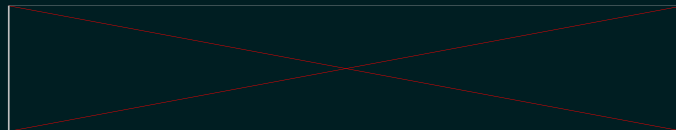


Council's Ninth Power Plan

Modeling under uncertainty

PNREC

May 21st, 2026



About the Council

- 1980 Northwest Power Act authorized Idaho, Montana, Oregon, and Washington to create the Northwest Power and Conservation Council
- Responsibilities under the Power Act:
 - Developing a power plan to assure the Northwest has an adequate, efficient, economical and reliable power supply
 - Developing a program to protect, mitigate and enhance fish and wildlife affected by hydroelectric facilities in the basin
 - Informing and involving the public
- Council is currently drafting its Ninth Regional Power Plan



The 9th Northwest Power Plan

Developing Ninth Power Plan

- Goal is to ensure an adequate, efficient, economical, and reliable power supply
 - Focused on the electric system
 - Provides a 20-year perspective, with a near-term focus
 - Aims for a resource strategy, and supporting recommendations to meet regional needs while managing costs and risk
- Will include recommendations for the region, but with particular focus on Bonneville Power Administration

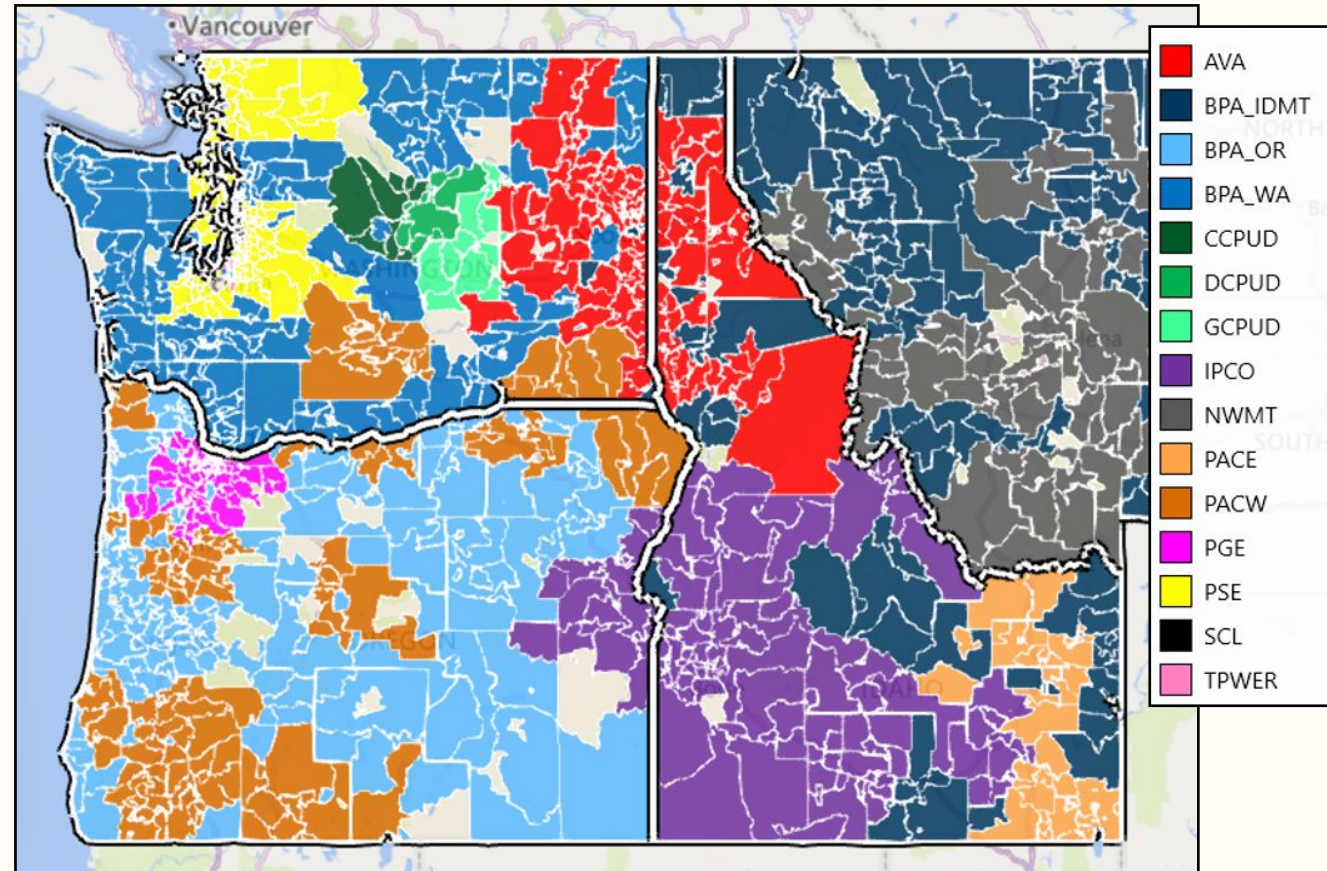


**The 9th Northwest
Power Plan**

Balancing Authorities

- BPA & 12 BAs

- Avista
- Chelan County PUD
- Douglas County PUD
- Grant County PUD
- Idaho Power
- Northwestern
- PacifiCorp (East & West)
- Portland General
- Puget Sound
- Seattle City Lights
- Tacoma Power



**Not an exact representation of BA boundaries. Slight inaccuracies may exist due to overlapping layers*

Timeline

202

5

Jan – Mar

Initial kick-off and early scoping of plan and developing early inputs (e.g. gas price forecasts, global assumptions)

Apr – Jun

Finalizing load forecast approach and new supply and demand-side resource options and potential

Jul – Sep

Finalizing scoping of scenario modeling and starting analysis for the Changing Hydro Operations Scenario

Oct – Dec

Continuing scenario modeling for both scenarios

202

6

Jan – Mar

Finalizing scenario modeling and start sharing results

Apr – Jun

Developing draft resource strategy and related recommendations

Jul – Sep

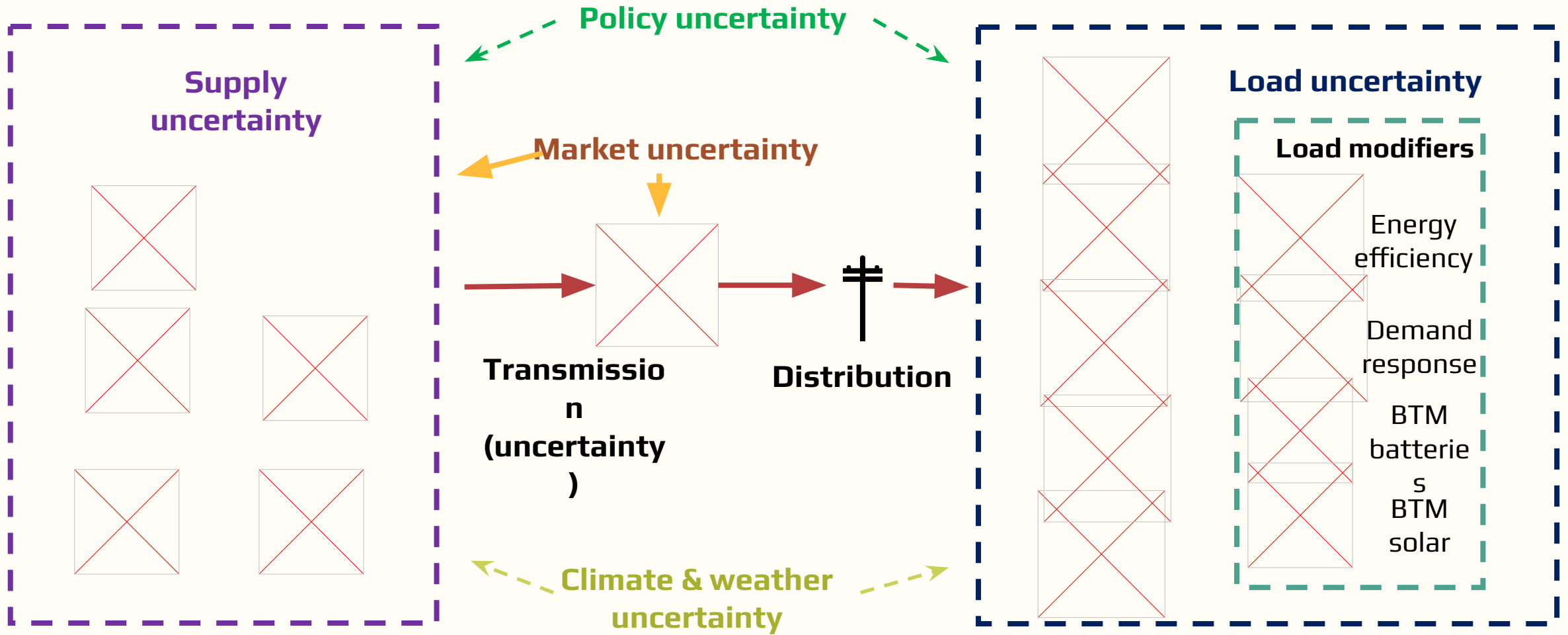
Releasing draft Power Plan and initiating public comment process

Oct – Dec

Finalizing the Ninth Power Plan

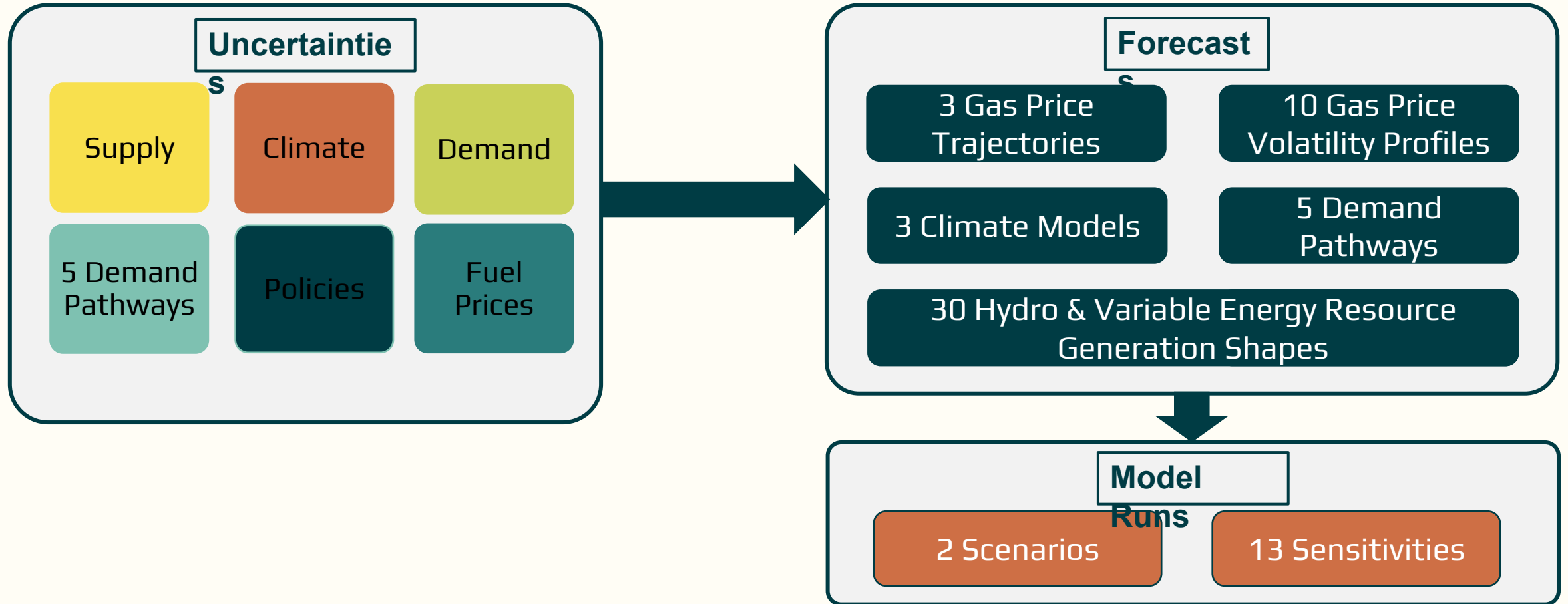
Modeling Uncertainty

Bulk Power System Uncertainty



Key question: how do we represent bulk system risk?

Capturing Uncertainty



Key Questions for this Power Plan

Scenario Modeling

New Resource and Transmission Risk Scenario

Informing how resource selection changes with uncertainty around new resource availability and costs and a changing transmission landscape

Estimating 13 sensitivities to explore these uncertainties

Changing Hydro Operations Scenario

Informing how the uncertainty around future hydro operations impacts the optimal resource solutions for the region

Uncertainty Represented by Futures

Extreme Weather

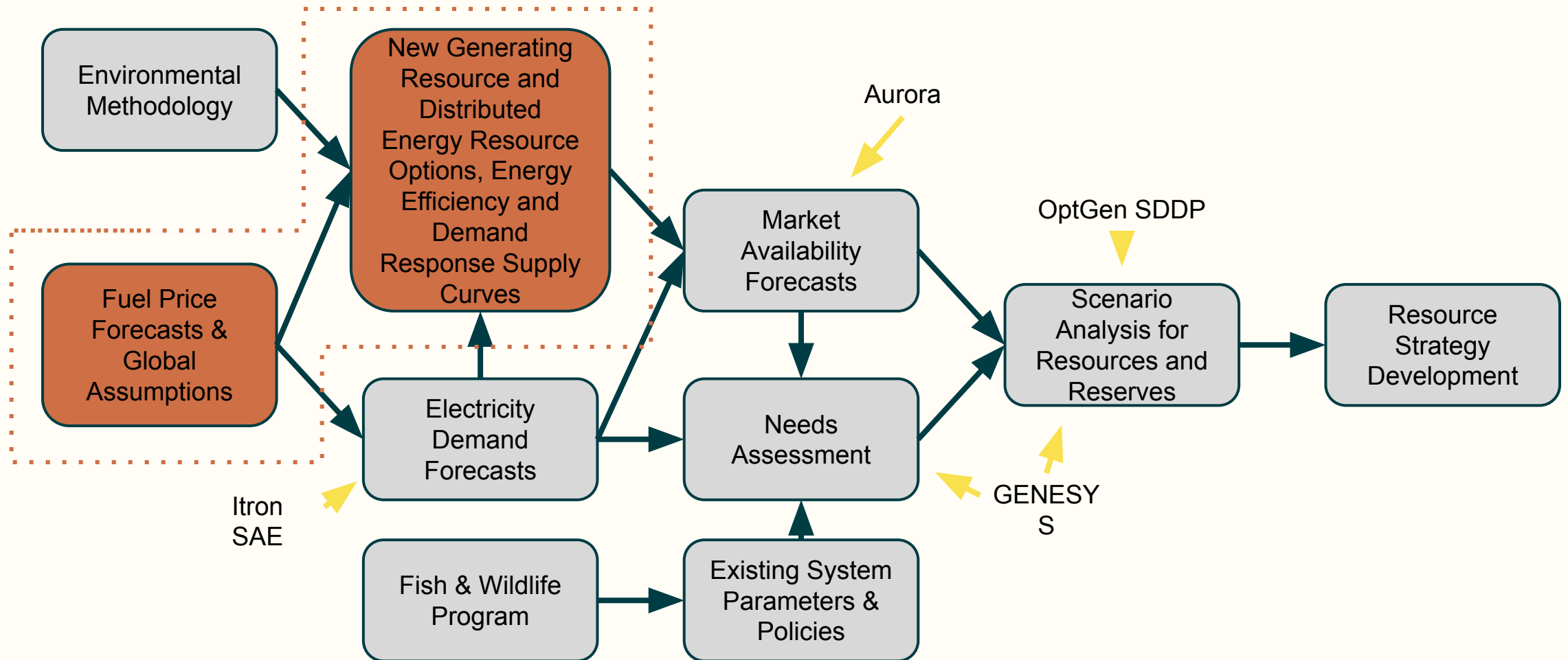
Developed a suite of futures to reflect a range of hydro conditions, temperatures/loads, and wind conditions

Modeling ~13,500 futures to represent these uncertainties

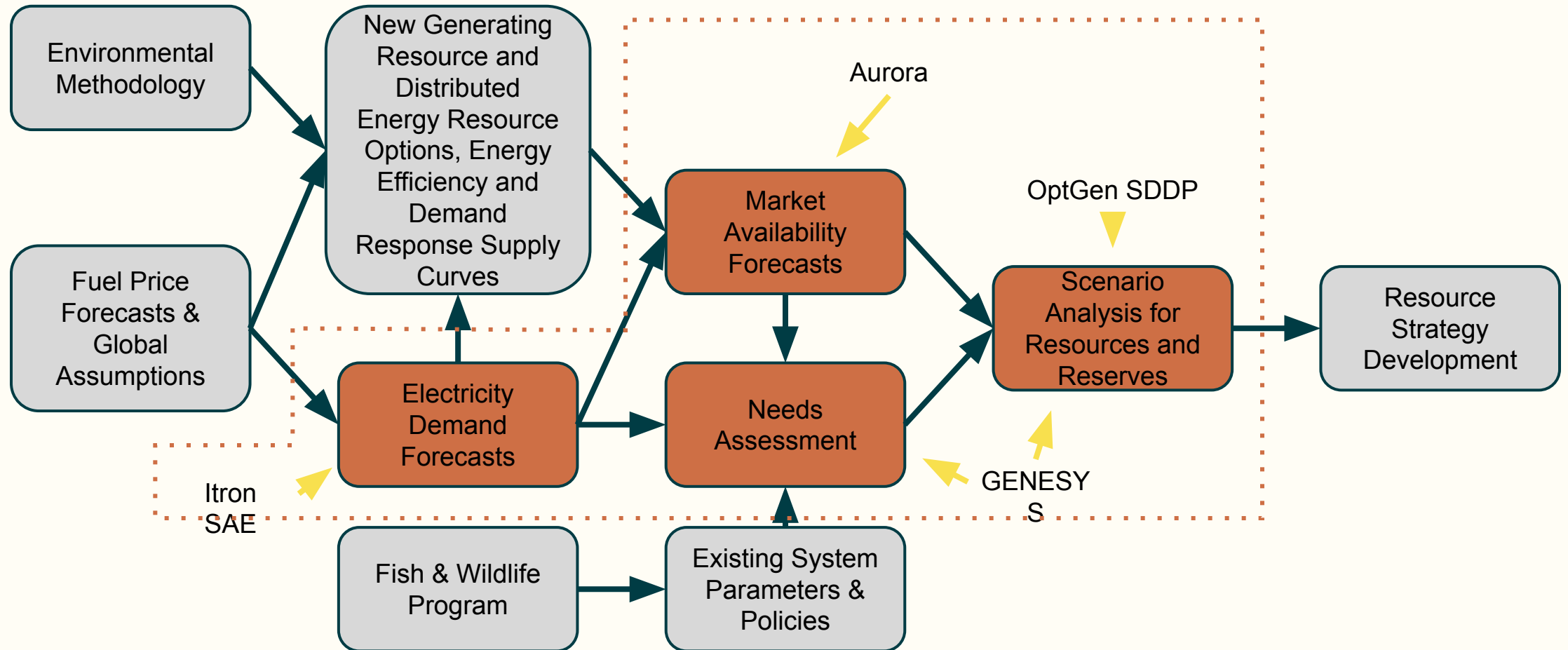
Load Growth Uncertainty

Developed a suite of futures to reflect uncertainty around the amount, shape, and timing of new load growth

Power Plan Elements and Analytical Flow



Power Plan Elements and Analytical Flow



Thank you!

Jake Kennedy

jkennedy@nwcouncil.org

