



# UM 2005 Distribution Work Group March 31, 2022, Notes

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April 12, 2022

Below are notes from the March 31, 2022, DSP Work Group meeting.

**Attendees included (but were not limited to):**

- PUC
  - Nick Sayen, Staff
  - Garrett Martin, Executive Office
- PacifiCorp
  - Lee Elder
  - Erik Anderson
  - Melissa Nottingham
  - Tyler Jones
  - Kathreen Woyak
  - Daniel Talbot
  - Teri Ikeda
  - Alex Osteen
- NWECC
  - Marli Klass
  - Fred Heutte
- Energy Trust
  - Jeni Hall
  - Spencer Moersfelder
  - Gina Saraswati
- OSSIA: Angela Crowley Koch
- CCC: Nikita Daryanani
- Renewable NW: Micha Ramsey
- Oregon DOJ: Natascha Smith
- Climate Solutions: Joshua Basofin
- CUB
  - Sudeshna Pal
  - Mike Goetz
- PGE
  - Sam Newman
  - Misty Gao
  - Joe Boyles
  - Jennifer Galaway
  - Shadia Duery
  - Rich George
  - Stefan Brown
  - Derrick Harris
  - Frank Buzzi
  - Vinh Nguyen
  - Jen Latu
  - Alina Nestjorkina
  - Julian Khouri
  - Nihit Shah
- Idaho Power
  - Marc Patterson
  - Jim Burdick
  - Chris Cockrell
  - Kelley Noe
- IREC: Yochi Zakai

**Questions/clarifications/etc. on follow up materials from March 10, 2022, meeting**

There were no questions or clarifications on the follow up materials from the March 10, 2022, meeting.

**Questions for clarification**

There were no questions for clarification received ahead of the meeting or brought forward during the meeting.

## **Working Subgroups – Review of Staff’s Follow up on March 10, 2022, Meeting Input**

Staff provided an overview of the proposal for an approach to working groups. The proposal was included with the agenda. Discussion of the proposal included:

- Is there a way to notify people from the larger community of DSP stakeholders who are not participating in the TWG who may want to participate in the subgroups? Yes, if subgroups hold scheduled meetings, the information could be posted to the docket to provide transparency.
- Would Staff discuss how the topics were consolidated the subgroups? Nick explained that participants’ interest from the last meeting was nothing more than that. Anyone is free to change topics, no obligation at all. Nick walked through the topics and explained how they were identified/evolved and then consolidated for the proposal.
- Regarding cost effectiveness, what would subgroup C be covering and when? Nick explained that the subgroup would cover the commonalities or differences among the IOUs prior to filing Part 2, but not make policy decisions. It was noted this could be duplicative of the 2023 Guideline revision process.
- It was noted that some of the subgroups would require utility participation to get started, and to result in meaningful discussion. Nick agreed with the observation.
- Would locational value be folded into one of the subgroups work? Nick answered probably not, but inquired whether the group had interest in an educational session (for example from NREL) on the topic. Several participants expressed interest in such a session.
- Would Staff clarify where discussion of equity metrics would be discussed? Nick explained Subgroup B would focus on data and data sources that were available. If after that discussion there was agreement on specific data/metrics, then that could be presented to Subgroup D.
- If subgroups don’t reach consensus, is there a process for addressing that non-consensus? Can alternative proposal be presented for consideration? As one example, for data redaction standards, it would be great to have proposals illustrating differences. Nick answered he didn’t have a specific process in mind. Generally, the idea would be to understand the differences, and reasons for the differences; for some issues there does not necessarily need to be consensus. However, some way to capture differences would be helpful in ultimately resolving them.

After discussion, Staff asked whether there was interest from participants in signing up for the subgroups. There was not, and it was decided the subgroup approach would not be used. Nick will pursue specific topics for the next TWG meetings in April and May.

## **PGE presentation: near-term action plan and other distribution investments - PGE Staff**

Joe Boyles presented on PGE’s near-term action plan and other distribution investments using the slides attached.

## **Adjourn**

The meeting adjourned a few minutes after 4 pm Pacific.

Please note for your reference future DSP Work Group meetings dates include:

Date and Time
April 21, 2022, 1:00 – 4:00 pm Pacific
May 19, 2022, 1:00 – 4:00 pm Pacific
June 16, 2022, 1:00 – 4:00 pm Pacific

### Parking-lot for outstanding issues and questions

1. Where and how data will be stored is an important question to discuss early so there is a way to manage, keep safe, and access data as it comes in (from 5/7/21 Data Transparency Workshop).
2. Volunteers to work on establishing common definitions for distribution system planning discussions (from 5/7/21 Data Transparency Workshop).
3. Volunteers to work on further completing Figure 2 for priority data types (from 5/7/21 Data Transparency Workshop).
4. What are preferred sources of public data that include demographics and other details that adequately characterize our communities? (from 6/30/21 Technical Work Group meeting)
5. Working subgroup to focus on demographic and socioeconomic data, useful energy planning metrics, and quantifying measures and data sources for equity (from 6/30/21 Technical Work Group meeting).
6. Working subgroup to focus on practices for handling public accessibility of data (from 6/30/21 Technical Work Group meeting).
7. Venue for solutions providers (companies and vendors) that could provide technology and services to implement DSP.
8. Identify areas of overlap and potential collaboration in utilities' current practices, with the goal of minimizing discrepancies, regarding:
  - o cost effectiveness methodologies,
  - o forecasting approaches, including consideration of how EE and DER forecasting feeds into the IRP process,
  - o current practices/developments in hosting capacity analysis.
9. Additional steps to disseminate distribution system data, including assessing maps already developed to identify best practices, inclusion of equity data in maps already developed, and organizing/validating/publishing distribution system data not already made public.
10. Locational value.
11. Use of hosting capacity analysis to guide proactive utility investments.

### Questions or Feedback

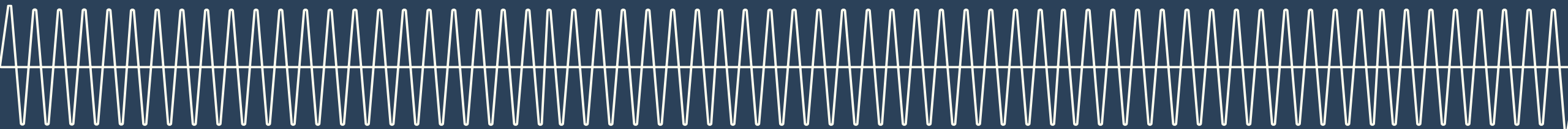
Questions and comments can be directed to Nick Sayen via email at [nick.sayen@puc.oregon.gov](mailto:nick.sayen@puc.oregon.gov) or by telephone at 503-510-4355.

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# Discussion of PGE's Near-term Action Plan and Other Distribution Investments

Joe Boyles, DSP Project Management

March 31, 2022

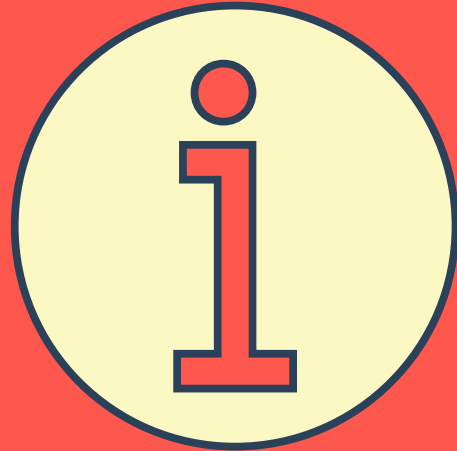


# Objectives

Build awareness of what will be in the Near-term Action Plan

Provide opportunities for review and comment on data and format for Grid Needs, Solutions and related investments

# Discussion topics



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Pulling the thread through the DSP requirements and related data

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Bottom-up analysis and top-down governance - orientation to the decision-making process and framework

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Timing of activities - recap of prior discussions

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Categorization of investments/projects - focus on distribution planning

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Overview of investments by category

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The project development funnel - from Grid Need to funded and initiated project

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Determining which projects to move forward - balancing the portfolio

# DSP Part Two Requirements Summary

## Forecasting of Load Growth, EV/DER Adoption

- Describe current state for Load Forecast - process, tools, **data**
- DER/EV:
  - Forecast methodology and geographic allocation
  - Adoption by substation - high/med/low scenarios
  - Forecast of load growth and adoption




## Grid Needs Analysis

- Document **process to assess grid adequacy and identify grid needs**
- Discuss criteria used to assess reliability and risk - methods and modeling tools used
- Present prioritized constraints publicly, including prioritization criteria and timeline to resolve constraints



## Solution Identification

- Document **process for identifying the range of solutions** to address grid needs
- For each need, **describe the data used to support investment decisions**
- For large projects, describe process for engaging communities and getting input
- Propose 2 NWS pilot projects



## Near-term Action Plan (2-4yrs)

- Provide **2-4 yr. plan to address grid needs**
- Disclose **planned spending, timeline** and recovery mechanism
- Discuss relationship between planned investments
- Discuss pilots being conducted to enhance the grid

# Business Sponsor Group (BSG) Reporting Structure





# What do BSGs do?



## Portfolio Planning

Develop 3-5-year project road maps that translate the corporate strategy into specific initiatives

Prioritize projects based on business benefit (and de-prioritize)

Executive Steering Committees (ESCs) endorse road maps as the best way to reach strategic goals

Communicate road maps and planned work



## Portfolio Management

Decide when to promote projects from road map to active work

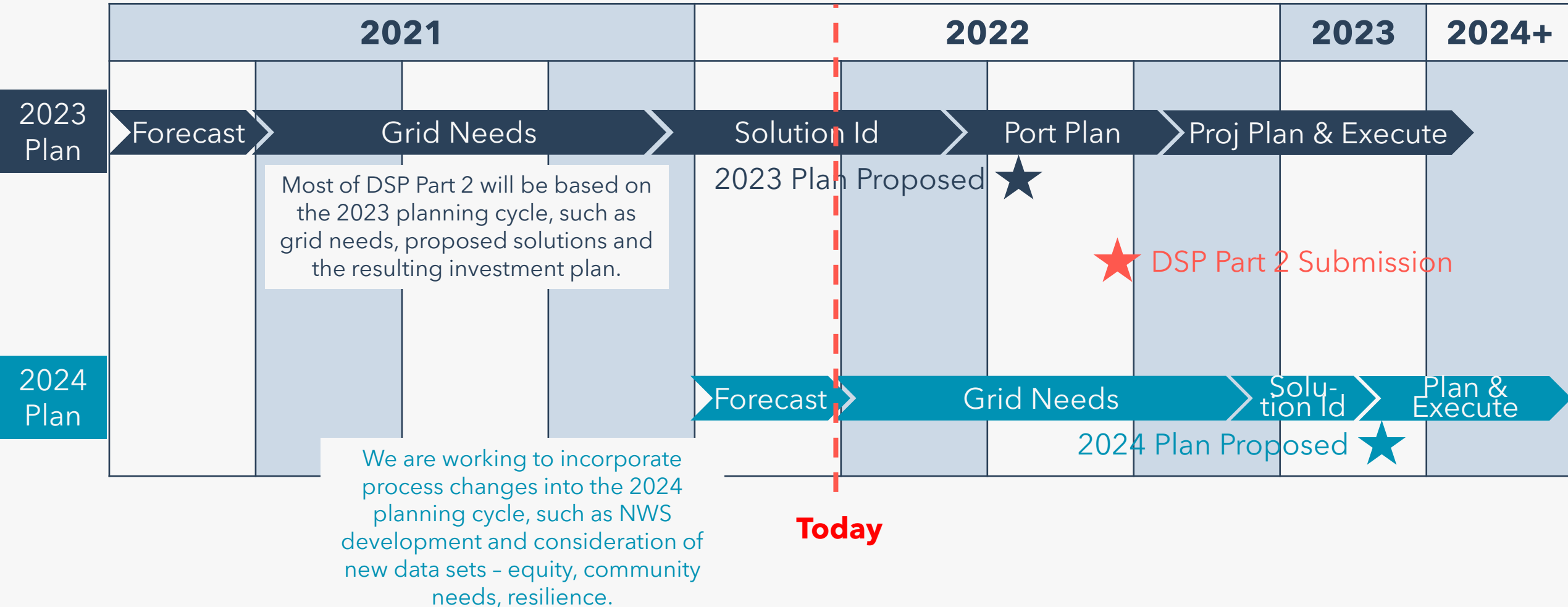
Allocate budget to projects based on performance

Monitor portfolio execution and benefits delivery

Manage project exceptions

Escalate issues to the CRG and ESC as needed

# Investment Development Timeline

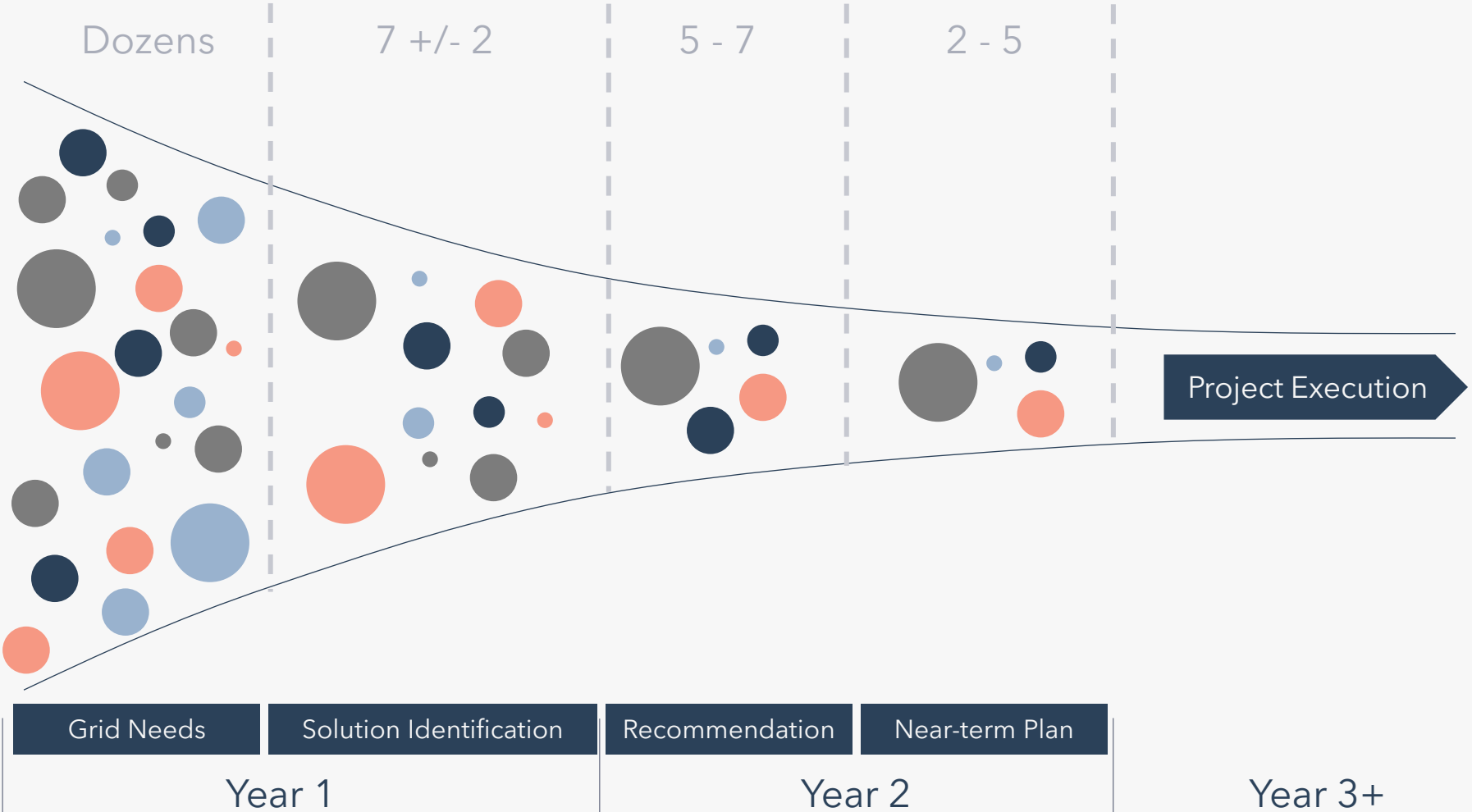


# Current T&D Project Categorization

Portfolio	Sub-Portfolio	Category	DSP Investment Categories
Transmission and Distribution	Grow (load growth/ econ. dev.)	<b>Capacity/Flexibility</b> - increase capacity and/or flexibility to address load growth or increased demand; may include capacity-driven compliance and reliability projects	<ul style="list-style-type: none"><li>• System expansion or upgrades for capacity</li><li>• New Customer Projects</li><li>• System expansion or upgrades for reliability and power quality</li><li>• Preventive maintenance</li><li>• Age-related replacements</li><li>• Metering</li><li>• Grid modernization*</li></ul>
		<b>Customer/Partner</b> - investments involving a commitment to a customer, internal partner, municipality, or co-owner; includes critical service restoration and our obligation to serve; applicable to both sustaining and growth sub-portfolios	
	<b>Compliance</b> - address a non-capacity related compliance requirement from FERC, NERC, OPUC, EPA, DEQ or other regulatory body		
	<b>Reliability</b> - enhance reliability, resiliency and security; includes proactive repair/replace in kind projects as well as broader improvement initiatives		
	<b>Operations</b> - address tools, safety, restoration of non-critical services, and efficiency improvements		
Sustain (keep the lights on)			

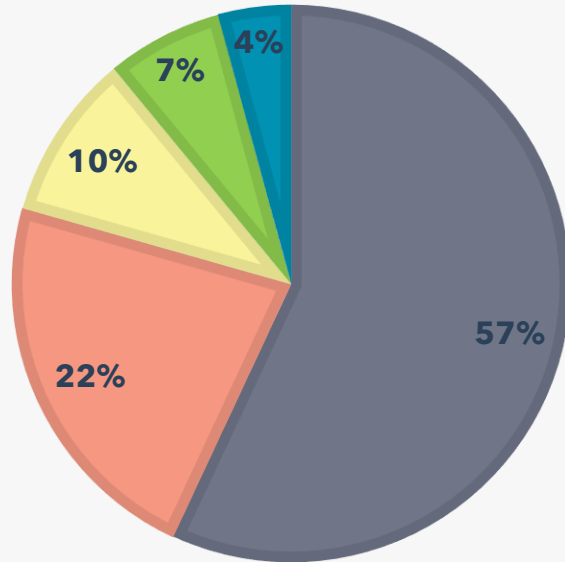
\* Not included in the T&D portfolio

# T&D Project Development Funnel

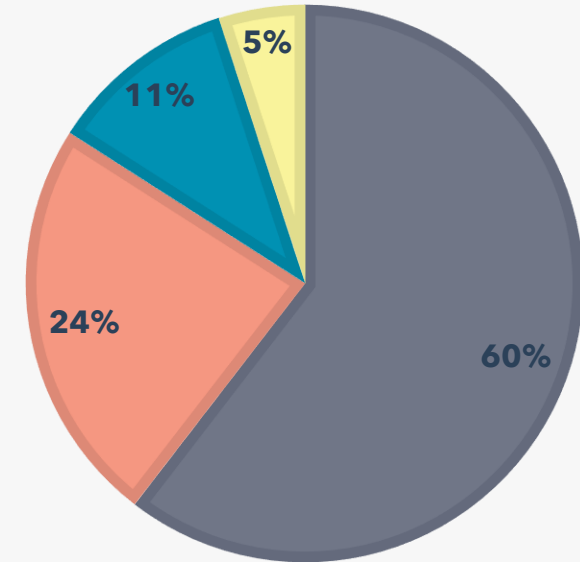


# 2020 T & D Spending

## 2020 ACTUALS BY CATEGORY



## 2020 ACTUALS LED BY DIST. PLANNING



■ Customer/Partner ■ Compliance ■ Reliability ■ Operations ■ Capacity/Flexibility

■ Customer/Partner ■ Compliance ■ Capacity/Flexibility ■ Reliability

Categories	2020 Actuals
Customer/Partner	\$ 132,213,613
Compliance	\$ 52,121,709
Reliability	\$ 22,411,838
Operations	\$ 15,690,824
Capacity/Flexibility	\$ 9,729,692
<b>Grand Total</b>	<b>\$ 232,167,676</b>

Categories	2020 Actuals
Customer/Partner	\$ 53,780,202
Compliance	\$ 21,014,522
Capacity/Flexibility	\$ 9,729,692
Reliability	\$ 4,444,346
<b>Grand Total</b>	<b>\$ 88,968,762</b>

# Portfolio Considerations

Alignment to Corporate Strategies and Goals

Firm commitments - customer and/or compliance

Execution readiness - cost estimate, resource and materials

Stage-gate approvals: minimize risk with planning-only approval

Quantified project benefits



# Example of Near-term Action Plan

## Examples

<b>Project: Tree Wire Install (\$1.4 M/yr)</b> <i>Sustain-Reliability</i>	Alignment to Corporate Strategies and Goals: <b>Yes</b>	Firm Commitment: <b>No</b>	Execution Readiness: <b>Yes</b>	Quantified Benefits: <b>Yes</b>
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- This project uses asset risk analytics to identify areas to install covered tree wire to reduce customer minutes interrupted (CMI). Initial capital investment is made to scope and design the work according to the asset risk analytics and then considerations are made for construction based on timing, materials and resources. A renewed focus has been made on CMI and due to the benefit of having work scoped and ready for design and execution, PGE is able to accelerate the work in order to align with corporate strategy.

<b>Project: Remote Connect Meters (\$2.2 M/yr)</b> <i>Sustain-Operations</i>	Alignment to Corporate Strategies and Goals: <b>Yes</b>	Firm Commitment: <b>No</b>	Execution Readiness: <b>Yes</b>	Quantified Benefits: <b>Yes</b>
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- This project installs remote connect customer meters. The benefits included cost avoidance, faster reconnection for customers, avoided truck rolls and truck maintenance costs as well as office support and field support required due to remote connect meters.

<b>Project: Build Evergreen Substation (~\$35-45 M)</b> <i>Grow-Compliance</i>	Alignment to Corporate Strategies and Goals: <b>Yes</b>	Firm Commitment: <b>Yes</b>	Execution Readiness: <b>Yes</b>	Quantified Benefits: <b>Yes</b>
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- On a 2018 study for NERC compliance (TPL-0010-4), PGE identified existing transmission system constraints such that a loss of existing bulk transformers in Hillsboro coupled with increasing load requests would result in PGE having to shed load due to system overload. A multi-year project was created with planning/engineering and materials requests up front. This project was temporarily deferred during COVID pandemic due to re-evaluation of load and area growth, pushing completion out a few years.

<b>Project: Roseway Substation Expansion (\$13 M)</b> <i>Grow-Capacity/Flexibility</i>	Alignment to Corporate Strategies and Goals: <b>Yes</b>	Firm Commitment: <b>No</b>	Execution Readiness: <b>Yes</b>	Quantified Benefits: <b>Yes</b>
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- A new residential housing development in south Hillsboro necessitated a substation expansion to meet future load demands. This project also provided an opportunity to add a new transmission line that increases reliability in the region and allowed PGE to offload load from adjacent substations to improve performance and operations.

# Q & A

What are your expectations for Recommended Solutions that are associated with Prioritized Grid Needs?

Is this sufficient data?

What are your suggestions for presenting this information – website, zoom meeting, other?

