



# Modeling Scenarios for the 2023 IRP

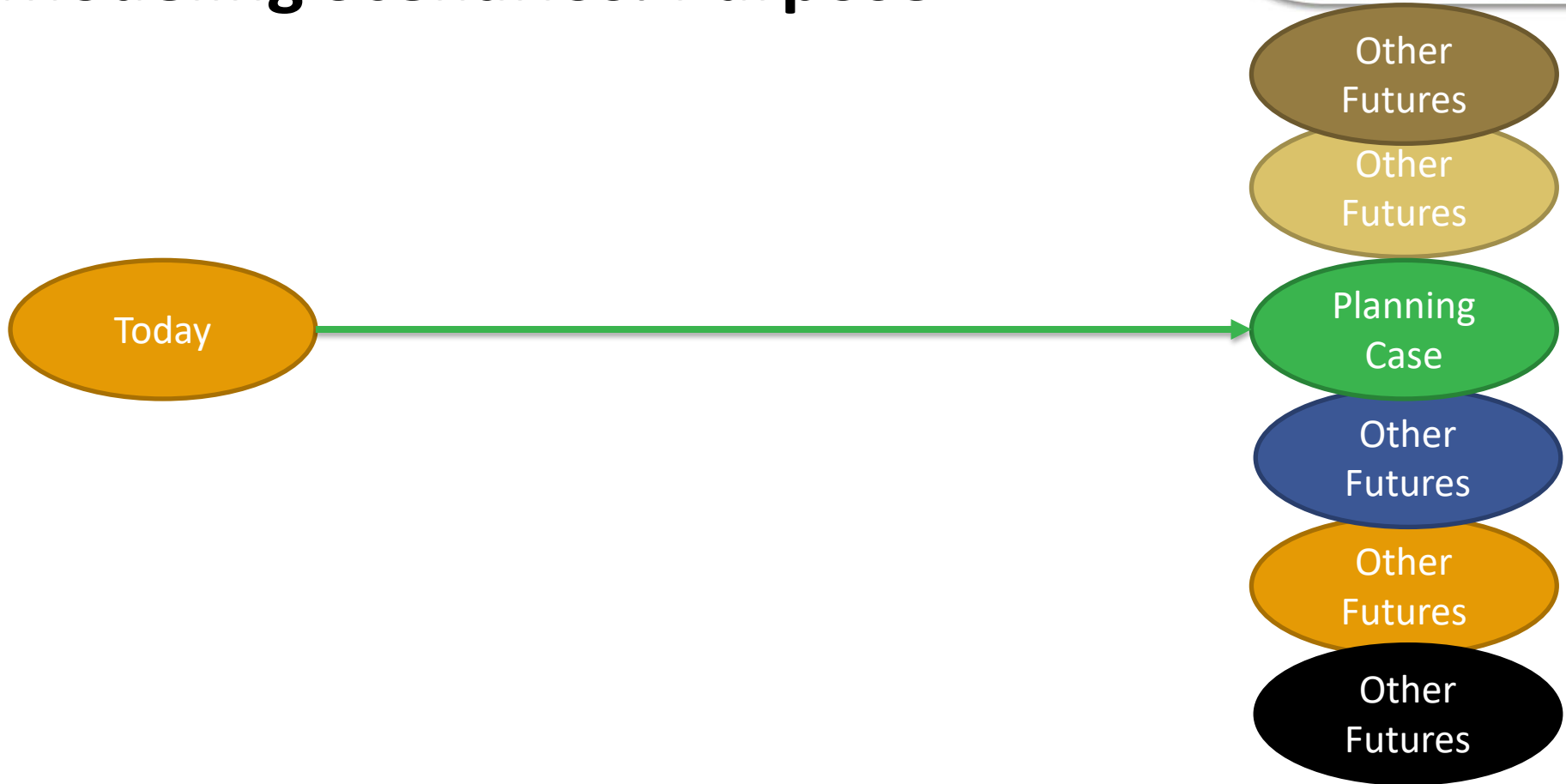
**Resource Planning**

Nov. 10, 2022

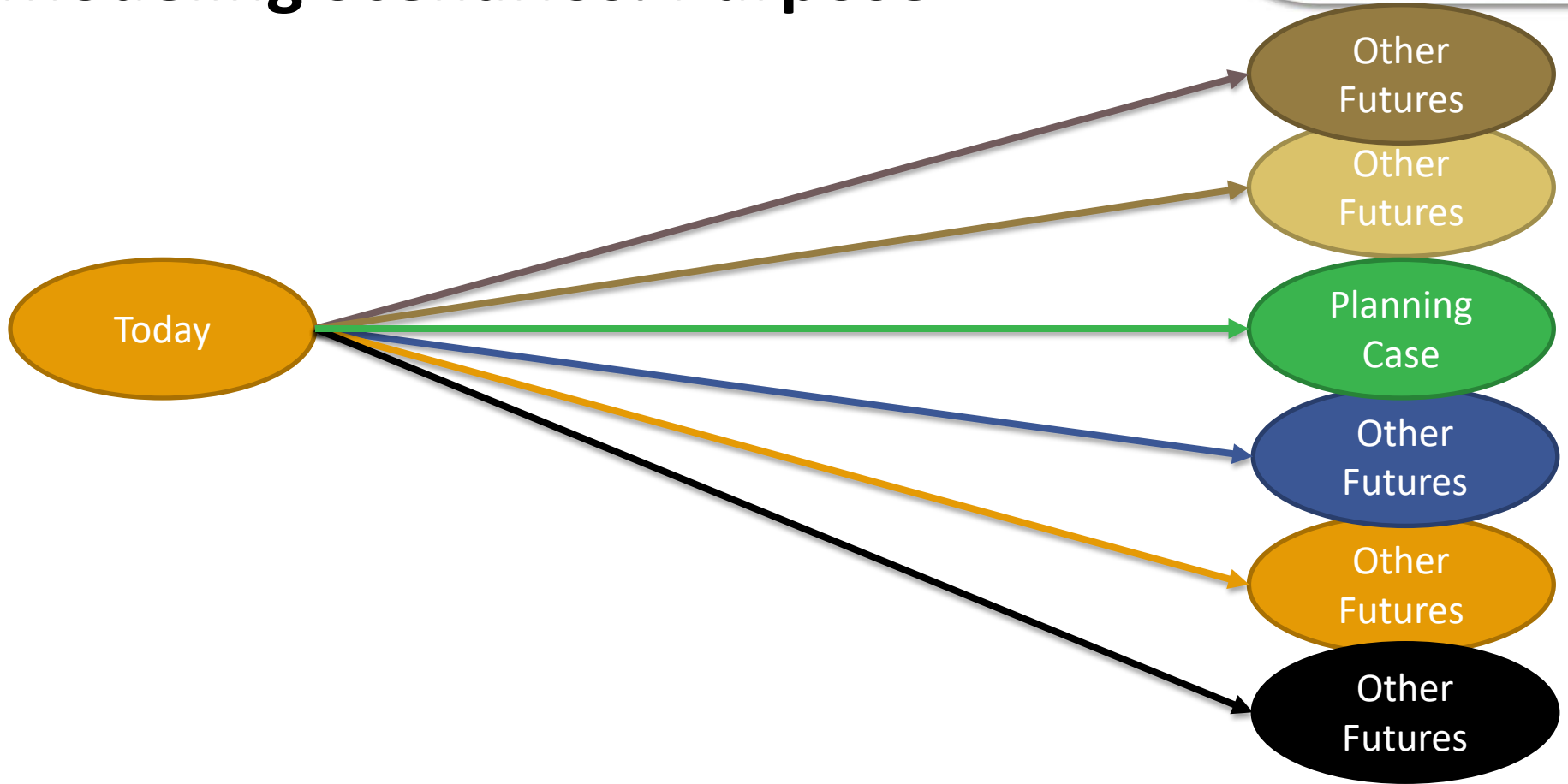
# Modeling Scenarios: Purpose



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# 2021 IRP Modeling Scenarios/Sensitivities

## Future Scenarios

- Rapid Electrification
- Climate Change
- 100% Clean by 2035
- 100% Clean by 2045

## Boardman to Hemingway (B2H) Tests and Sensitivities

- B2H Additional Capacity
- B2H Reduced Capacities
- B2H Delay
- B2H Contingency: 10%
- B2H Contingency: 20%
- B2H Contingency: 30%

## Preferred Portfolio

- Energy Efficiency
- Natural Gas Generation
- Bridger Gas Conversions
- Bridger Coal Exit Dates
- Solar and Wind
- Storage
- Valmy Coal Exit Dates

## Cogeneration or Small Power Production (CSPP) Wind Renewal

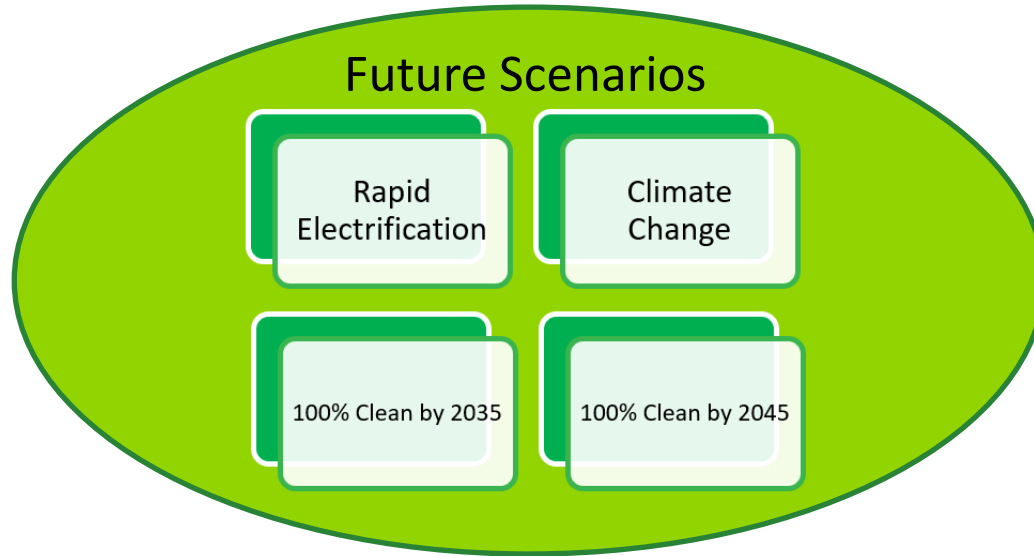
- CSPP Wind Renewal Low
- CSPP Wind Renewal High

## Validation and Verification

## Partnership Opportunity

- Southwest Intertie Project (SWIP) North

# 2021 IRP Modeling Scenarios/Sensitivities



# 2023 IRP: Modeling Scenarios

## BASE SCENARIO (Planning Conditions)

### Clean Goal

- Clean by 2045

### Extreme Weather

- Extreme Temp Impacts
- Variable Hydro

### Rapid Electrification

- Electric Vehicle (EV) Adoption
- Building Heating/Cooling