



Learning Lab Series

Learning Lab # 6 - June 15, 2023



Meeting Logistics



Audio



Microphone



Chat box



Video



Raise Hand



Closed Caption

Operating Agreements



Establishing norms with our communities is foundational to building trust

To create a **safe space**, we established **common agreements** such as **respect, honoring diversity of thought**, and **inclusivity**

Practice curiosity and **seek to understand different perspectives**

**Stay
Engaged**

**Be Willing To
Experience
Discomfort**

**Speak Your
Truth**

**Expect and
Accept Non-
closure**

**Share the
Airtime**



[The courageous conversations framework](#)
by Glenn Singleton and Curtis Linton

Meeting Objectives

Share updates on PGE's:

- Plans & Engagement
- Community Benefits & Impacts Advisory Group

Level set on Flex Load terminology before July's Learning Lab on Flex Load

Q&A regarding CEP/IRP filing

Share timelines and next steps

Agenda

10:00 - 10:10 Welcome, Introductions, Meeting Logistics

10:10 - 10:30 PGE Sustainability and Resource Planning Team - UPDATE

10:30 - 11:00 Community Benefits & Impacts Advisory Group (CBIAG) - UPDATE

11:00 - 11:30 Level-set Flex Load - 101

11:30 - 11:50 Office hours on CEP/IRP

11:50 - 12:00 Closing Remarks & Next Steps



Sustainability and Resource Planning Team

Samantha Thompson, Energy Equity Partner

Learning Lab June 15, 2023



Sustainability and Resource Planning Responsibilities



Company Strategy



Environment Social & Governance Report (ESG)



Integrated Resource Plan (IRP)



Clean Energy Plan (CEP)



Distribution System Plan (DSP)

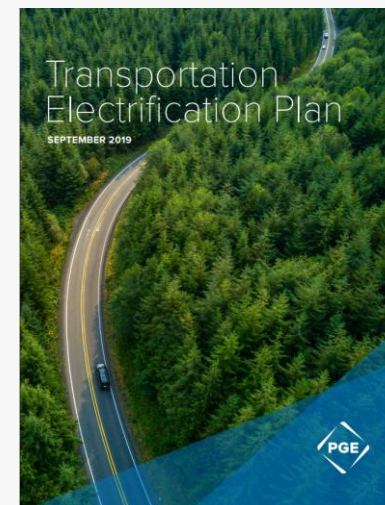


Flex Load Multi-year Program Plan (MYP)



Transportation Electrification Plan (TEP)

Our Plans and Report



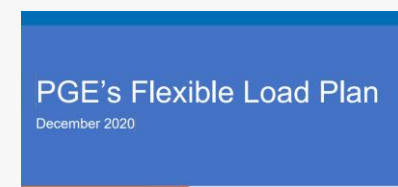
Transportation
Electrification Plan
SEPTEMBER 2019



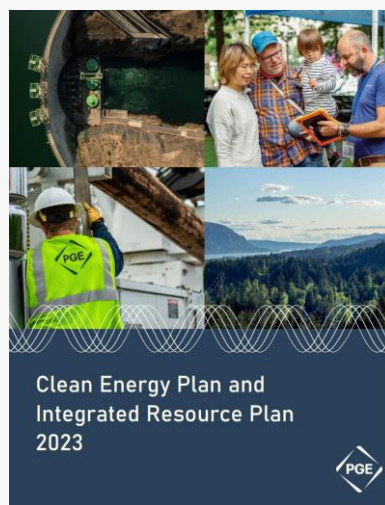
IRP: estimates future energy needs & identifies the optimal portfolio of resources to meet those needs at the lowest costs.

CEP: informs our pathways to decarbonizing our energy mix.

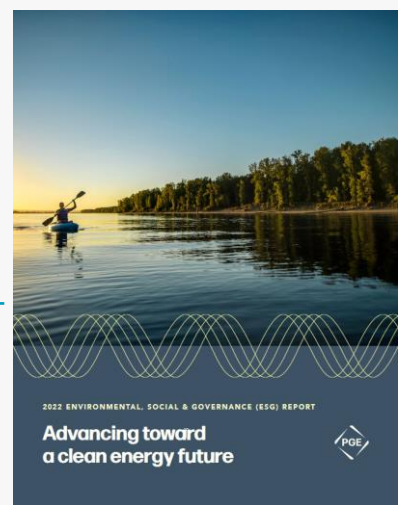
TEP: describes our actions in support of transportation electrification by proposing a portfolio of activities that facilitate our ability to **plan for, manage,** and **serve TE loads** rapidly coming to our system.



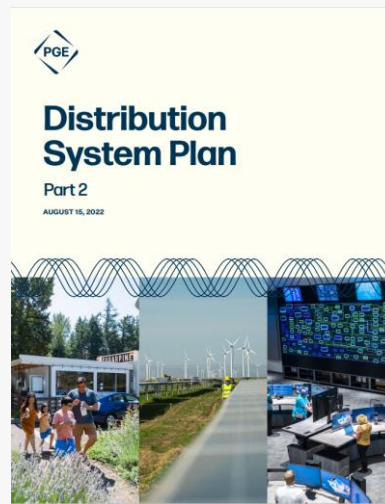
MYP: evaluates our Flex Load activities/programs such as demand response, which complement traditional generation resources and are key to our decarbonization efforts.



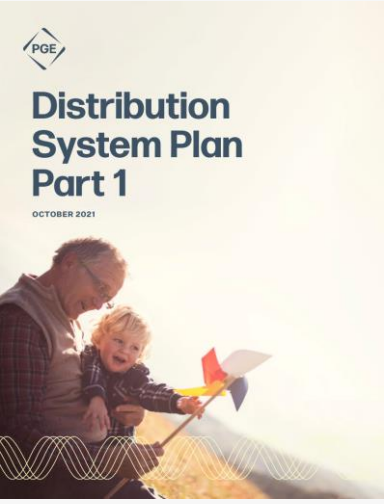
Clean Energy Plan and
Integrated Resource Plan
2023



2022 ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG) REPORT
Advancing toward
a clean energy future



Distribution
System Plan
Part 2
AUGUST 15, 2022



Distribution
System Plan
Part 1
OCTOBER 2021

DSP: assesses our future distribution system capacity needs, forecasts where we will need more energy resources and prioritizes modernization projects that will make the most of new energy sources.

ESG: showcases our commitment to sustainability and highlights progress towards key goals including GHG emissions reductions, environmental stewardship, and advancing DEI.

People-Centered Planning

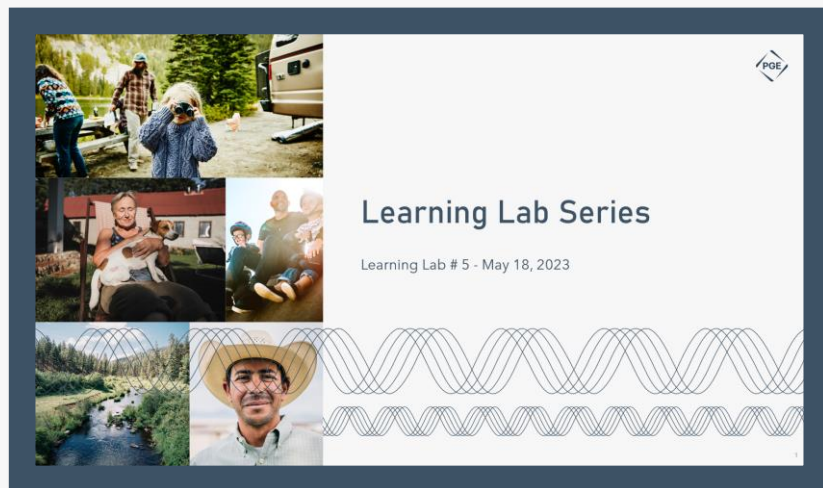
OPUC Plans development expectations



Evolve with community in a public process

Develop with public input and account for voices that have not been historically included in the planning process

Non-technical



Technical



Learning Labs | One-stop Venue to Engage with Partners

Audience: Non-technical (consolidated mailing list CEP, DSP, MYP, and TEP)

Topics: Various planning initiatives and efforts (CEP/IRP, DSP, MYP, and TEP)

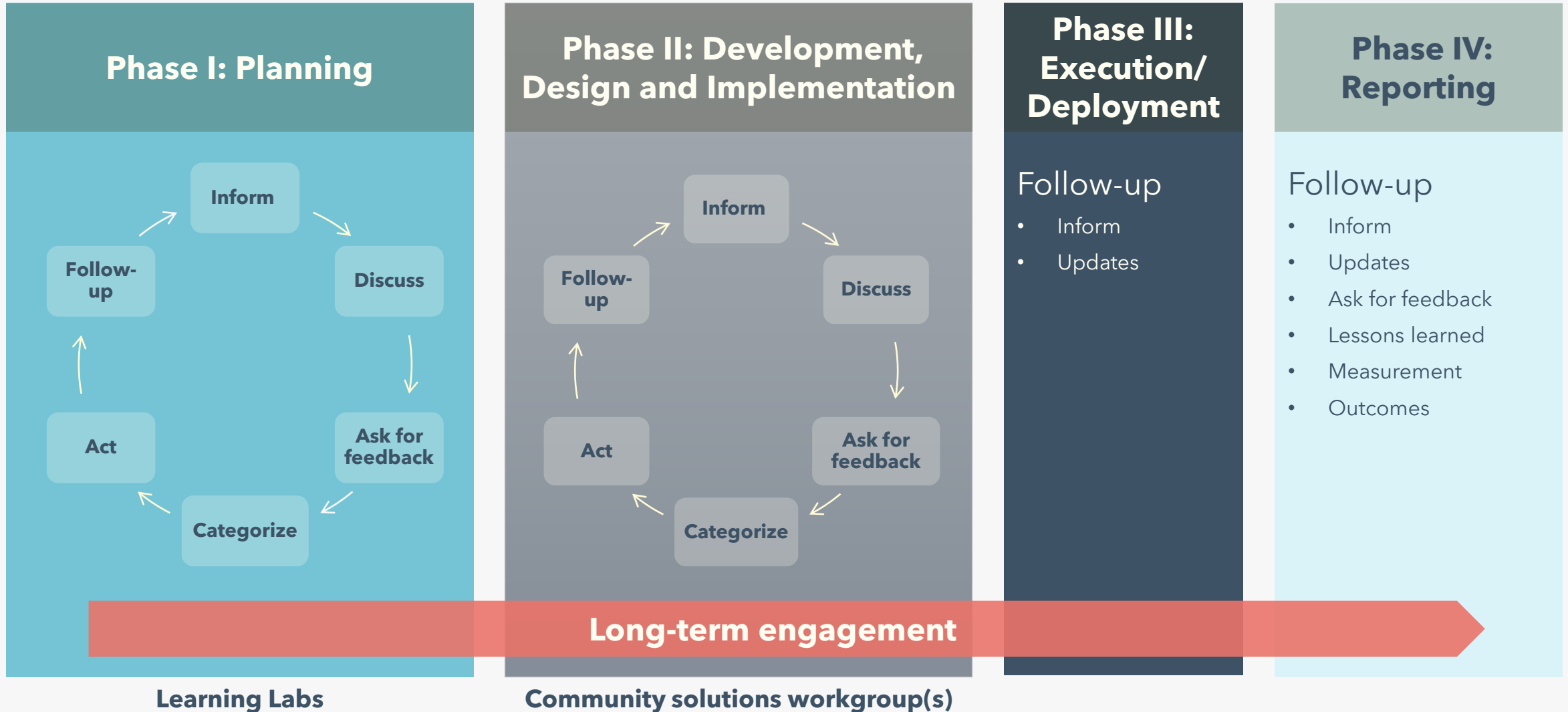
Cadence: 6-8 weeks

Time: 2 hrs. (additional time may be added at the end of the agenda for technical topics)

Communication information:

- Mailbox: LearningLab@pgn.com
- Webpage: [Resource Planning | PGE](#)
- Online meeting platform: [Zoom](#)
- Collaboration tools: [surveys](#) and [Mural](#)
- Email communication:
 - ✓ Meeting invites
 - ✓ Learning Lab agenda with timeslots for topics being discussed
 - ✓ Follow-up email: Video link(s) and presentation materials

Engagement as a continuum





Questions/ Comments





PGE's Community Benefits & Impacts Advisory Group (CBIAG) UPDATE

Jenn Latu, PGE

Learning Lab June 15, 2023



“

*An electric company that files a clean energy plan shall convene a CBIAG... Members will be determined by the electric company with input from **stakeholders that represent the interests of customers or affected entities within the electric company's service territory. Members must include representatives of environmental justice communities and low-income ratepayers** and may include representatives of other affected entities within the company's service territory.*

*The electric company shall develop, in consultation with the CBIAG, a **biennial report** that **assesses the community benefits and impacts of the electric company** and shall file the biennial report with the PUC.*

Oregon House Bill 2021, Section 6 (2021)

"Environmental justice communities includes communities of color, communities experiencing lower incomes, tribal communities, rural communities, coastal communities, communities with limited infrastructure and other communities traditionally underrepresented in public processes and adversely harmed by environmental and health hazards, including but not limited to seniors, youth and persons with disabilities." - Oregon House Bill 2475, Section 1 (2021)

Development of PGE's CBIAG

Phased Approach



PGE's CBIAG Goals and Outcomes

1

Goal: Create an equitable and inclusive community forum that allows PGE to collaborate, partner, and garner feedback from environmental justice (EJ) and other traditionally underrepresented community representatives on House Bill 2021 CBIAG-mandated topic areas

Outcome: Center community voices across HB 2021 CBIAG mandated community engagement focus areas

2

Goal: CBIAG will assist PGE on community and equity lens application across HB 2021 CBIAG-mandated community engagement focus areas

Outcome: PGE has a community forum to vet decisions on HB 2021 mandated focus areas, including a *biennial report*

3

Goal: Empower EJ and other traditionally underrepresented communities with awareness and knowledge about energy and how utilities operate, make operating and financial decisions to serve customers

Outcome: Create and maintain long-term and mutually beneficial partnerships with environmental justice communities and those that serve them (CBOs and culturally specific organizations)

Legislative Direction

Oregon House Bill 2021, Section 6

CBIAG Topics

MUST

- Energy burden and disconnection
 - Increase contracting
 - Improve resilience
 - Distribution infrastructure
 - Community co-benefits
 - Customer experience
 - Customer engagement
-

MAY

- Clean Energy Plan
 - Distribution System Planning
 - Contracting practices
 - Other topics
-

CBIAG Members (as of 6/12/23)

Representative	Organizations/Affiliations
Sabrina Wilson	Rosewood Initiative
Lorena Carrillo	El Programa Hispano
Sherrie Villmark	Community Energy Project
John Maddalena	Self Enhancement, Inc.
Ebony Foreman	Metropolitan Family Services
Christine Chin Ryan	Asian and Pacific Islander Community Coalition of Oregon
Maria Elena Guerra	Farmworker Housing Development Corporation
Jules Martinez Plancarte	CAPACES
Timur Holove	Slavic Community Center of NW
Nate McCoy	National Association for Minority Contractors
Makarano Yim	Immigrant & Refugee Community Organization
Samantha Aviles	Hispanic Metropolitan Chamber

CBIAG Meetings, Materials and Notifications

Monthly meetings

Hosted on the 4th Wednesday of each month

Open to the public, but attendees are observers only

June 28th is the next meeting (virtual, 10am-12pm)

Materials

External webpage is in process; presentations being sent out in the interim

Notifications

Join the mailing list by emailing or contact us at: CBIAG@pgn.com



Questions/ Comments



Flexible Load 101

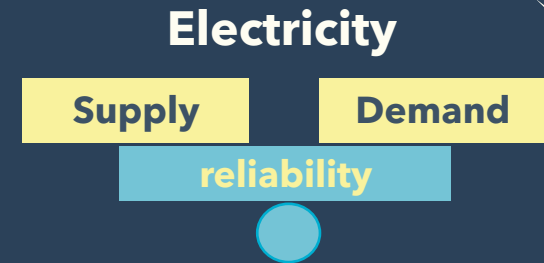
Jason Salmi Klotz, PGE
Learning Lab June 15, 2023



Objective

Introduce Flex Load terminology prior to July's Learning Lab, which will focus on the Flex Load Multi-year Plan

The Electric Grid is Evolving

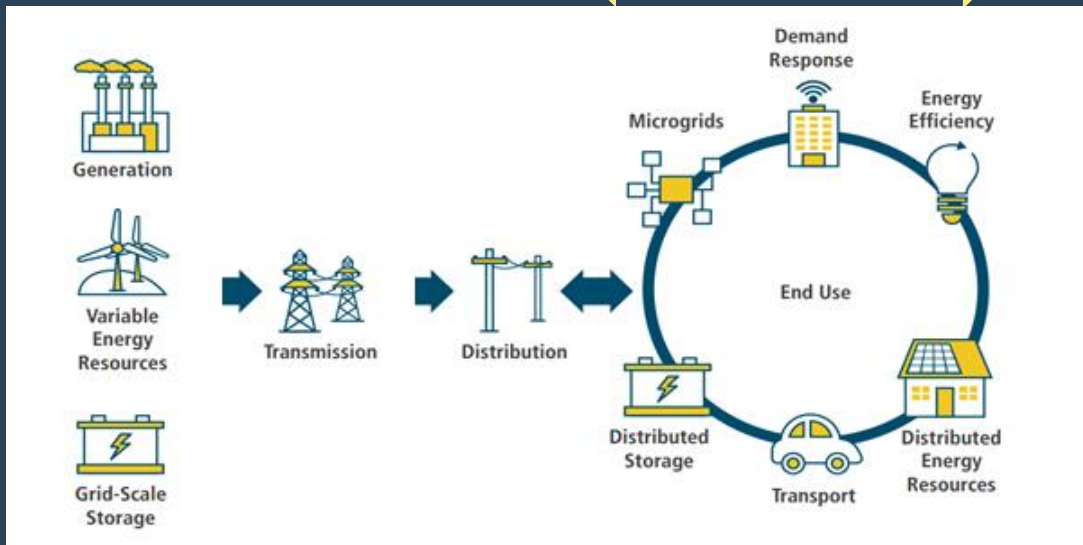


One way flow of power



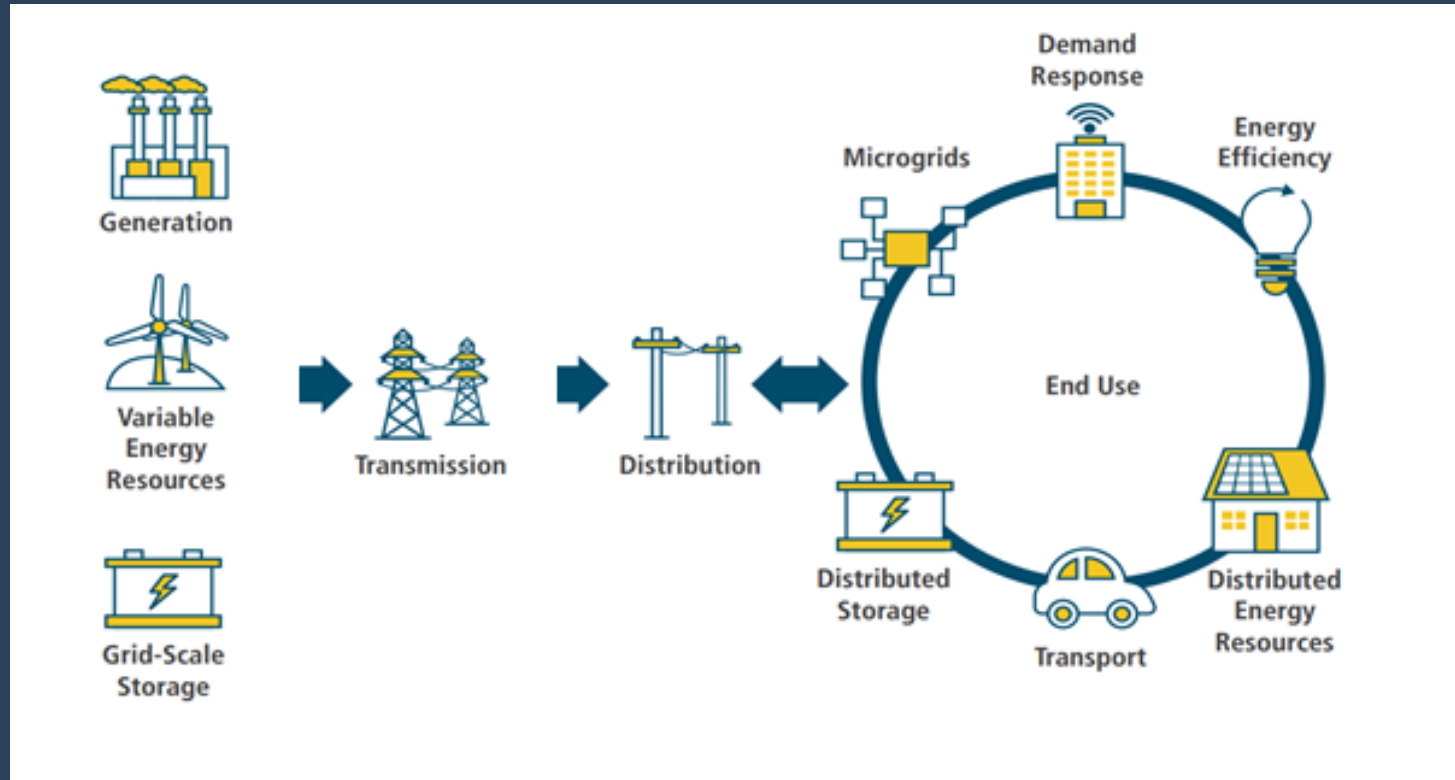
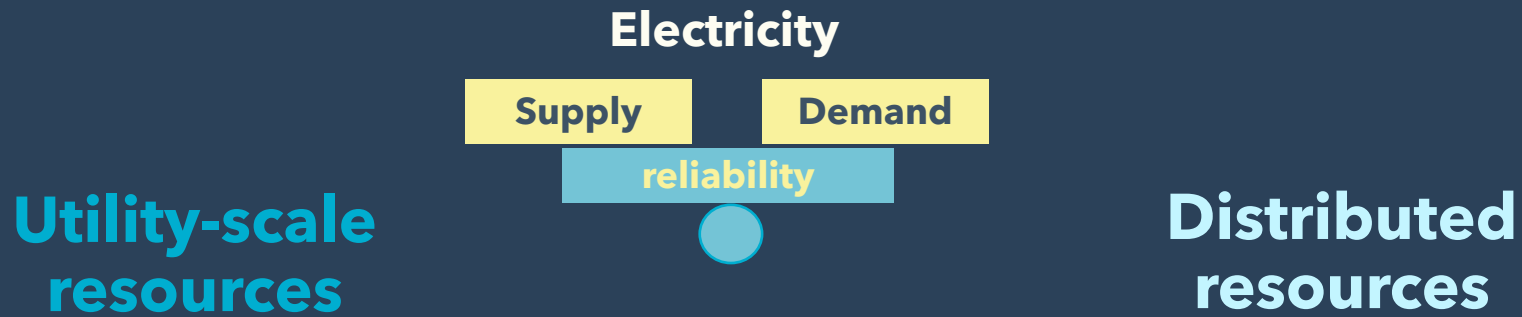
FROM: one-way power flow - large generation facilities to end users/customers

Two-way flow of power

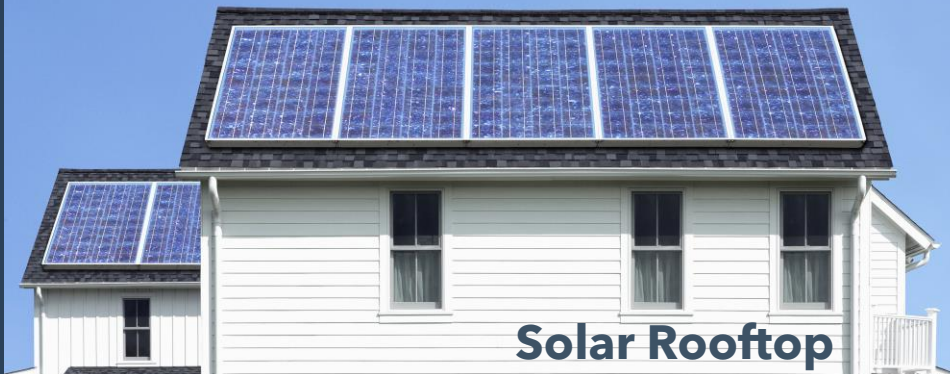
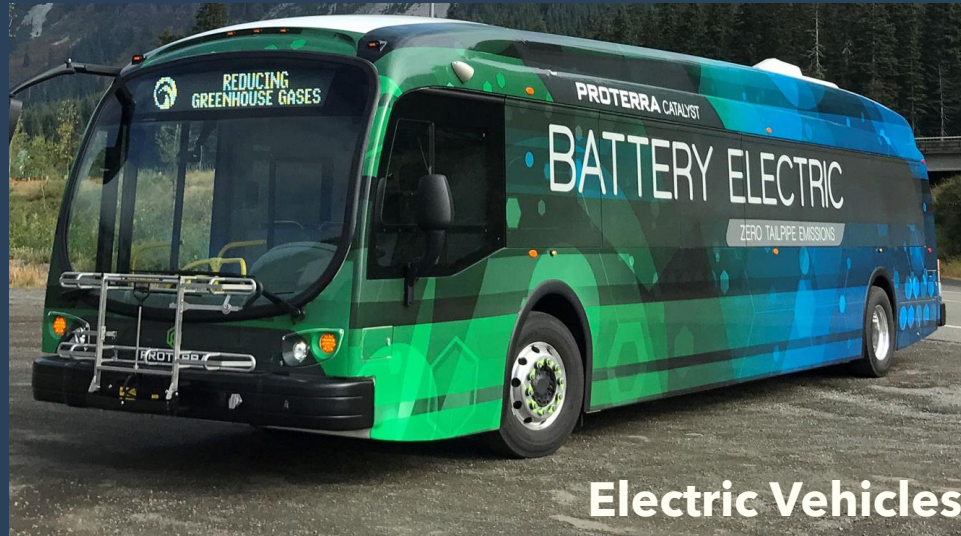


TO: two-way power flow - end users/customers can also generate power and/or interact with the electric grid

Types of energy needed to meet demand every day



Distributed Energy Resources (DER) examples:

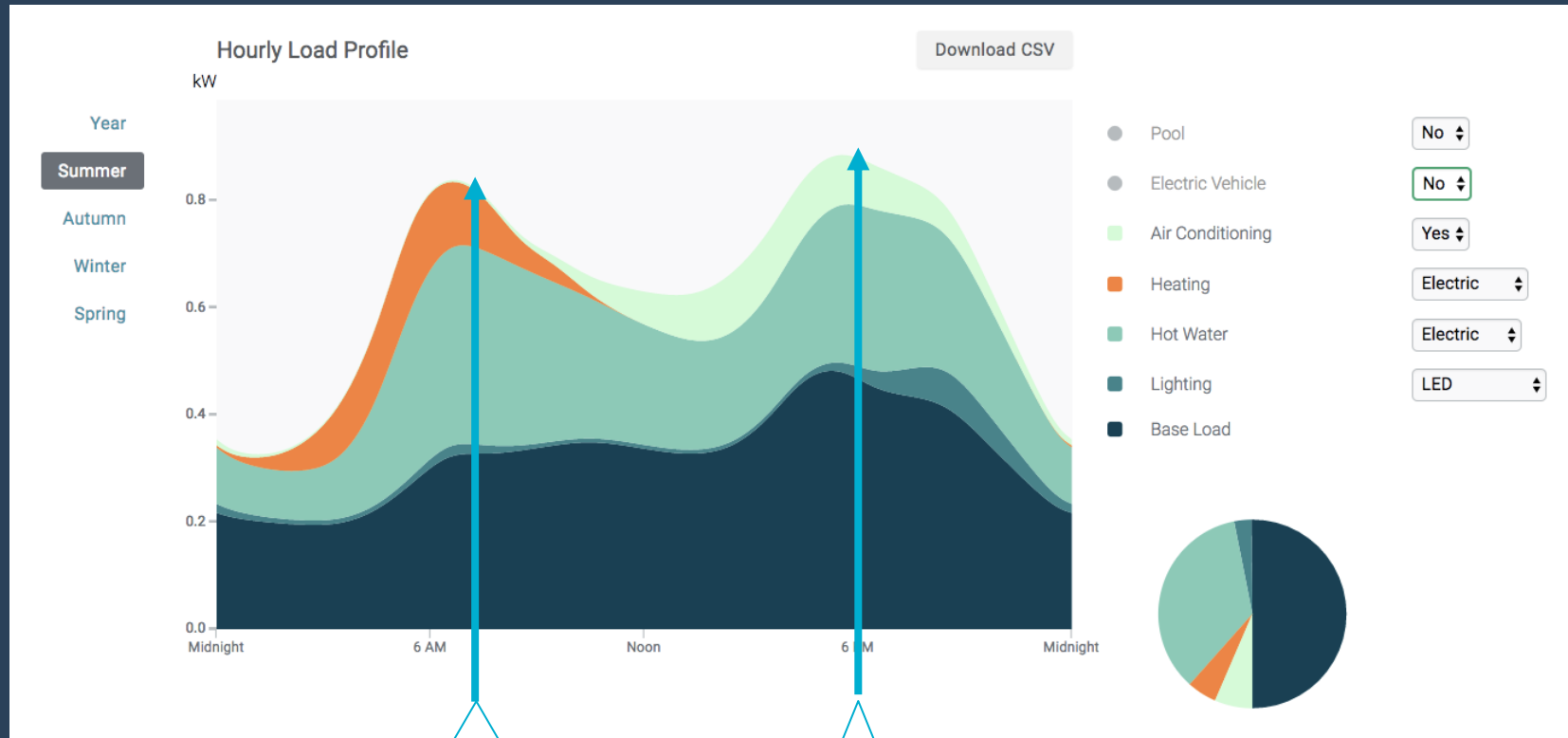


Electric Utility Operations



To ensure reliability, utilities must be capable of meeting customers' electricity demand at every second

Illustrative Example of demand for electricity on a summer day in Palo Alto, CA



People getting ready for day

People return home from work

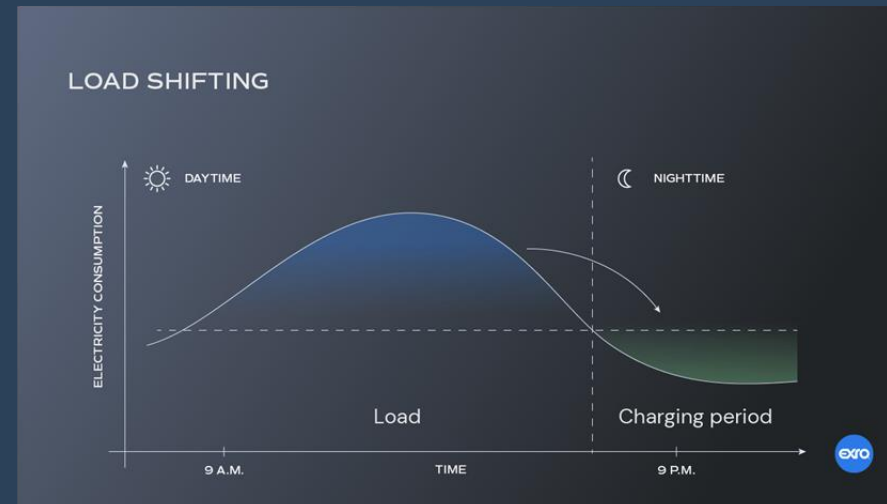
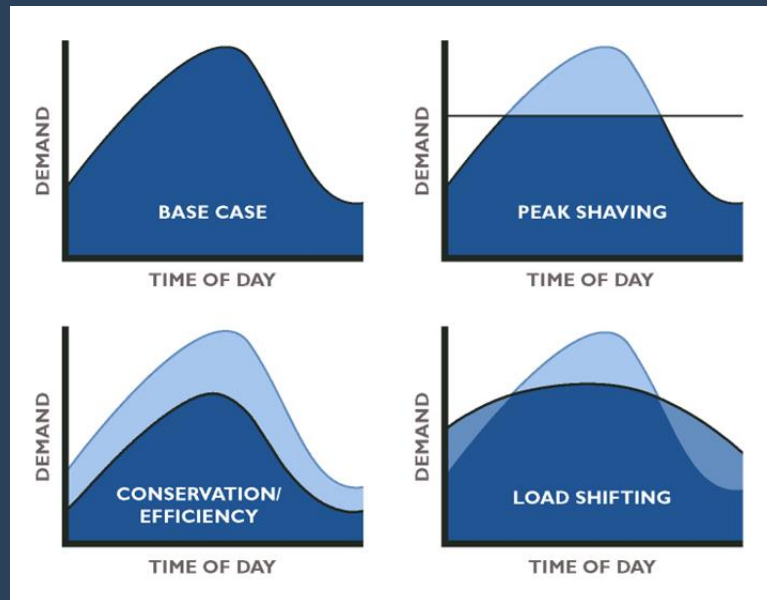
Source: [Aurora Solar](#)

Electric Utility System Planning

The system must be built to support the forecasted highest possible demand

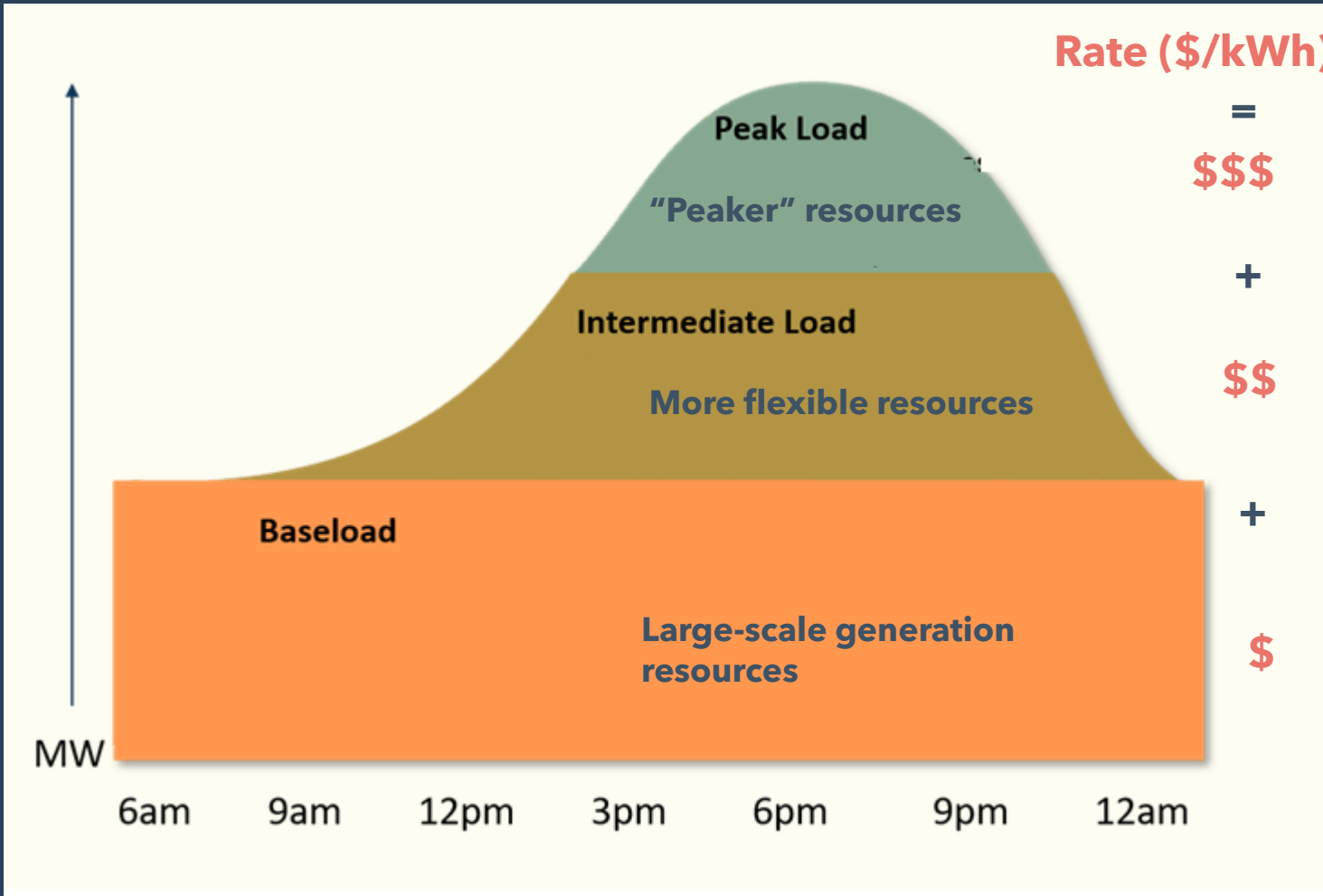
Increased energy demand requires additional:

- 1 Physical Infrastructure | generation facilities and grid capacity
- 2 **Energy Efficiency and Demand Response** | encourage a change in the use of electricity



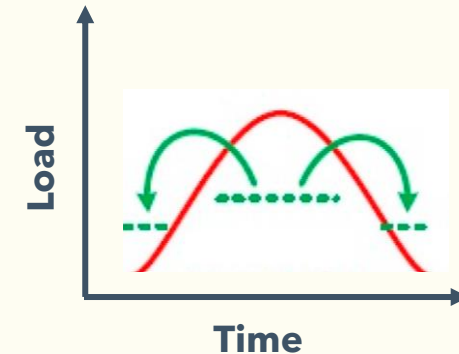
Scheduling energy resources to serve load

Resources used only when loads are highest (a few times per year) can have high price impacts



Demand Side Management

- Encourage a change in the use of electricity
- Move load from peak to off-peak
- Save customers money
- During extreme weather events can reduce the chance of brownouts and blackouts



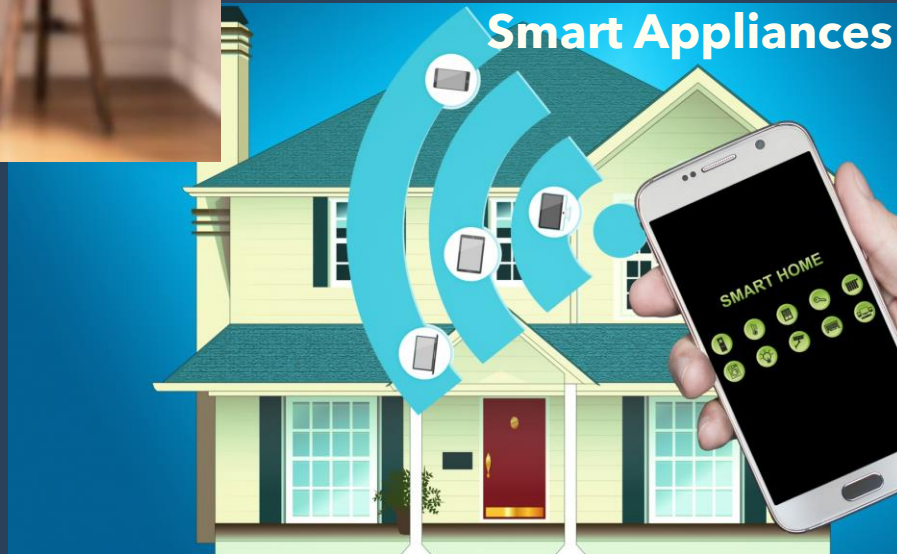
Smart Devices enable load flexibility



Smart Thermostats



Electric Vehicles

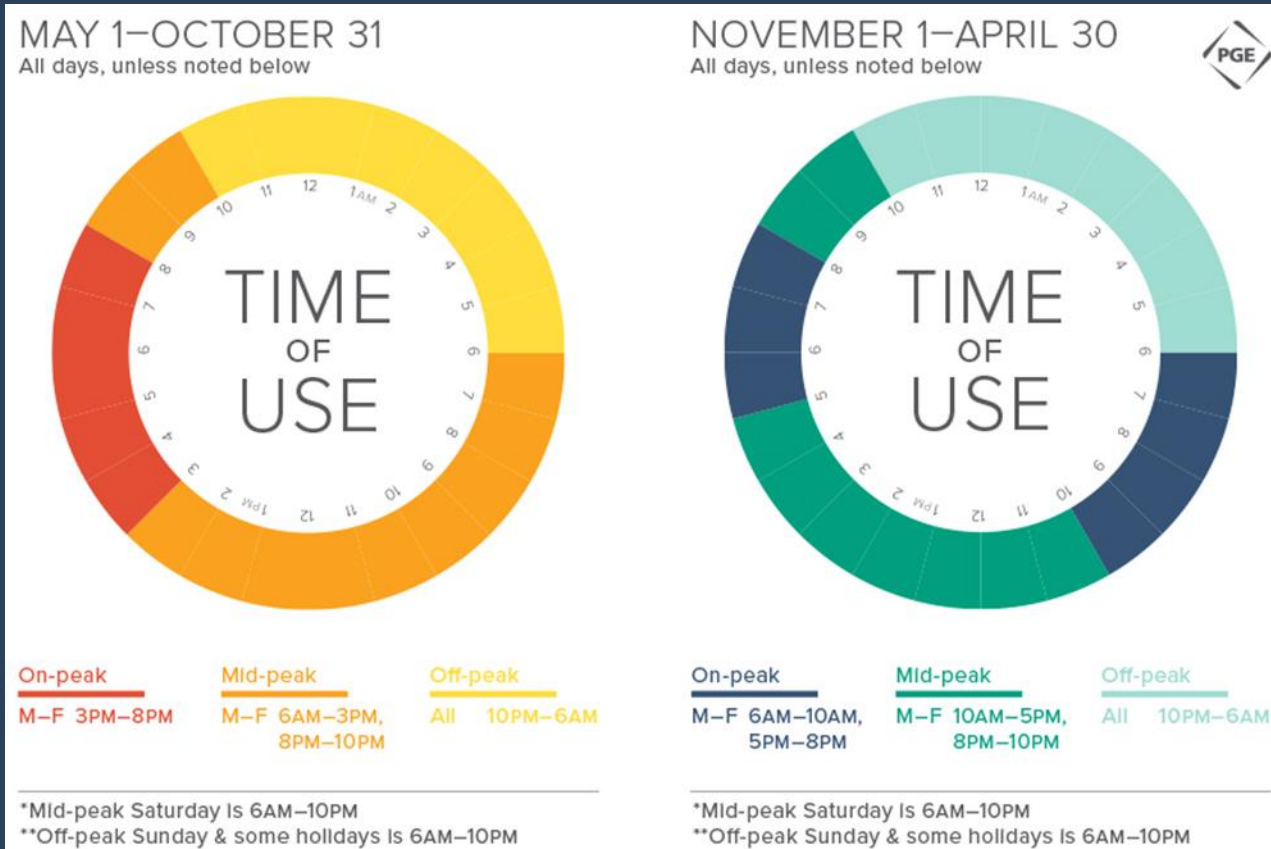


Smart Appliances



Water Heaters

Utility product & programs can encourage a change on the use of electricity



FACT:

The national average customer participation on Flex Load Programs is 12%; at PGE it is 22%.

Demand Response (DR) Event Example

Aug 4, 2021, from 5- 8 pm (3hrs)

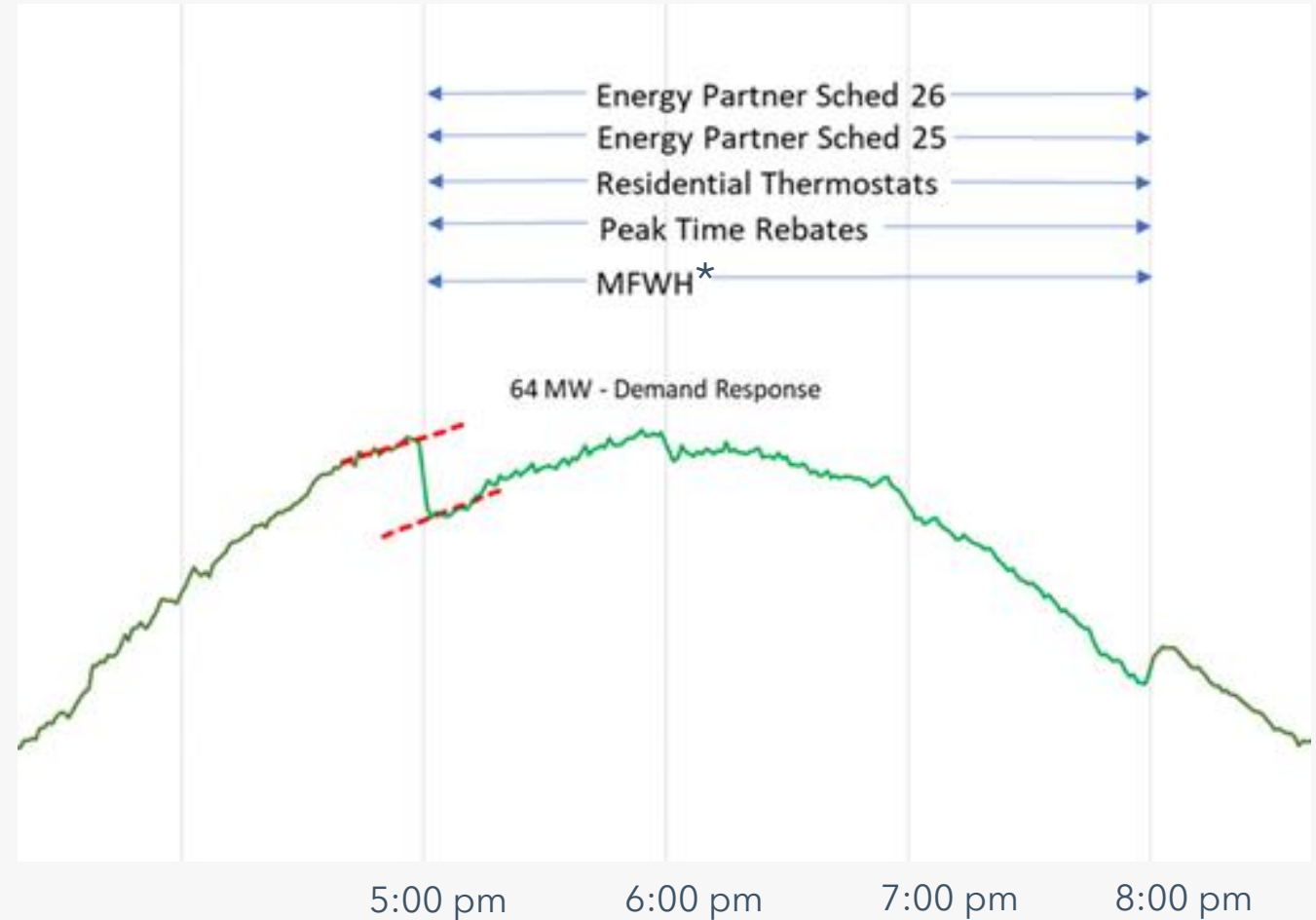
Summer 2021

11 Events

- 4 events in June
- 2 events in July
- 4 events in Aug
- 1 event in Sept

Range: ~25 MW ~69 MW

"All call" events consistently delivered 66 to 71 MW



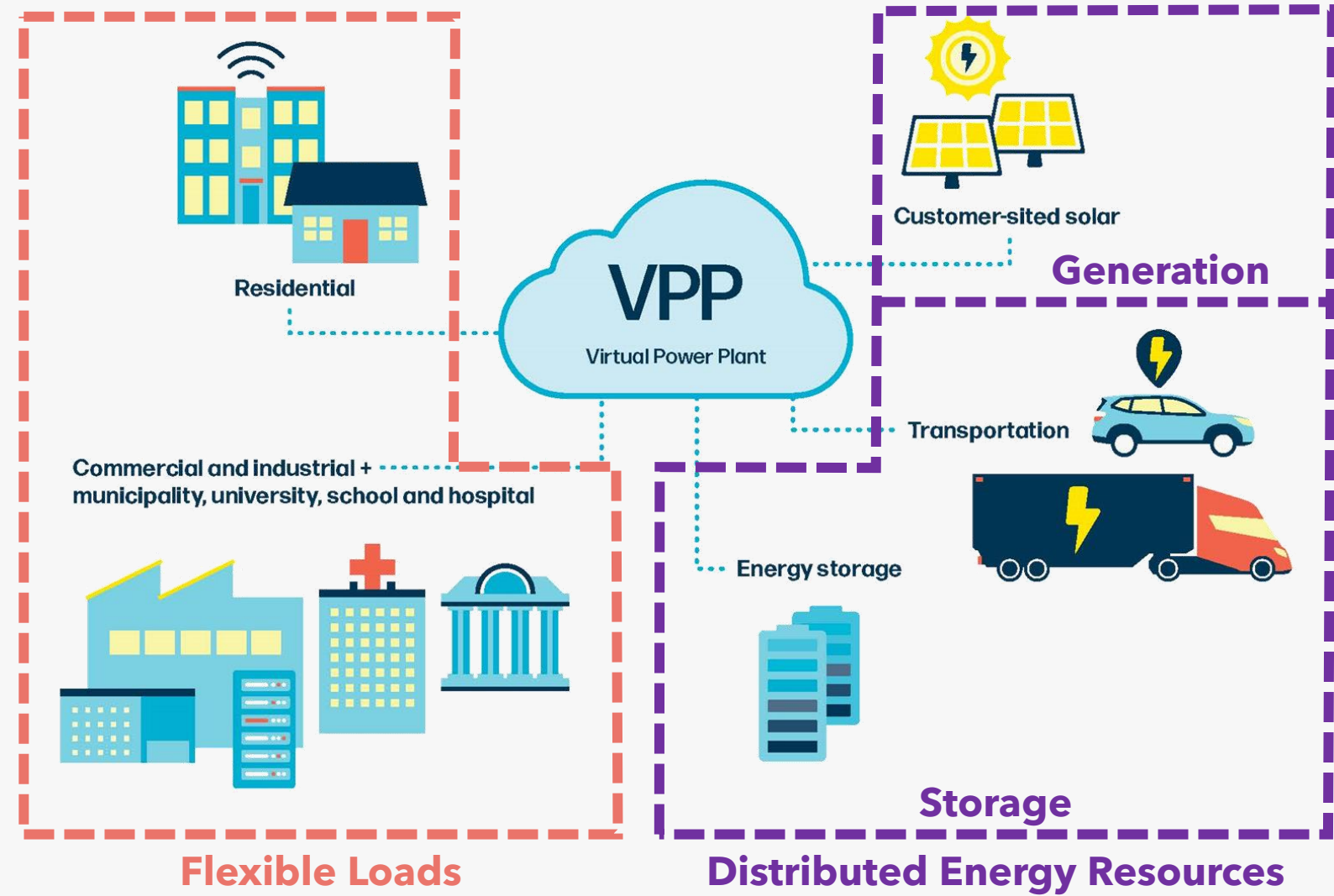
* MFWH: Multi-family water heater

PGE Virtual Power Plant



A Virtual Power Plant is:

a power plant, consisting of Distributed Energy Resources (DERs) and Flexible Loads, orchestrated through a technology platform, to provide grid and power operations services.



Next Steps

Moving the Flex Load Multi-year Plan (MYP) Advisory Stakeholders (FLASh) quarterly meeting to July's Learning Lab July 27

Flex Load Multi-year-plan budgeted investment

Discussion on a short form filing for the MYP

Programs – costs, benefits, and cost effectiveness

Questions/ Comments





CEP/ IRP Filing Questions and Answers

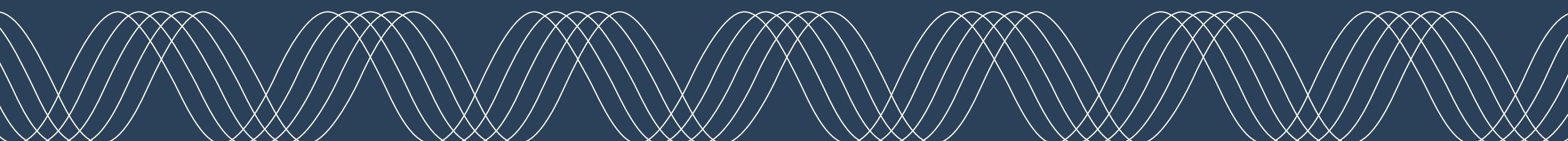
Nihit Shah, PGE

Learning Lab June 15, 2023

Clean Energy Plan and
Integrated Resource Plan
2023



Next Steps and Closing Remarks



Next Steps & Closing Remarks



- June 15 | 3:30-5p | PGE TEP Workshop at the OPUC | [UM 2033 meeting link](#)
- June 20 | 3-4p & June 26 | 1-2p | [Zoom](#) | TEP “Office Hours”
- June 21, July 5, July 19 | 3-4p | [Zoom](#) | CEP/ IRP “Office Hours”
- June 28 | 10a-12p | CBIAG monthly meeting
- July 27 | 10a-12p | [Zoom](#) | Learning Lab # 7



Meeting materials and recording will be posted to our CEP/IRP webpage at [Integrated Resource Planning and Clean Energy Planning | Portland General Electric](#)



For more information or if you have questions, please email us at LearningLab@pge.com



Please continue participating in our

- TEP process by submitting comments via [Docket UM 2033](#) by **July 13**
- CEP/IRP process by submitting comments via [Docket LC 80](#) by **July 20**

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kind of energy

Helpful Resources

Helpful Resources



PGE Outages and Safety

Website

[Outages & Safety
\(portlandgeneral.com\)](https://portlandgeneral.com/outages-safety)

Report by Phone

[503-464-7777](tel:5034647777) (Portland)

[503-399-7717](tel:5033997717) (Salem)

[800-544-1795](tel:8005441795) (Toll-free)



Medical Certificate Program

Website

[Powering Medical
Equipment - Outages |PGE
\(portlandgeneral.com\)](https://portlandgeneral.com/powering-medical-equipment-outages)

Phone

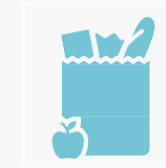
503-612-3838



Income-Qualified Bill Discount Program

Website

[Income-Qualified Bill
Discount Program
\(portlandgeneral.com\)](https://portlandgeneral.com/income-qualified-bill-discount-program)



SNAP Replacement Benefits

Website

[State of Oregon: Food
Benefits - Replacement
Benefits](https://odhsoha.oregon.gov/food-benefits-replacement-benefits)

Phone

800-699-9075

Email

[ssp.statewideworkshare@odhsoha.
oregon.gov](mailto:ssp.statewideworkshare@odhsoha.oregon.gov)

PGE Programs Offered to its Customers



Smart Thermostat Program & Rebates

Website

[Smart Thermostat Program & Rebates](https://portlandgeneral.com/smart-thermostat-program-rebates)
(portlandgeneral.com)



Time of Day

Website

[Time of Day](https://portlandgeneral.com/time-of-day)
(portlandgeneral.com)



Peak Time Rebates

Website

[PGE Rebates, Peak Time Rebates & Peak Use Shifting](https://portlandgeneral.com/pgerebates-peak-time-rebates-peak-use-shifting) | PGE (portlandgeneral.com)



Save Money at Home

Website

[How to Save Energy & Money On Electric Bills at Home](https://portlandgeneral.com/how-to-save-energy-money-on-electric-bills-at-home) | PGE (portlandgeneral.com)