including the adoption of Distributed Energy Resources (DERs), demand flexibility, and equity-focused planning.

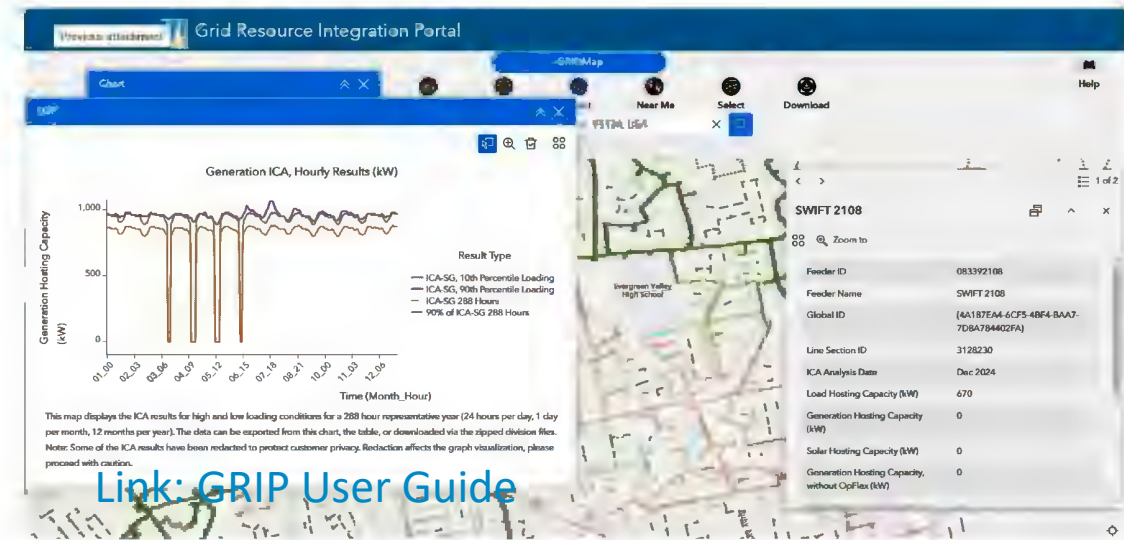
- A comprehensive assessment of a high electrification future:
 - Forecast grid impacts across 4 scenarios for 2030, 2035, 2040
 - Estimate costs across the distribution and secondary grid through solutioning
 - Examine DER adoption for DAC customers
 - Examine the impact of enhanced demand flexibility
- Study timeline:
 - Study began in Q4 2024
 - Incorporate lessons learned into PG&E's future DPEP cycles



Limited Generation Profile (LGP)

PG&E Launched LGP Functionality in July 2025 to facilitate Generation Customer Interconnections through Rule 21

- Empowers DERs to leverage flexibility and operate within grid constraints to minimize the need for distribution grid upgrades and accelerate interconnection.
- Customers can use PG&E's [GRIP](#) portal to extract hourly hosting capacity data (ICA) and build their operating Limited Generation Profile (LGP).
- Customers can submit their generation interconnection applications through [YourProjects](#) portal with LGP profiles.
- LGP is a set of generation export limits that allows DERs to maximize their export while avoiding the need for grid upgrades and accelerating generation customer interconnections.



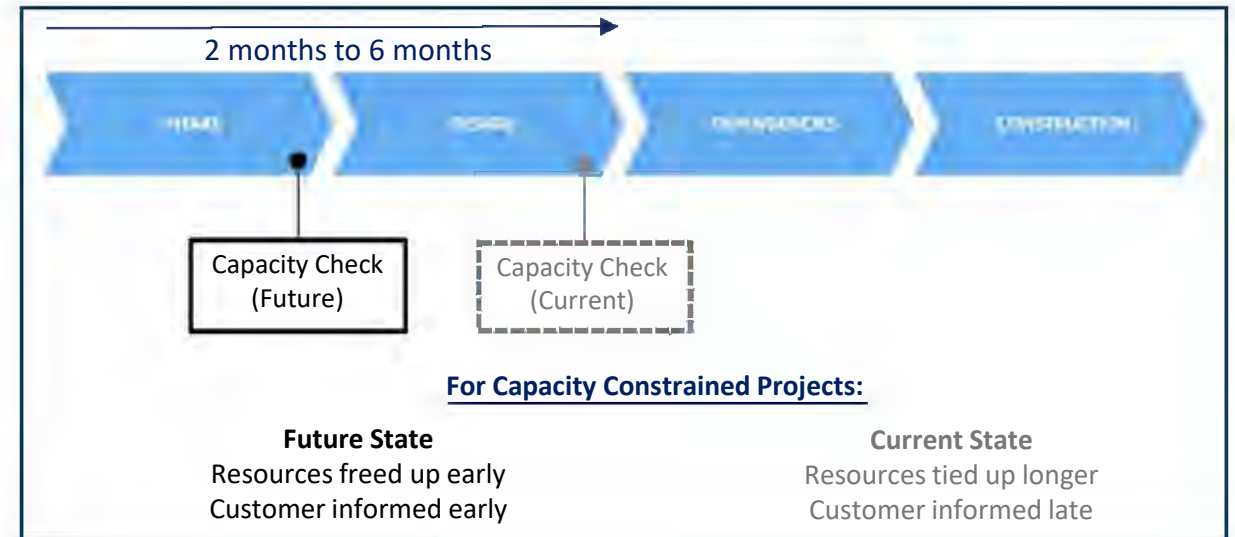
- The data can be viewed in GRIP through:
 - The chart interface
 - The table function
 - Pop-up windows
 - Downloadable files



Automatic Capacity Evaluator (ACE)

Integrate Load ICA data into energization process for early capacity screening of new applications

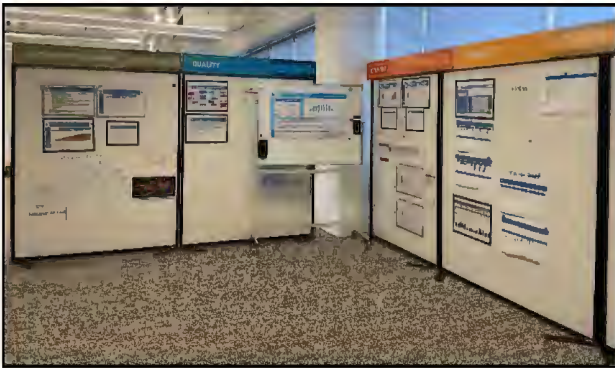
- Integrate automatic demand calculations and capacity screening for incoming customer load applications
- Identify capacity constraints significantly earlier in the energization process to improve visibility for customers and minimize unforeseen project impacts
- Optimize resources and reduce waste on applications that ultimately don't proceed, allowing focus on viable projects with available capacity
- Reduce manual tasks and minimize rework by implementing standardized load calculation methodologies and automation across platforms





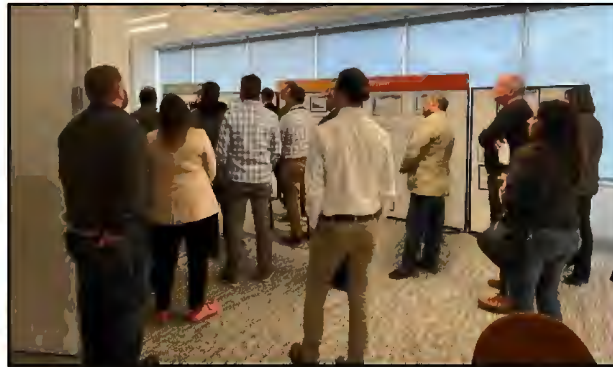
Key Challenge: Delivering on the Capacity Needs of a High Electrification Future

The Capacity Delivery Center (CDC) facilitates the on-time delivery of electric capacity for PG&E customers (Distribution, Transmission, Generation and Large Load).



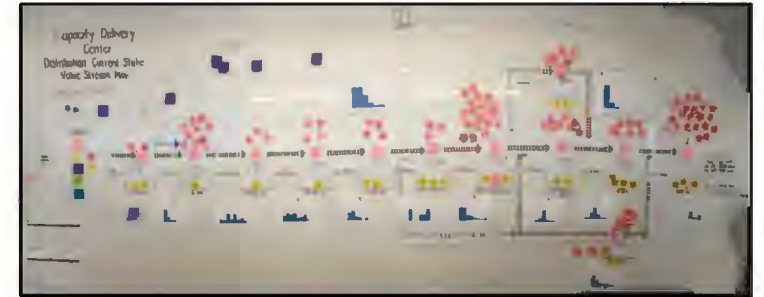
Visualizing the Delivery of Capacity for Customers

- Located at PG&E's Oakland General Office
- Bring visibility to PG&E's Portfolio of Work
- Strategize to address barriers to delivery on customer commitments



A Command Center

- Regular Operating Rhythms on the status of capacity projects
- Identify escalations and develop catch-back plans to mitigate risks
- Monthly report out on status of in-year metrics for capacity projects



A Lean Operations Hub

- Visualize project delivery process
- Analyze data to identify opportunities for improvement
- Implement efficiencies to better serve capacity customers through problem solving