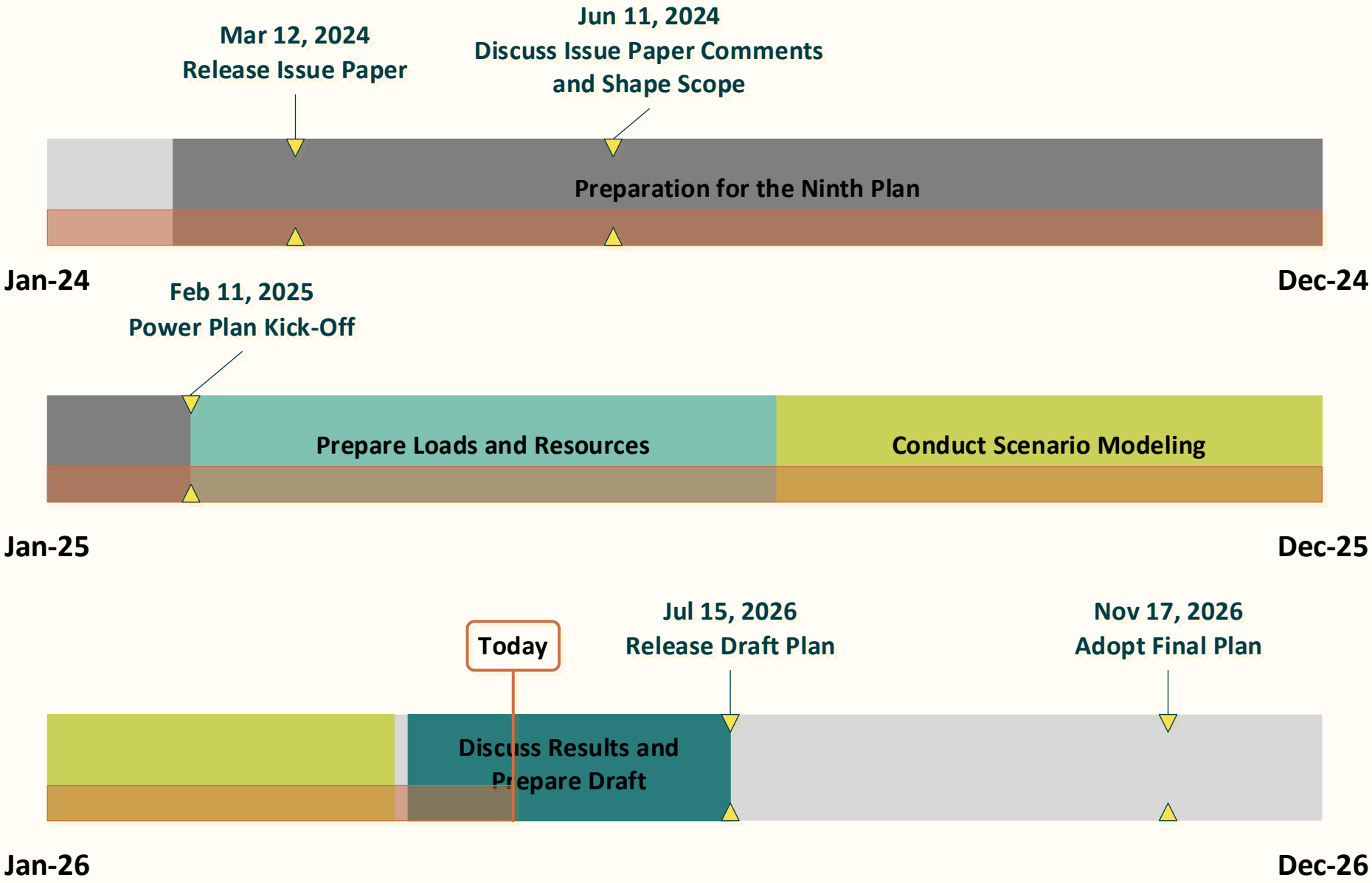
Council's Ninth Power Plan, preliminary results

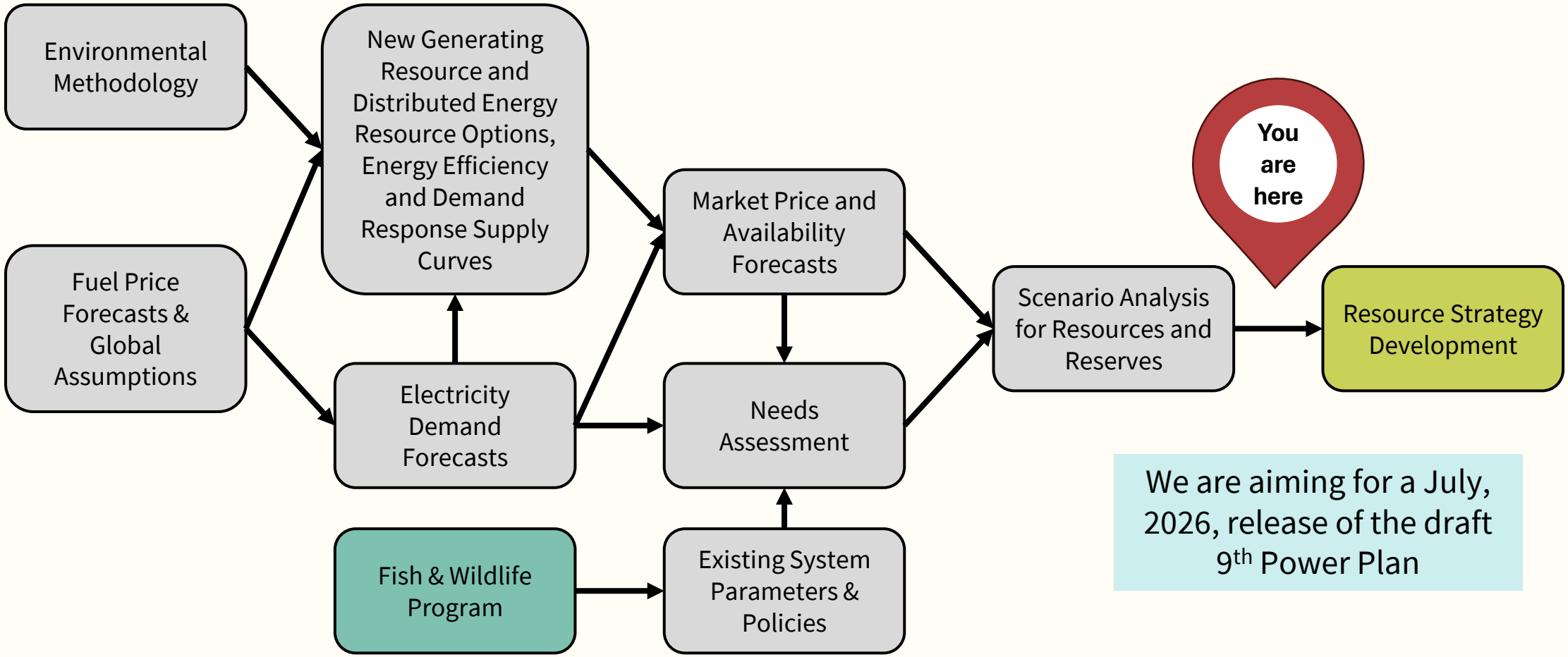
PNREC

May 2026

Northwest **Power** and **Conservation** Council


Mar 12, 2024
Release Issue Paper
Jun 11, 2024
Discuss Issue Paper Comments
and Shape Scope
Preparation for the Ninth Plan
Jan-24
Dec-24
Feb 11, 2025
Power Plan Kick-Off
Prepare Loads and Resources
Conduct Scenario Modeling
Jan-25
Dec-25
Today
Jul 15, 2026
Release Draft Plan
Nov 17, 2026
Adopt Final Plan
Discuss Results and
Prepare Draft
Jan-26
Dec-26

Power Plan Development Process



We are aiming for a July, 2026, release of the draft 9th Power Plan

Regional Resource Optimization

Data are translated into MW and costs, guiding decision making

Resource costs
(capital and ongoing)

Resource availability
(online dates, min/max generation requirements, resource profiles)

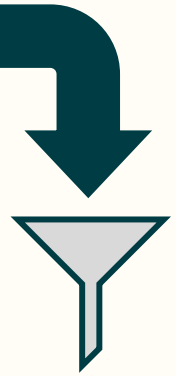
Adequacy requirements
(energy and capacity reserve margins)

Reserves
(dynamic probabilistic reserves, planning, contingency, etc.)

Hydro system constraints
(spill, storage, outflows, irrigation, etc.)

Policy requirements
(emissions costs & energy targets)

As the model steps through years and futures, it is seeking to meet the needs (MWs) at the least cost, across the range of futures tested



Regional Buildout

Modeled Sensitivities to Capture Uncertainty

New Resources and Transmission Risk

- Constrained Resources and Transmission
- Changing Transmission Availability
- Changing Emerging Technology Costs
- Limited Short-Duration Storage Availability
- Slower Demand Side Resource Availability
- Evolving Federal Policy Landscape

Changing Hydro Operations

- 2020 BiOp Flex Spill Operation
- 2023 RCBA Operation
- Recommended Spill and MOP Targets
- Limited Flex Operation

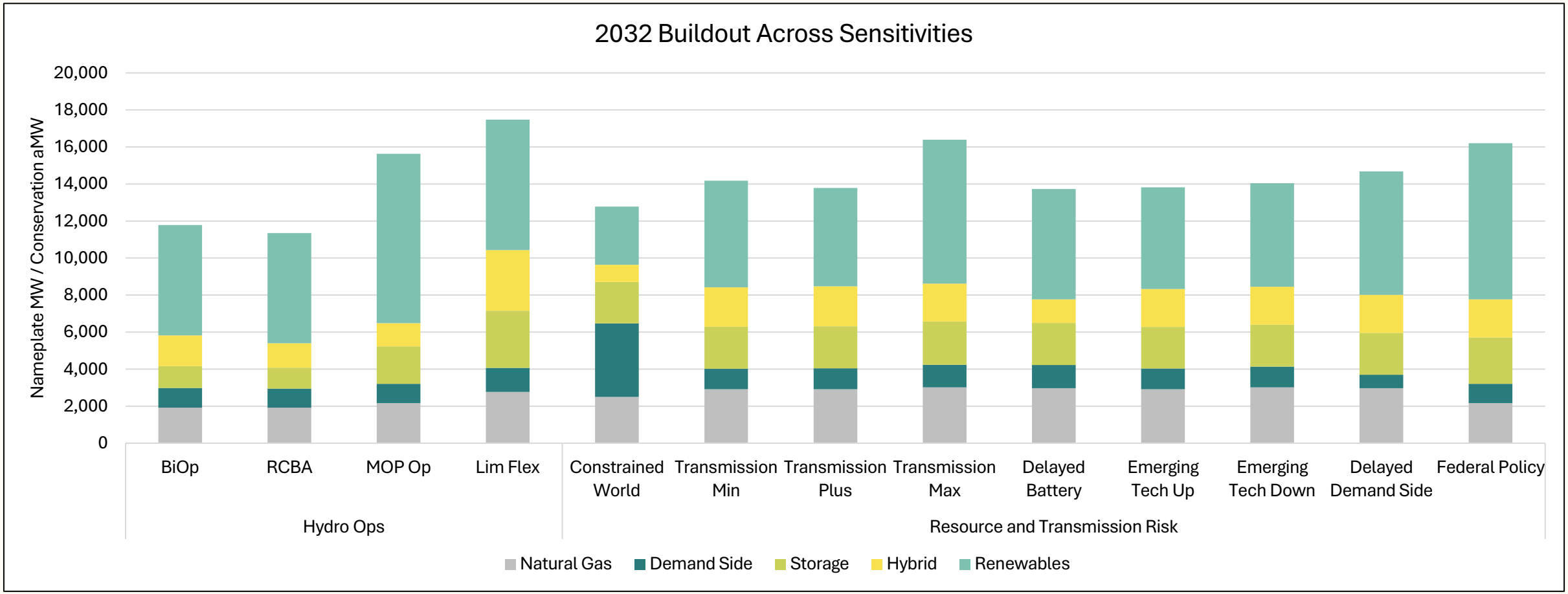
Preliminary Results

Before Getting Into Results

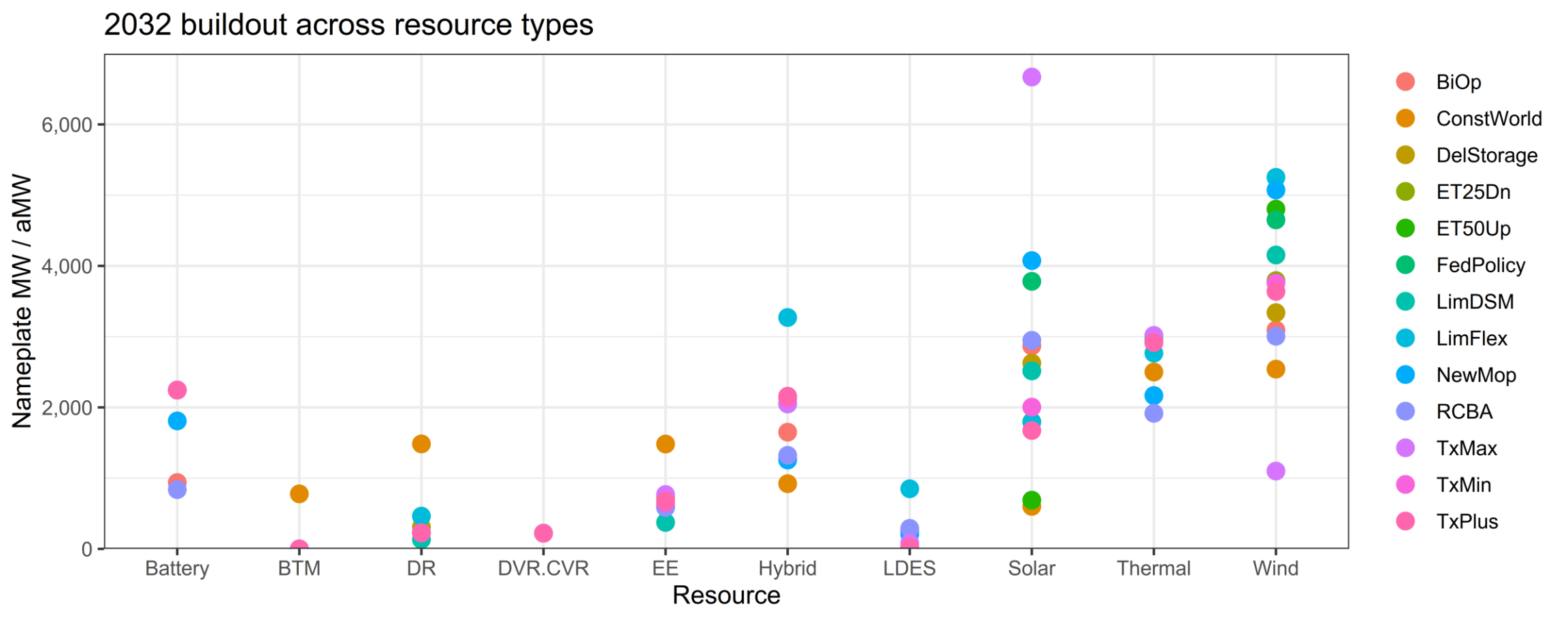
- These modeling results are **not** the power plan
- Rather, the results are intended to provide guidance around what resources (and in what amounts) are robust across a range of uncertainty and what resources (and in what amounts) might protect against certain risks
- We are actively sharing the modeling results with as many people as possible, so that we can bring the collective insight to the members as we develop a strategy
- Ultimately, Council will use the information from these studies, in addition to other analysis, to develop a resource strategy and supporting recommendations
  This is the power plan

Total Buildout in 2032

Conservation is in energy (aMW), while the rest are in terms of nameplate capacity (MW)

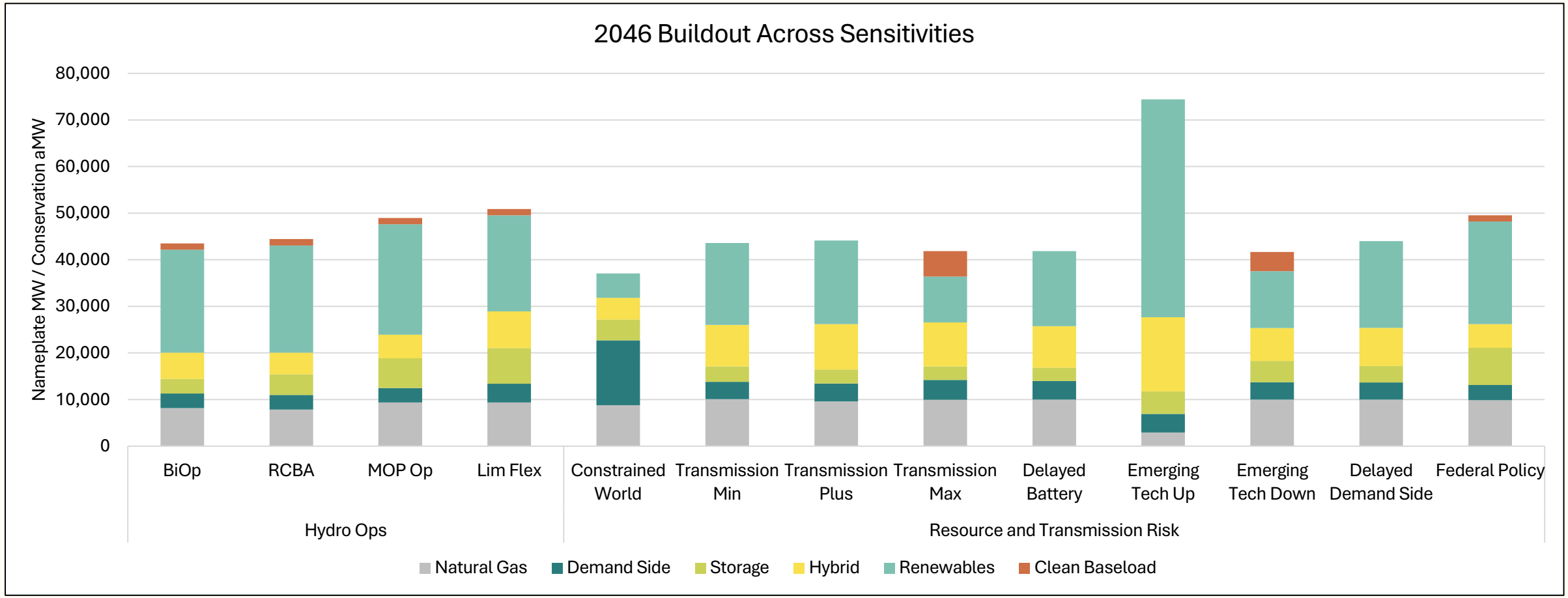


A Portfolio of Resources is Needed to Meet a Diverse Set of Needs

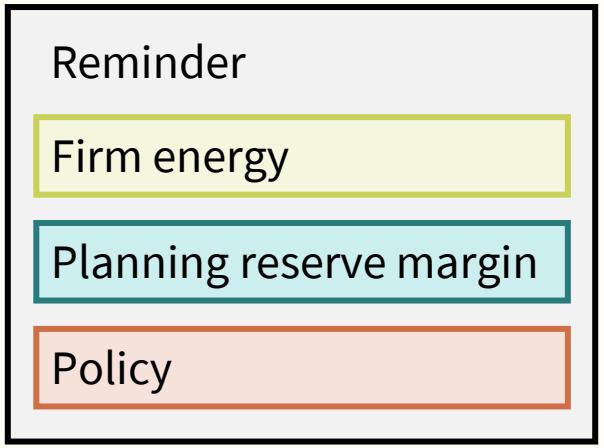


Total Buildout in 2046

Conservation is in energy (aMW), while the rest are in terms of nameplate capacity (MW)



Conservation Results

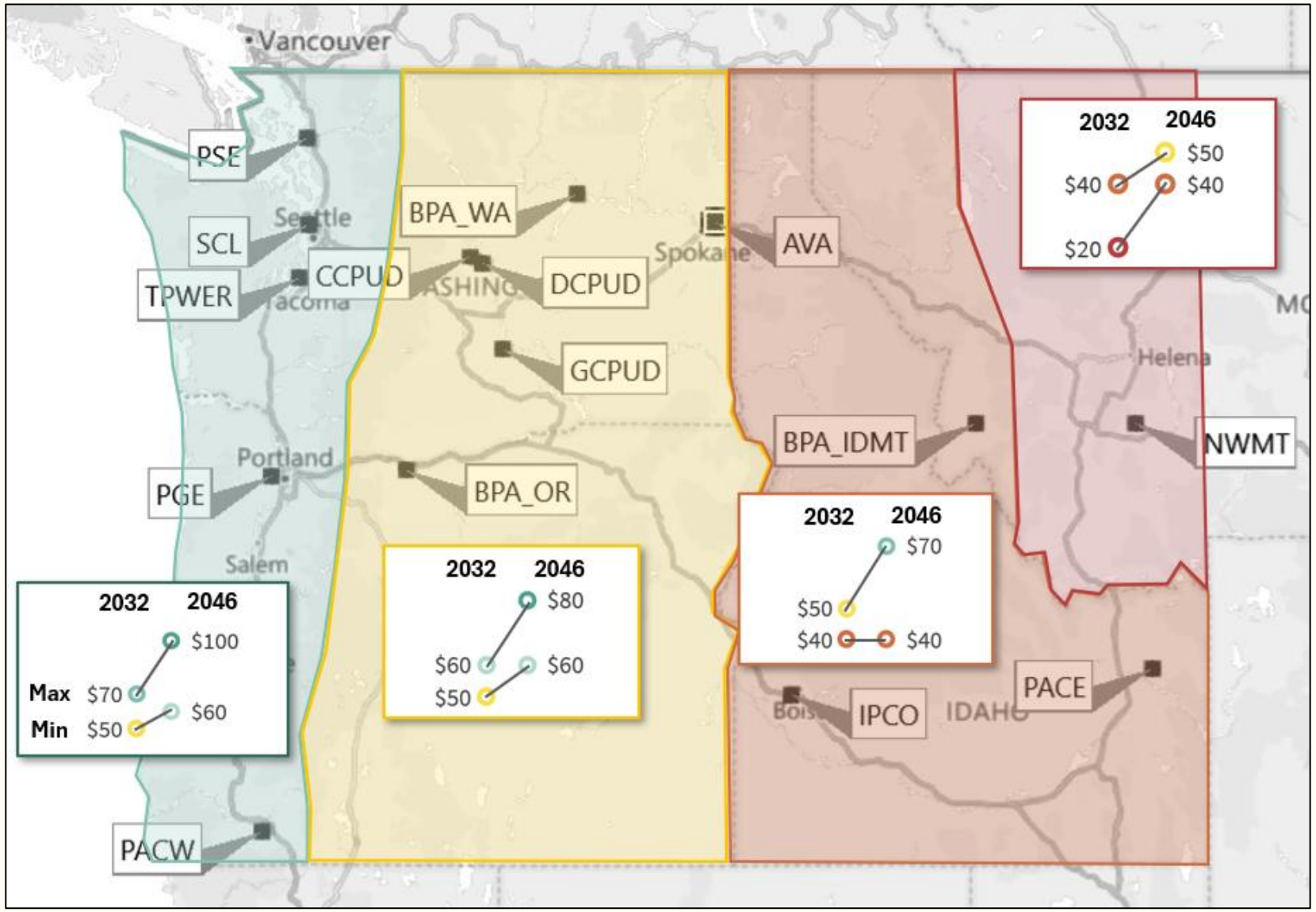


- Conservation is acquired in all sensitivities
- See a relatively consistent signal across sensitivities, with two exceptions:
  - Less conservation is acquired in sensitivities that assume renewable tax credits, as those resources become more cost competitive
  - More (and significantly more) conservation is acquired when there are constraints on the supply side
- The value of conservation changes by sensitivity, snapshot year (it wants more expensive conservation over time), and location

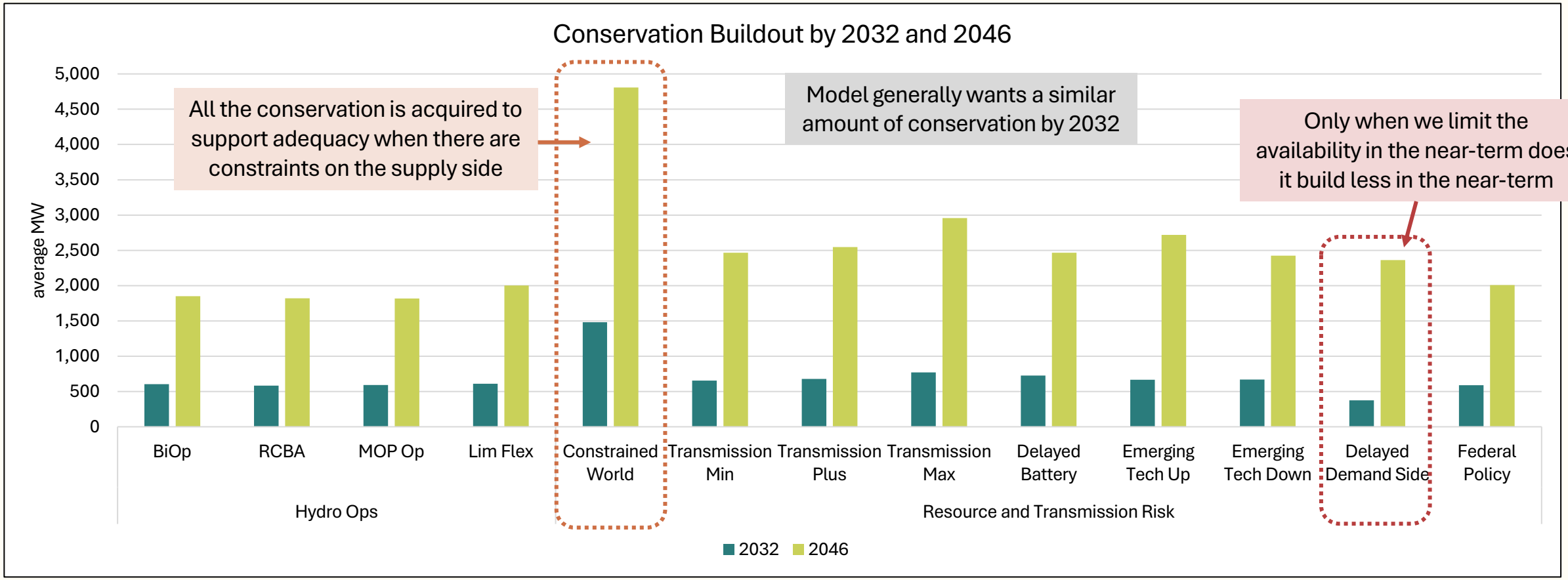
Costs Across the Region

- Shaded areas show generally consistent costs in the zones
- Min and Max are for those zones in the shaded area based on variance across sensitivities
- Time period shows the trend in cost increases across all zones

⚠ Does not include costs of constrained world sensitivity

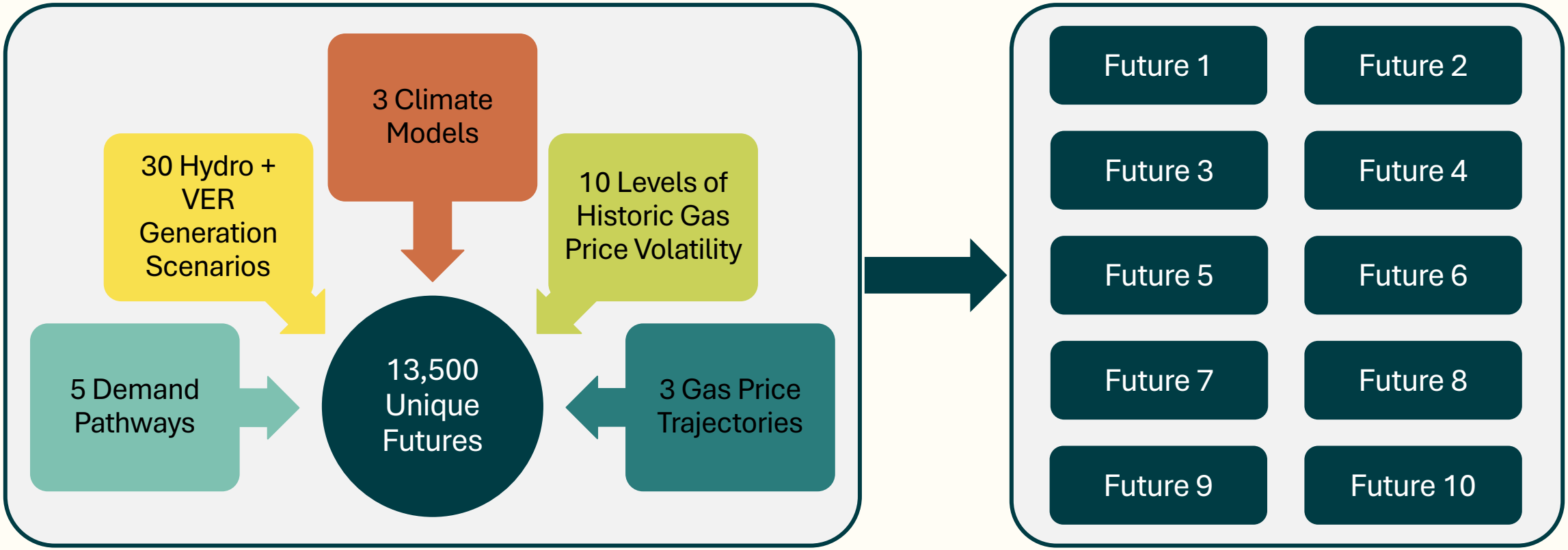


Conservation Buildout



Extra slides

Developing Futures to Capture More Uncertainty



For each year modeled, we resampled the uncertainty to create a different set of futures

Approach to Modeling the 20-Year Horizon

- Developed “snapshot” years to capture information on decisions over time
- Resource decisions in certain years will be “locked in” to guide decisions in later years
  - This helps ensure adequacy in the buildout
  - For example, resource acquired in 2032 will still be available in 2046, so we want to provide that information to the model
- We are not locking in every year to allow the model some foresight