

# CenterPoint IRP Tech to Tech Modeling Update

October 31, 2022



# Tech to Tech Overview

- Content presented today, or provided following this meeting as part of this Tech to Tech series, is confidential and cannot be shared with individuals who have not signed an **NDA** as part of this IRP process.
- A summary of non-confidential slides presented today will be posted to the IRP website.
- These are DRAFT results. These files are being provided to facilitate ongoing modeling discussions and gather input.

# Agenda

- Purpose
- Timeline
- Model setup
- Updates to be made
- Preliminary Reference Case Portfolio

# Tech to Tech Meeting Purpose

- The intent of this meeting is to:
  - Share the status of the IRP modeling process
  - Provide draft EnCompass Modeling files following the meeting
  - Demonstrate and gather feedback on model setup or big picture modeling assumptions
- The content shared as part of this meeting is NOT:
  - Final - there are numerous updates to be made to the model
  - The preferred portfolio. The resources being selected will likely change as inputs are refreshed and before draft scenario results are presented at the next stakeholder meeting.

# Modeling Timeline

## Begin Modeling

Gather draft inputs and begin inputting data into model

Q3 2022

## Draft Portfolios

Draft scenario optimization runs and updated inputs for 3<sup>rd</sup> stakeholder meeting

Dec. 2022

## Preview Preferred Portfolio

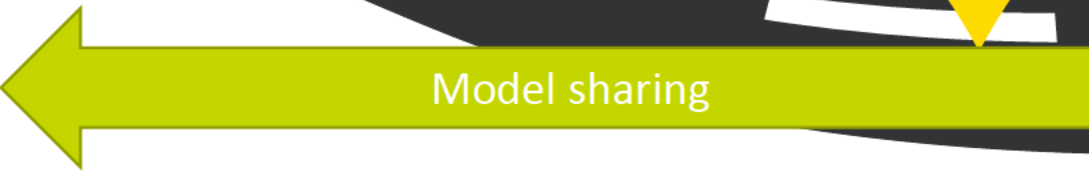
Final reference case modeling, risk analysis results, and preferred portfolio presented at final stakeholder meeting

March 2023

## File IRP

IRP to be filed in June 2023

June 2023

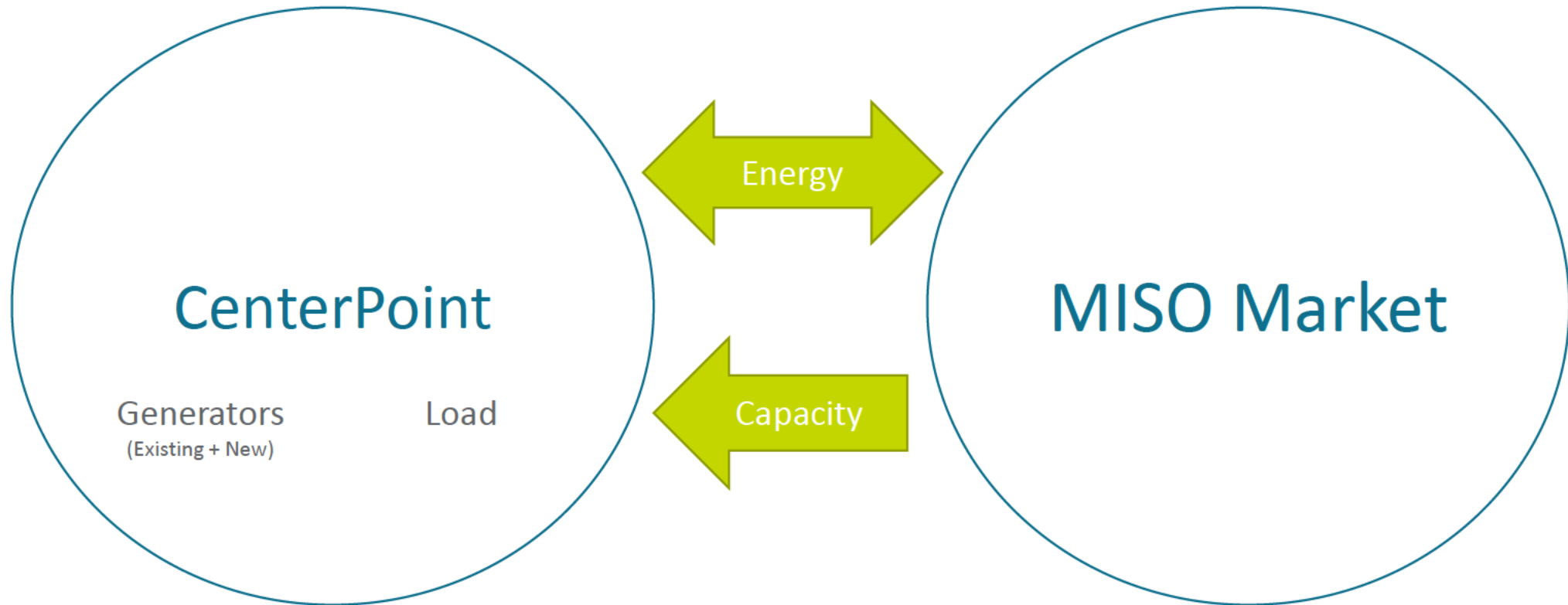


We are sharing the model earlier in the process to get input and feedback. However, there will be updates, we are early in modeling process.

# Main Modeling Updates Coming

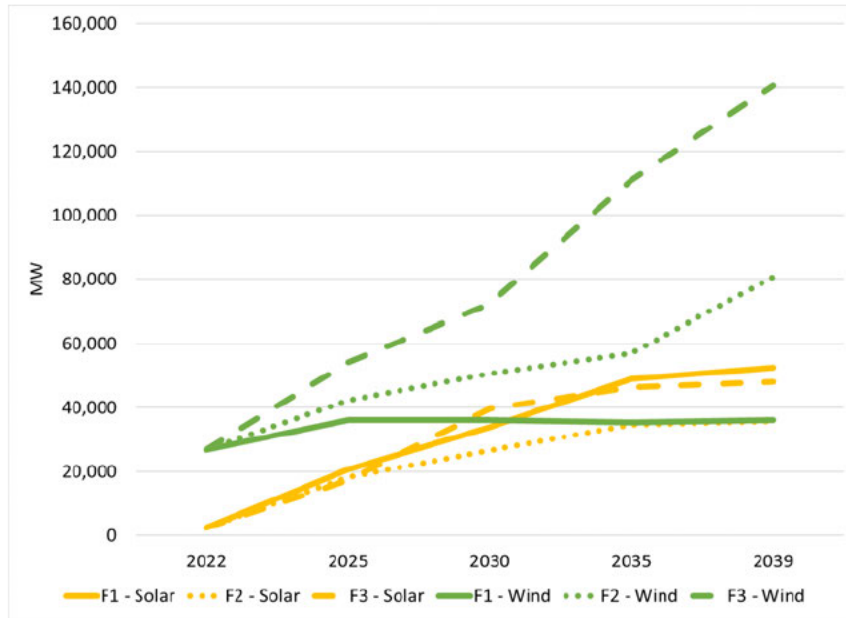
- Commodity/pricing updates
  - Gas
  - Coal
  - Technology assessment
  - Natural gas conversion estimates
- Development of updated market prices
- Renewable tax credit monetization
- Continued input review
- Feedback from stakeholders
- Scenario optimization runs

# System Overview - During Capacity Expansion



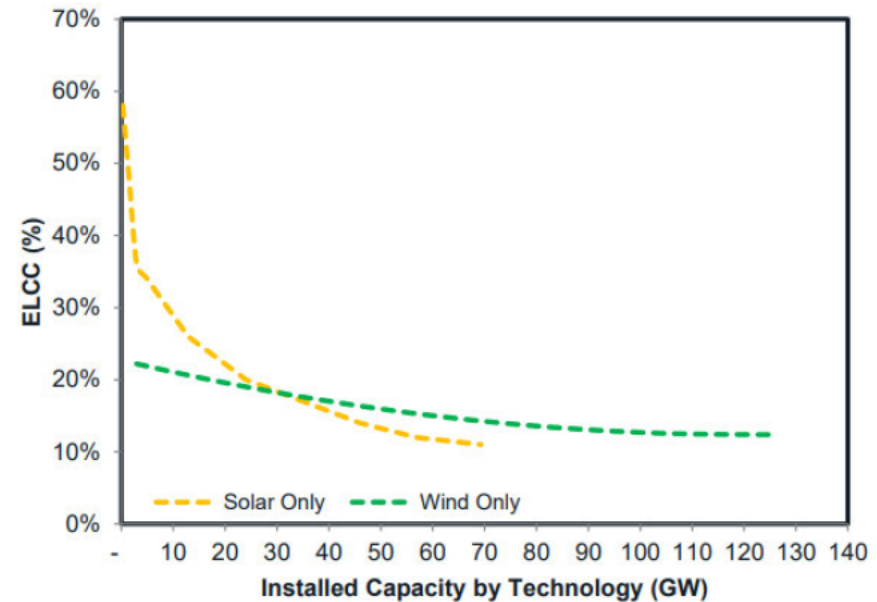
# MISO Renewable Penetration Trends

## MISO Installed Renewable Capacity



<https://cdn.misoenergy.org/MISO%20Futures%20Report538224.pdf>

## Effects of increasing installations



[https://cdn.misoenergy.org/RIIA%20Assumptions%20Doc\\_v6301579.pdf](https://cdn.misoenergy.org/RIIA%20Assumptions%20Doc_v6301579.pdf)

As installed capacity (ICAP) goes ...

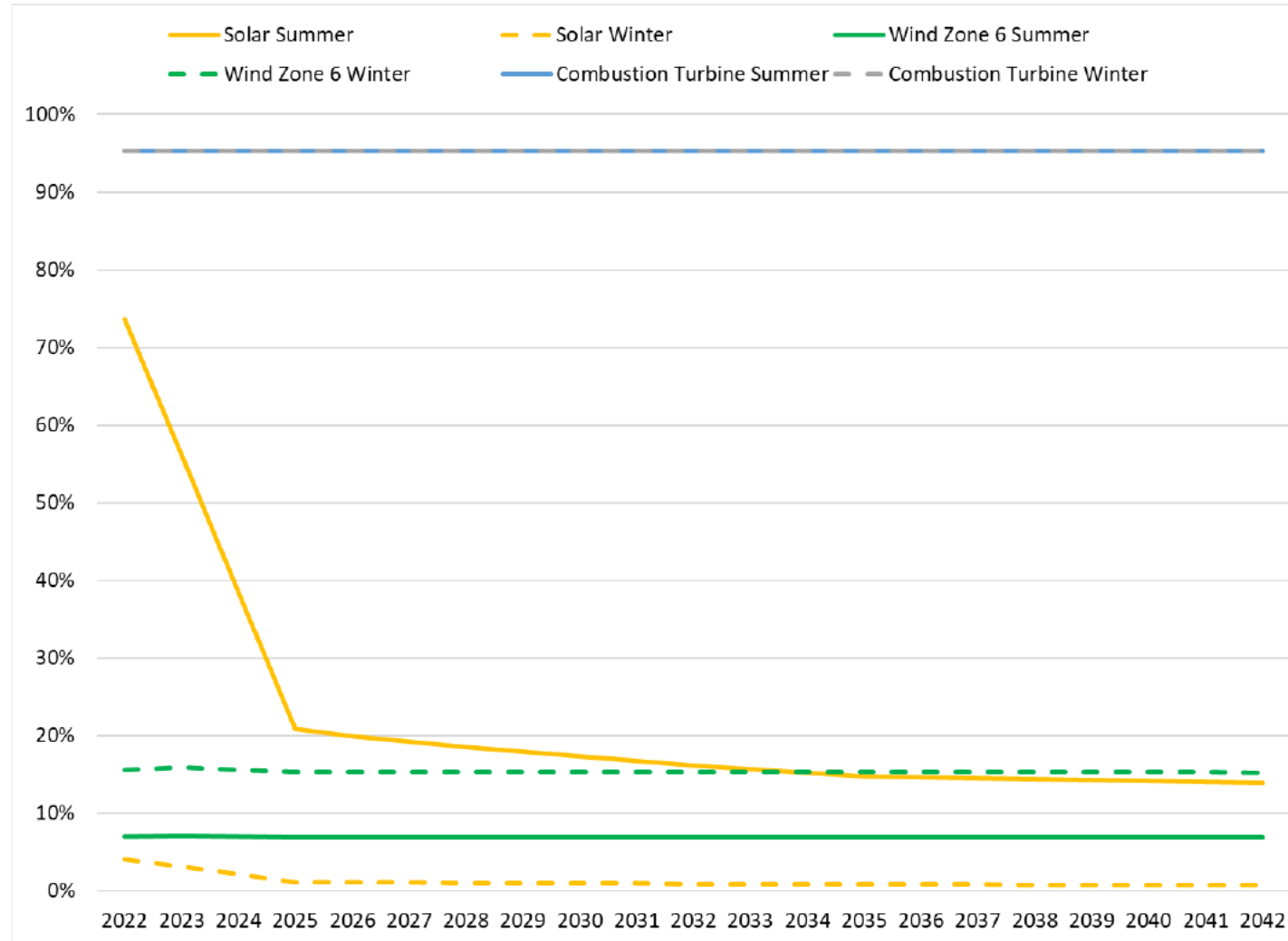


Accreditable capacity (UCAP) goes

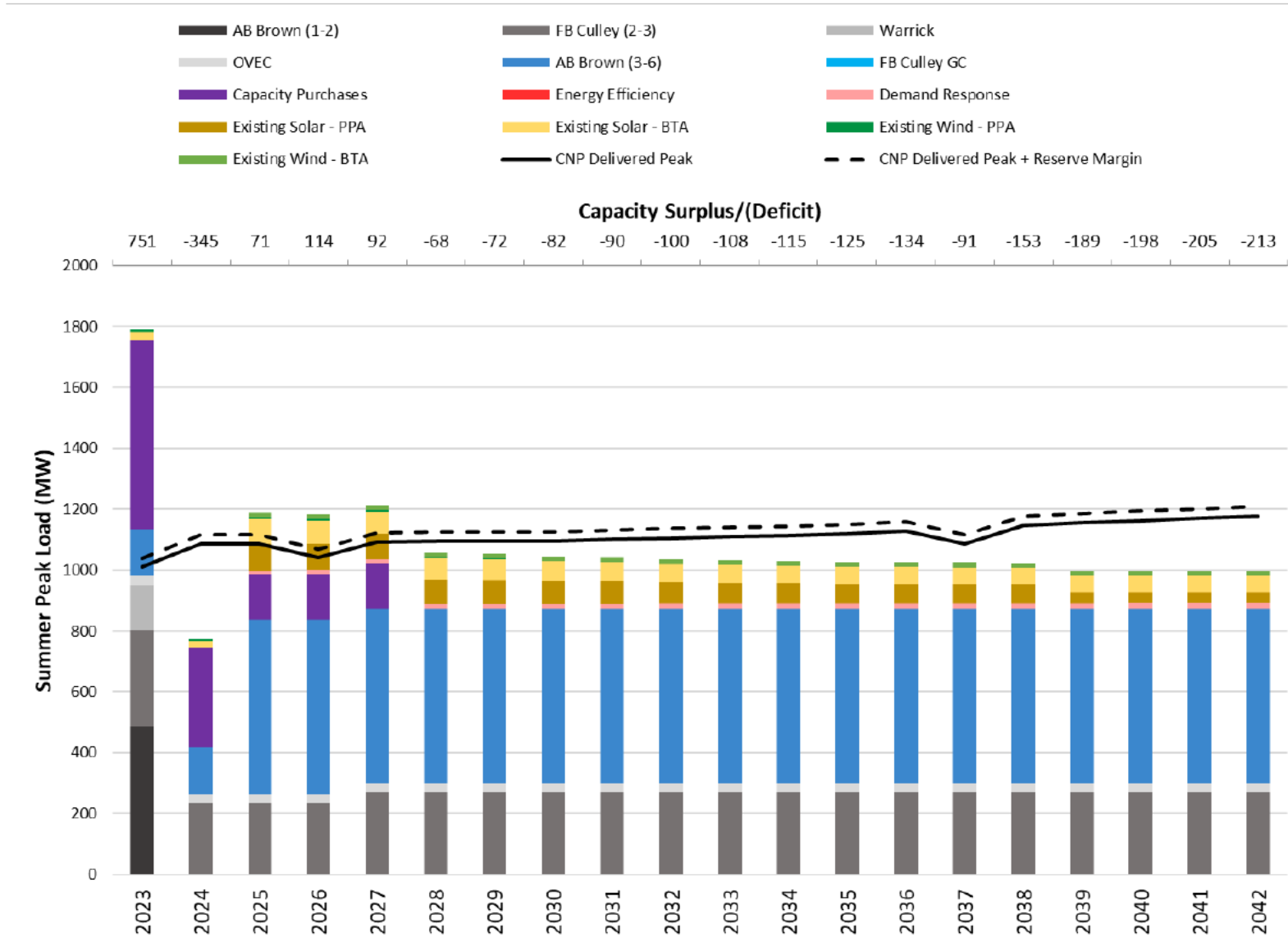




# Draft Projected Seasonal Accreditation

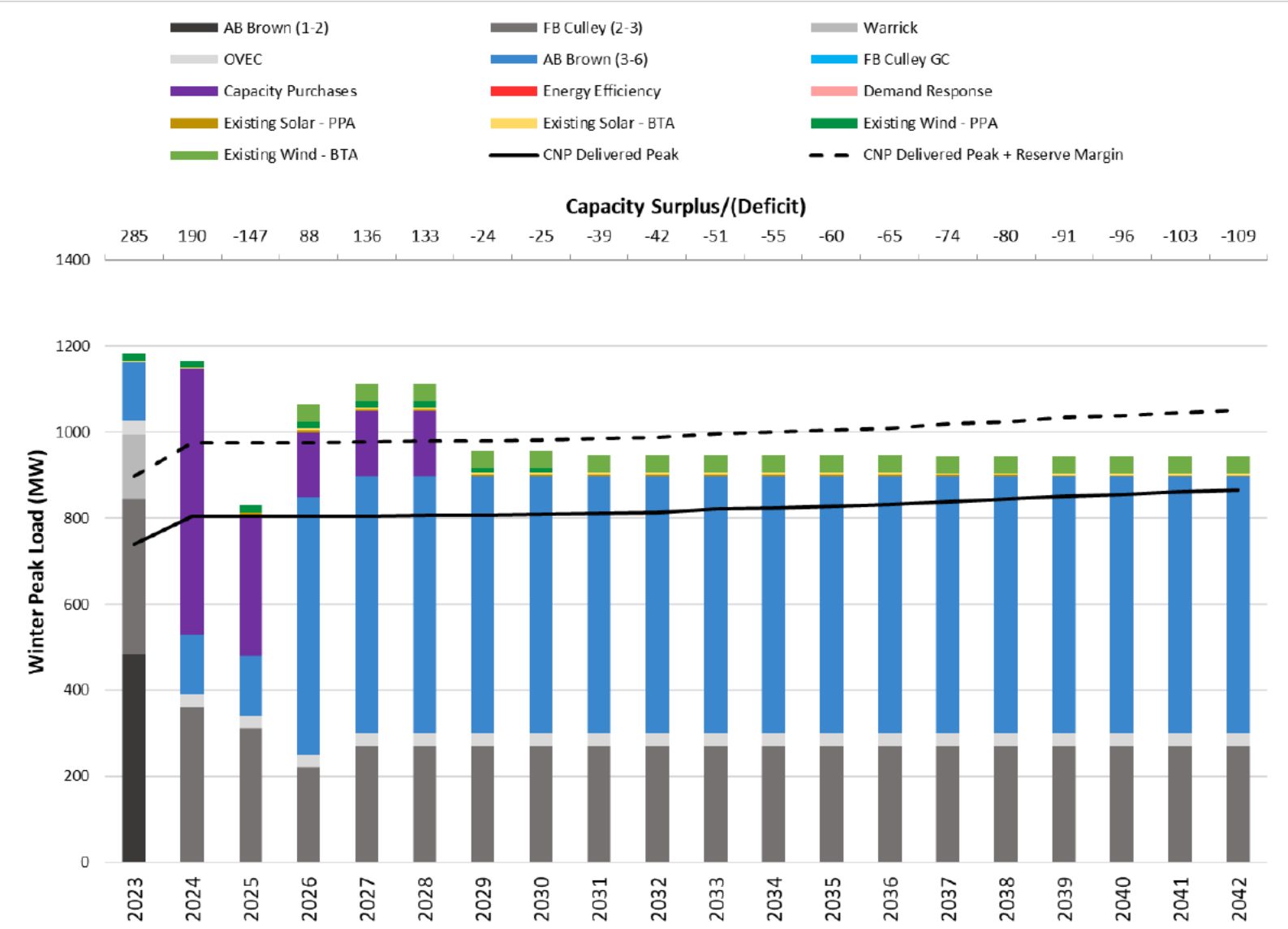


# Existing Resource Summer BLR



Note: BLR updated after October 31<sup>st</sup> meeting.

# Existing Resource Winter BLR



Note: BLR updated after October 31<sup>st</sup> meeting.

# Preliminary Model Selections



# Timeline of Next Steps

- Provide EnCompass scenario export following this meeting
- Model feedback requested by November 14<sup>th</sup>, 2022
- Next Tech to Tech will be the week of December 5<sup>th</sup> prior to stakeholder meeting