

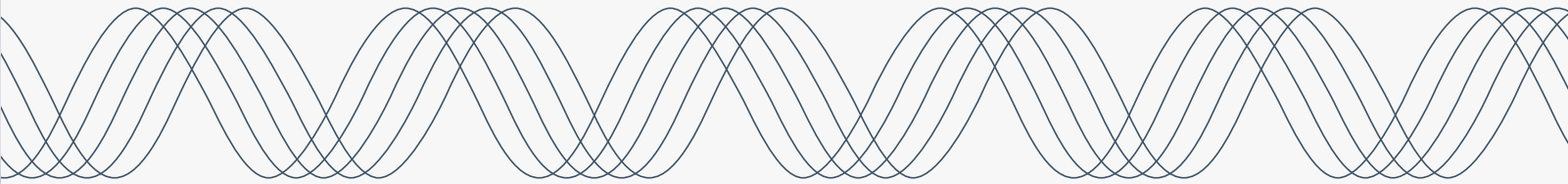


Community Based Renewable Energy

Acquisition process workshop

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October 20, 2023



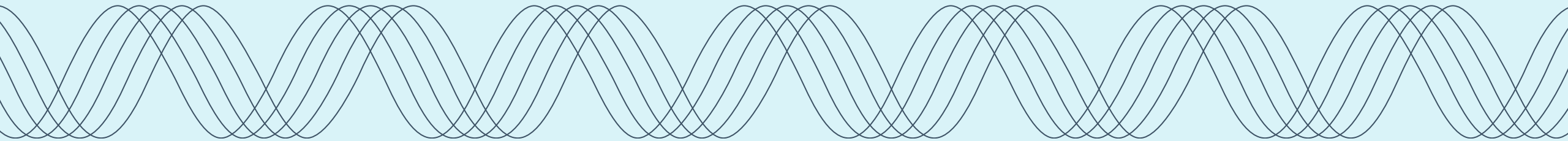
Purpose & Goals

Requirements

Timeline & Steps

Questions

Purpose & Goals



PGE's IRP Action Plan – Details

1. Customer actions

- Acquire all cost-effective energy efficiency (150 MWa cumulative 2024 - 2028)
- Incorporate customer demand response (211 MW summer & 158 MW winter by 2028)

2. Community-Based Renewable Energy (CBRE)

- CBREs are resources that are typically <20 MW that promote climate resilience, community benefits through a community benefits agreement or ownership
- Issue RFP for 66 MW of CBREs by 2026
- Conduct any additional RFPs necessary to achieve target of 155 MW by 2030
- Pursue federal/state incentives

3. Energy actions

- Conduct one or more RFPs for an additional 262 MWa (~750 MW nameplate) of non-emitting resources each year through 2028 (totaling 786 MWa)
- These resources are in addition to the ~1000 MW projected from the 2021 All-source RFP
- Additional renewables needed if energy efficiency, demand response don't materialize
- Successful acquisition of CBREs and/or the renewal of existing contracts can reduce energy need

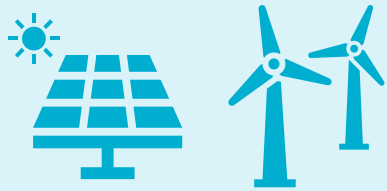
4. Capacity actions

- Significant 2028 capacity need: 624 MW summer, 614 MW winter
- This need is estimated assuming the 400 MW of capacity resources acquired from the 2021 All-source RFP
- Will pursue staged approach: 1. acquire cost-competitive options in the bilateral market; 2. acquire CBREs, EE, and DR; 3. conduct one or more RFPs for remaining need
- Successful acquisition of CBREs and/or the renewal of existing contracts can reduce capacity need

5. Transmission

- Pursue options to alleviate congestion on the South of Alston (SoA) flowgate
- Explore options to upgrade the Bethel-Round Butte line (from 230 to 500 kV)

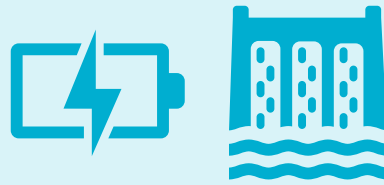
What are we looking for in CBRE proposals?



Renewable Energy

Interconnected to transmission or distribution system

Small-scale (<20 MW in aggregate)



Dispatchable Capacity

Paired with a dispatchable capacity product (either co-located or virtually paired).

Capacity could be controllable DR.



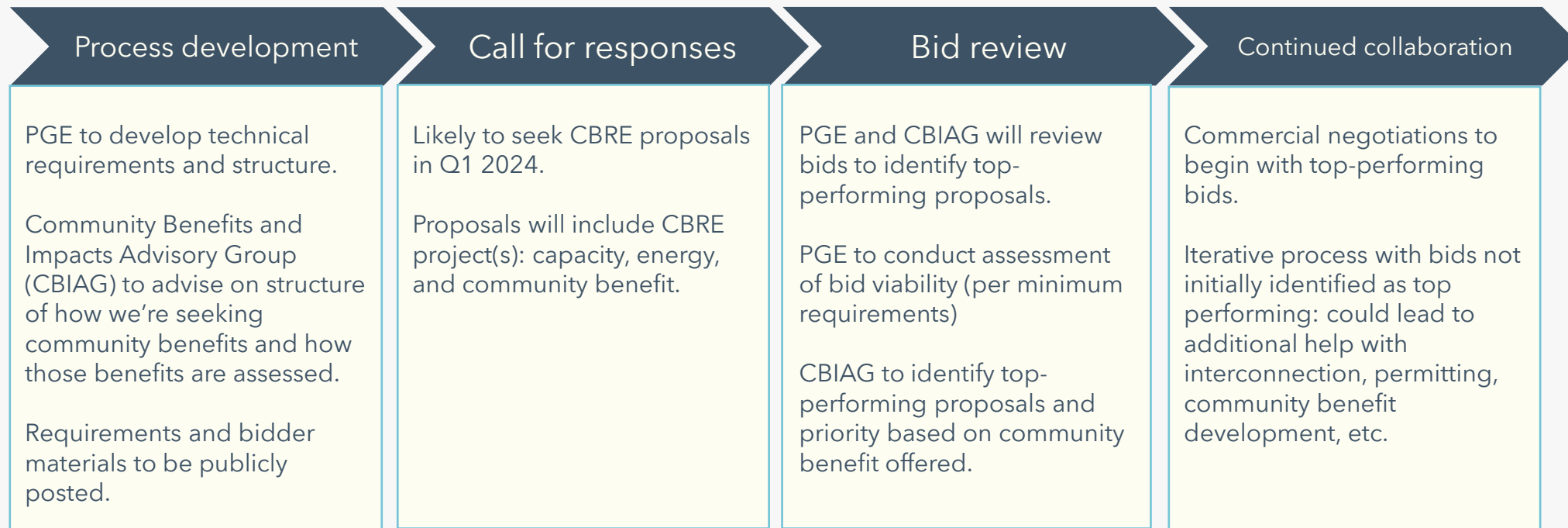
Community Benefit

Provides a direct benefit to a particular community through a community-benefits agreement or direct ownership.

(e.g., increased resiliency or community stability, local jobs, economic development, and/or direct energy cost savings to families and small businesses.)

Anticipated Process Flow

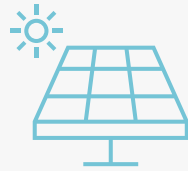
Our intent is for a process that is iterative and collaborative, we want to see a robust response and a successful bid pool.



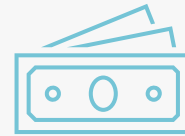
Project Goals



Maximize
Community Benefits



Add new Clean
Energy to PGE's grid

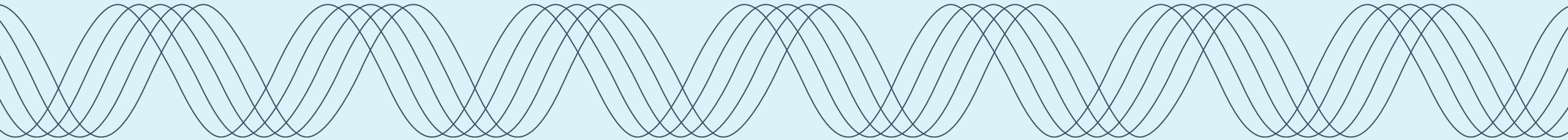


Leverage grant
funding



Elevate Community
Input

Requirements



Project Economics – resource and community benefit indicators (CBIs)

Cost of Resource

Asset purchase price
(\$/MWh)

Traditional resource
metrics

Cost of Community Benefit

Estimate and describe how resource cost was impacted by designing for CBIs (\$/MWh) (e.g., project siting)

Itemize cost of any CBI(s) that are not baked into cost of resource (e.g., educational benefits)

Value of Community Benefit

Justify & quantify value of CBI(s) (e.g., reduced costs, increased efficiency, address unmet utility need, etc)

Additional funding

Identify additional funding source to cover cost of any CBIs whose cost can't be justified to rate payers but is highly valued in community

Minimum Requirements

Environmental

Volume

Project Types

Commercial Structure

Term

Interconnection

Pricing

Energy Resilience

Value-to-cost evaluation

Telemetry & Communication protocols

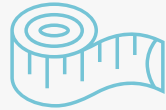
Labor & Construction

CBI



Identify

Define which CBIs are applied to project(s)



Value

Quantify value based on knowledge of our system, community, and opportunity



Justification

Describe outreach or collaboration completed to confirm value to PGE customers / community



Funding

Identify which portion is included in the cost vs. covered with grant funding



Guarantees

Describe how CBI delivery will be measured, reported, and guaranteed

Example CBI: Resiliency



Reduction in recovery time of a local community in the aftermath of a natural or human-made disaster.



Safety net resource for highly vulnerable households to reduce the negative effects of power outages and extreme conditions

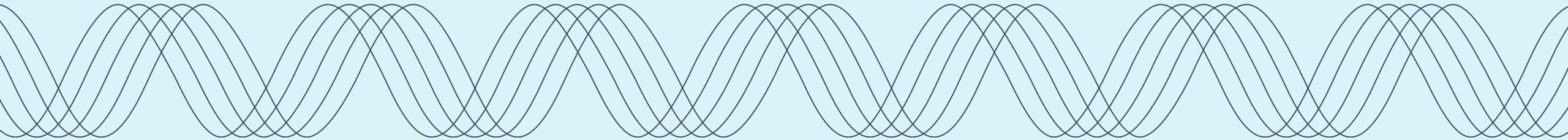


Increased renewable generation within and for our communities.



Operational cost savings for host sites that can be passed to community members.

Timeline / Next Steps



Potential timeline – draft, subject to addition and/or change



Questions / Feedback

