

Cogeneration and Small Power Production Forecast



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Cogeneration and Small Power Production Forecast



- CSPP includes all renewable generation delivered to Idaho Power under Energy Sales Agreements (ESA) and Power Purchase Agreements (PPA). Total nameplate capacity is over 1,500 megawatts (MW).
 - *Public Utility Regulatory Policies Act (PURPA) Qualifying Facility Energy Sales Agreements (ESA)*: over 1,200 MW under contract
 - Non-PURPA PPAs: Elkhorn Valley, Raft River Geothermal, Neal Hot Springs, Jackpot Solar, Black Mesa Solar: approximately 296 MW under contract
- Idaho Power does not control the timing or amount of energy received from CSPP projects. CSPP forecast generation is therefore included in the IRP as “must-take.”

PURPA vs. Non-PURPA



PURPA: Act passed by Congress in 1978 that requires utilities to buy energy from cogeneration or small power production (CSP) projects that meet the definition of a qualifying facility (QF) and can deliver energy to the utility.

Congress created the mandate, which is implemented by:

- The Federal Energy Regulatory Commission (FERC)
- State Commissions
 - Idaho Public Utilities Commission
 - Public Utility Commission of Oregon

Non-PURPA: Idaho Power has entered into non-PURPA PPAs a result of request for proposal (RFP) solicitations or other bilateral negotiations.

IRP Impacts of Status Quo: No Assumption of New PURPA

Existing Resources

Identified New Resources

Additional
CSPP

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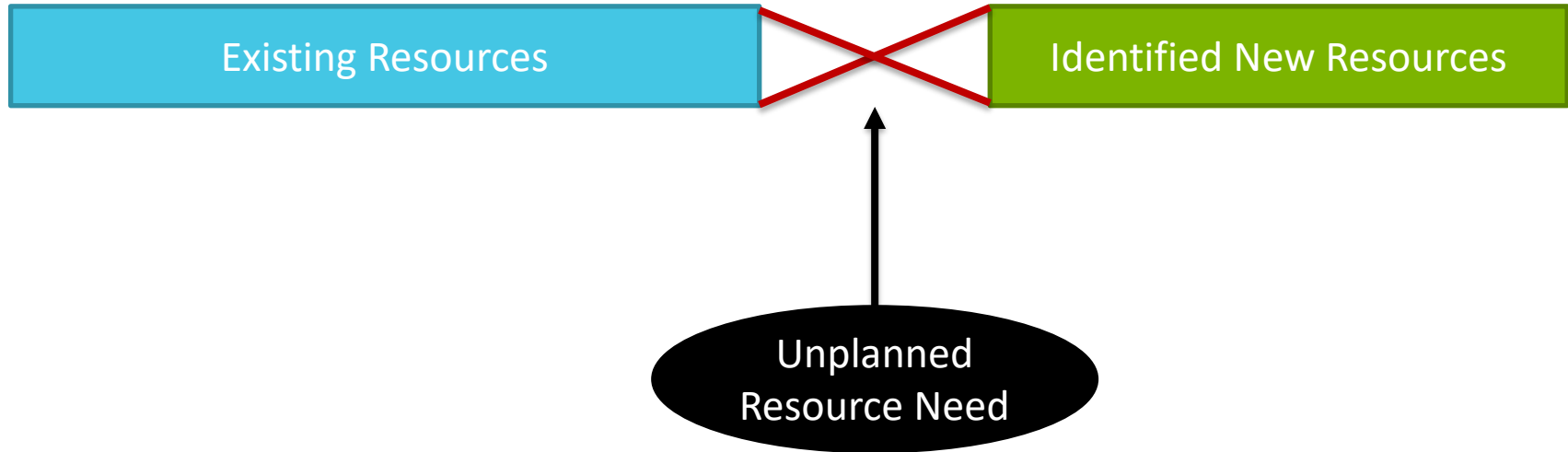
Impacts of Assuming New PURPA in the IRP

Existing Resources

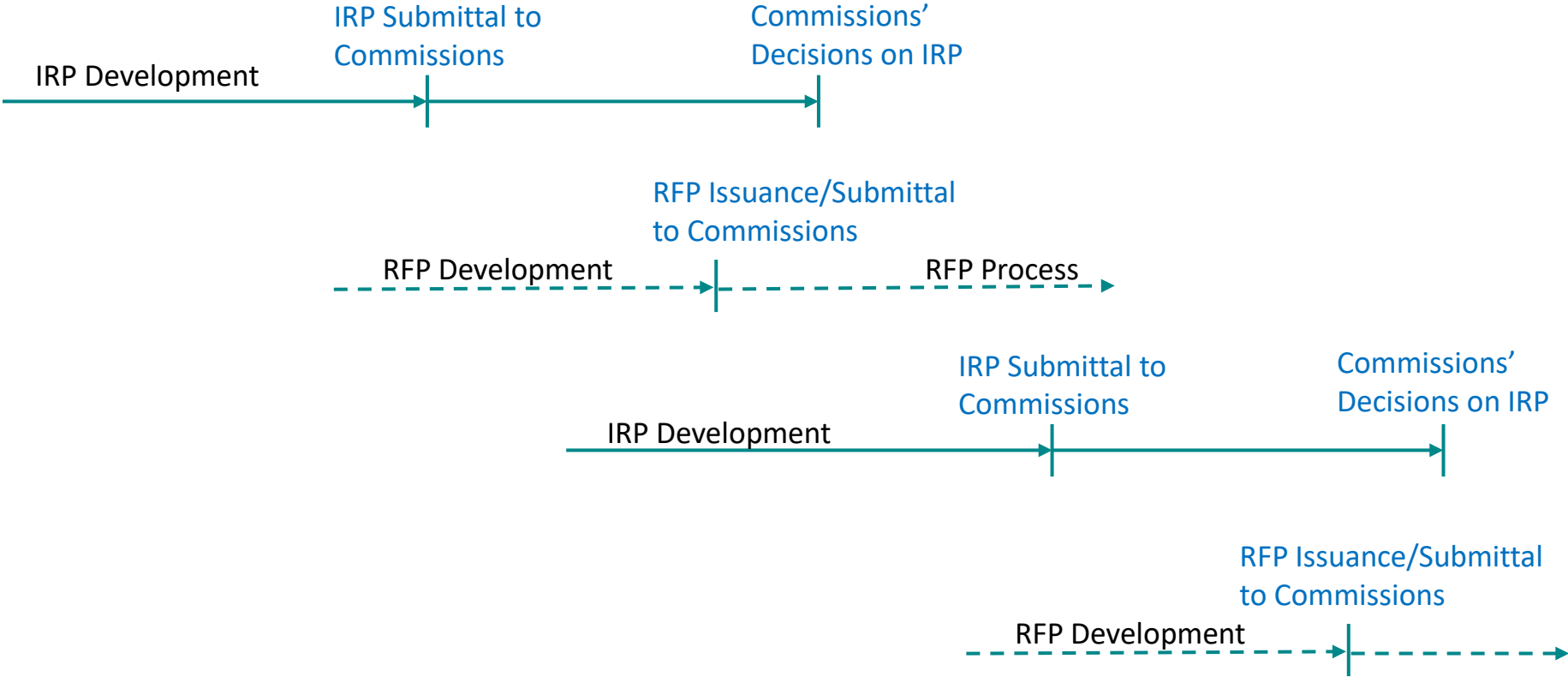
~~CSP
Forecast~~

Identified New Resources

Impacts of Assuming New PURPA in the IRP



Forecasts and IRP and RFP Timing



IRP Recommended Assumptions



- Assumptions regarding existing contracts:
 - **PURPA:** all existing PURPA QFs enter into replacement contracts upon termination of the existing contract, except for wind.
 - **Non-PURPA:** no existing projects seek replacement contracts upon termination of the existing contract.
 - These projects were not developed pursuant to the must-take requirement of PURPA.
 - They may pursue selling generation output to the "highest bidder" upon expiration of the current PPA.
 - Terms generally align with the economic life of the resource type as modeled in the IRP.
- No assumptions regarding future new development, for PURPA or non-PURPA projects, unless a contract is signed.

CSPP and Renewable PPAs Forecast

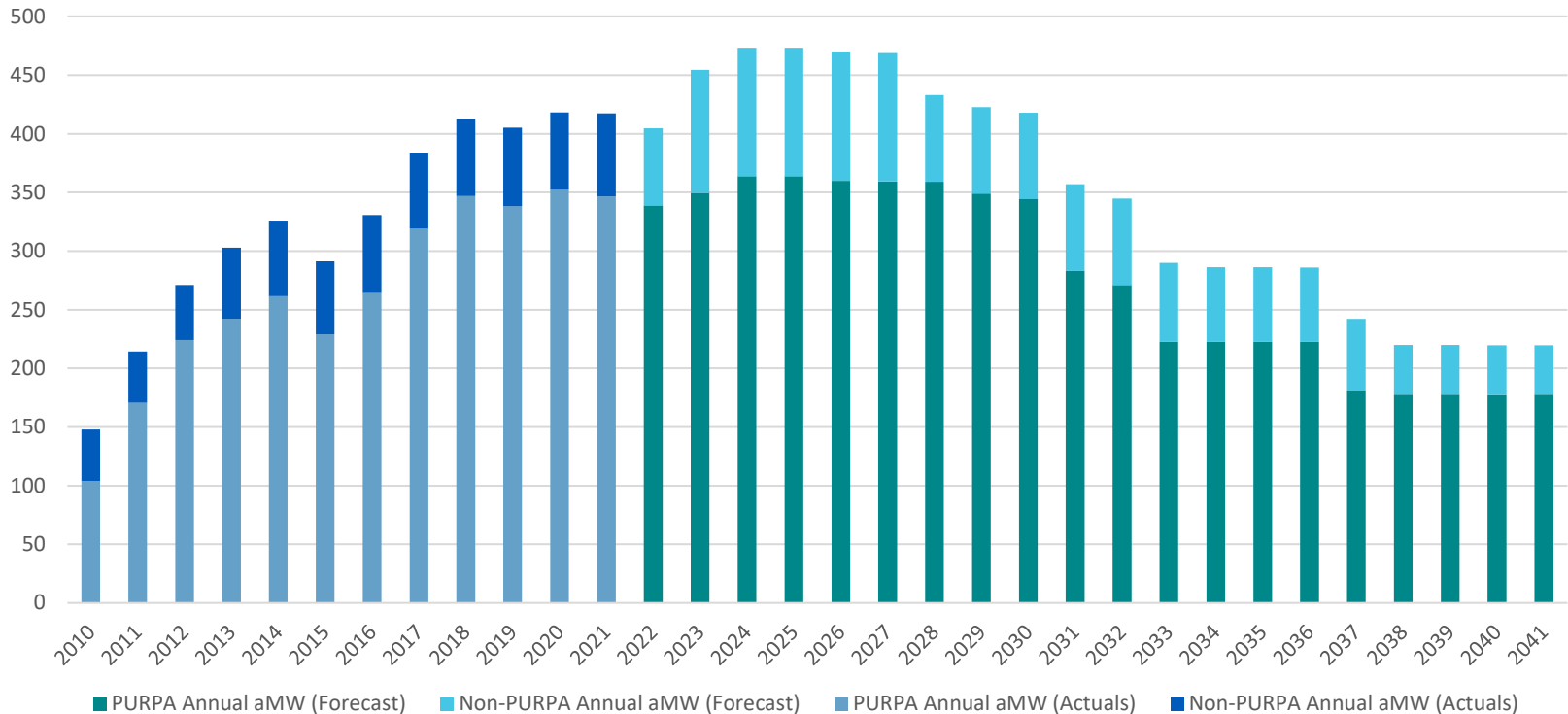


Forecast Process

- Include fully executed ESAs
- Forecast generation begins on project's scheduled operation date
- Use contract estimates as initial input
- Use 5-year monthly averages as the basis
- Adjustments based on project knowledge

Annual Average MW Forecast

PURPA and Non-PURPA Actuals and Long-Term Forecast



Questions?

