

APPENDIX J ADDITIONAL GAS ANALYSIS RESULTS

Exhibit J-1 Optimal Resource Mix: Green World Scenario Green World- Peak Day Demand and Resources

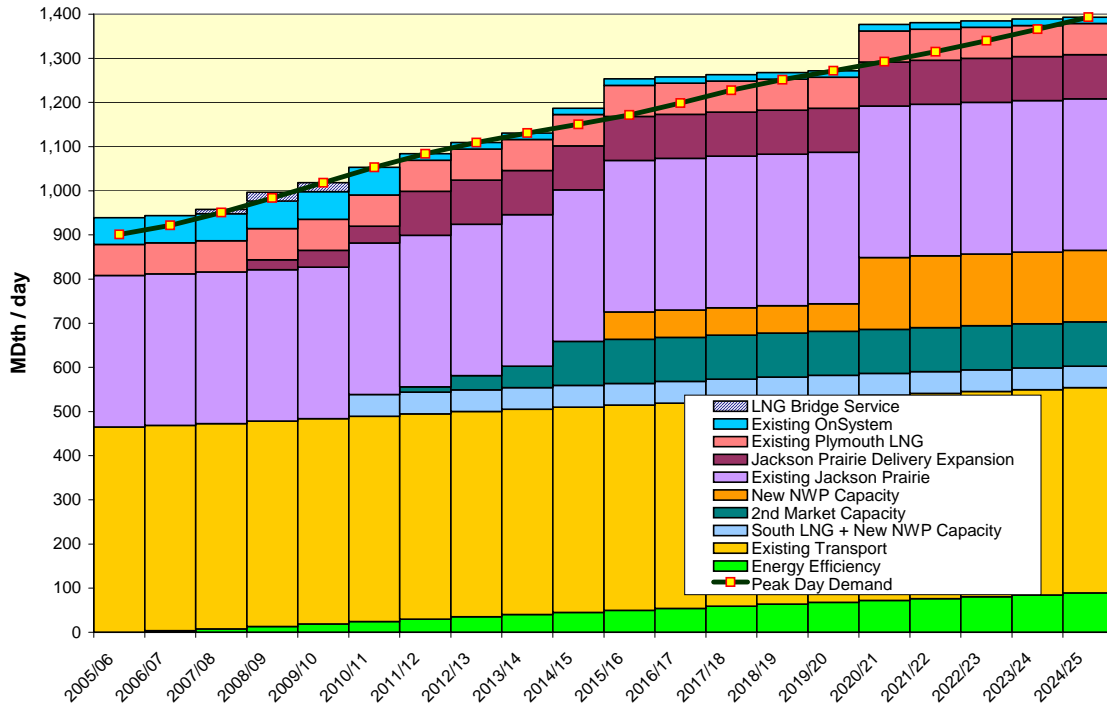


Exhibit J-2 Optimal Resource Mix: Strong Economy Scenario

Strong Economy- Peak Day Demand and Resources

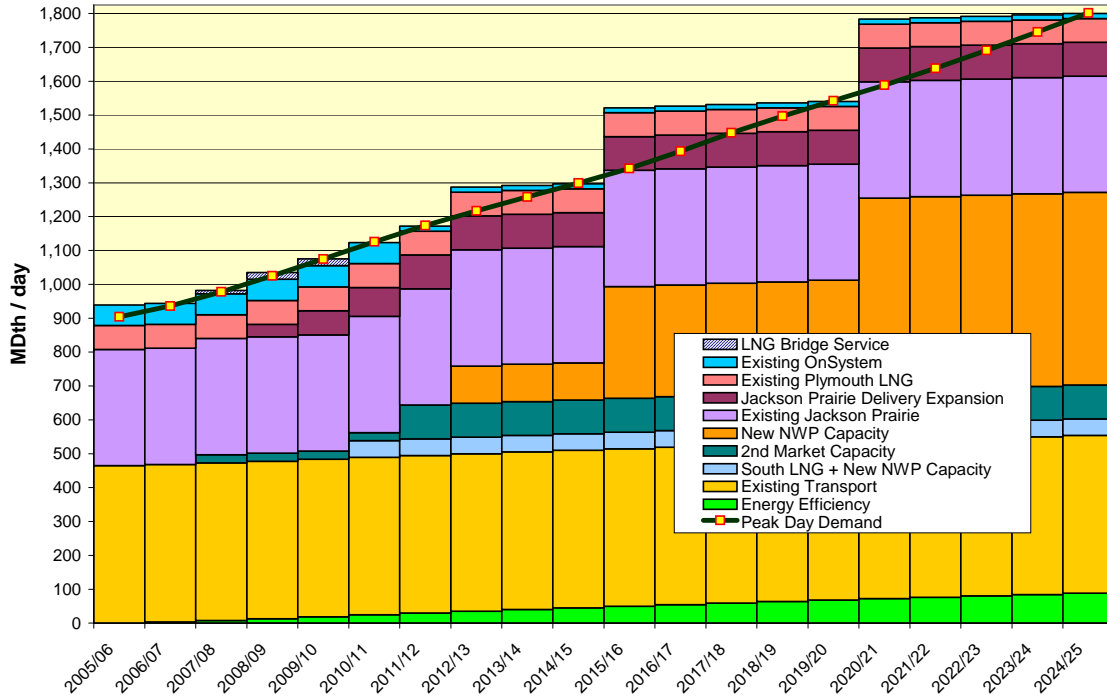


Exhibit J-3 Optimal Resource Mix: Weak Economy Scenario

Weak Economy- Peak Day Demand and Resources

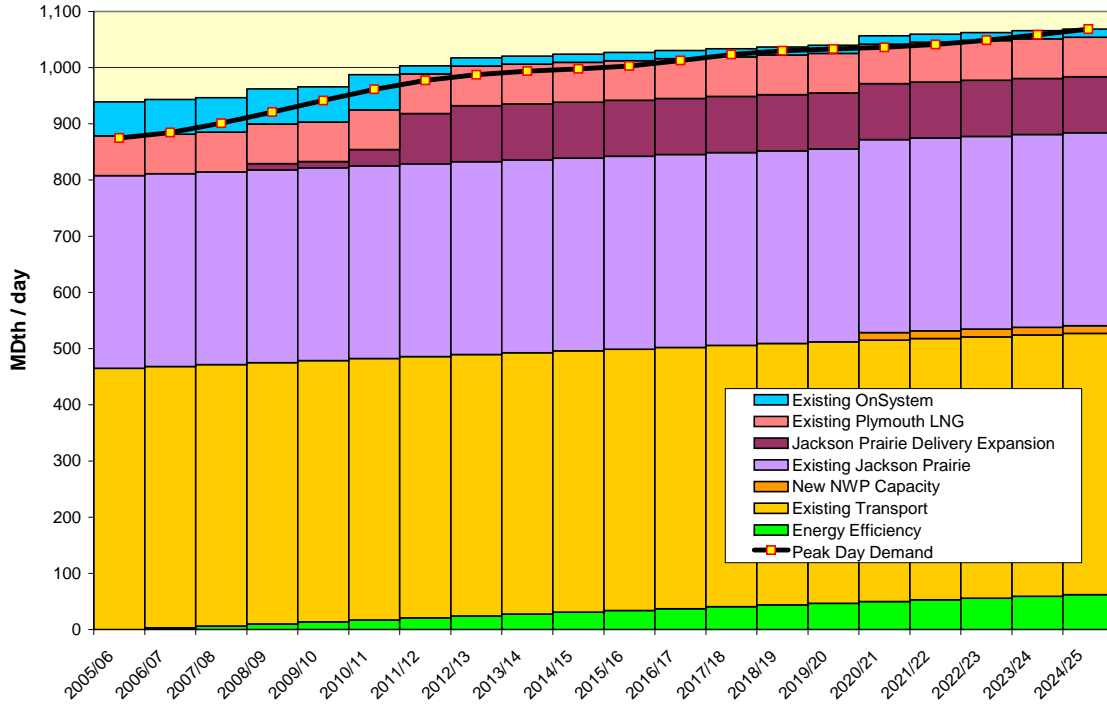


Exhibit J-4 Optimal Resources: Generation Fuel Portfolio

**Daily Firm and Interruptible Generation Fuel Demand from Northwest Pipeline
With Existing and Optimized Firm Transport Resources**

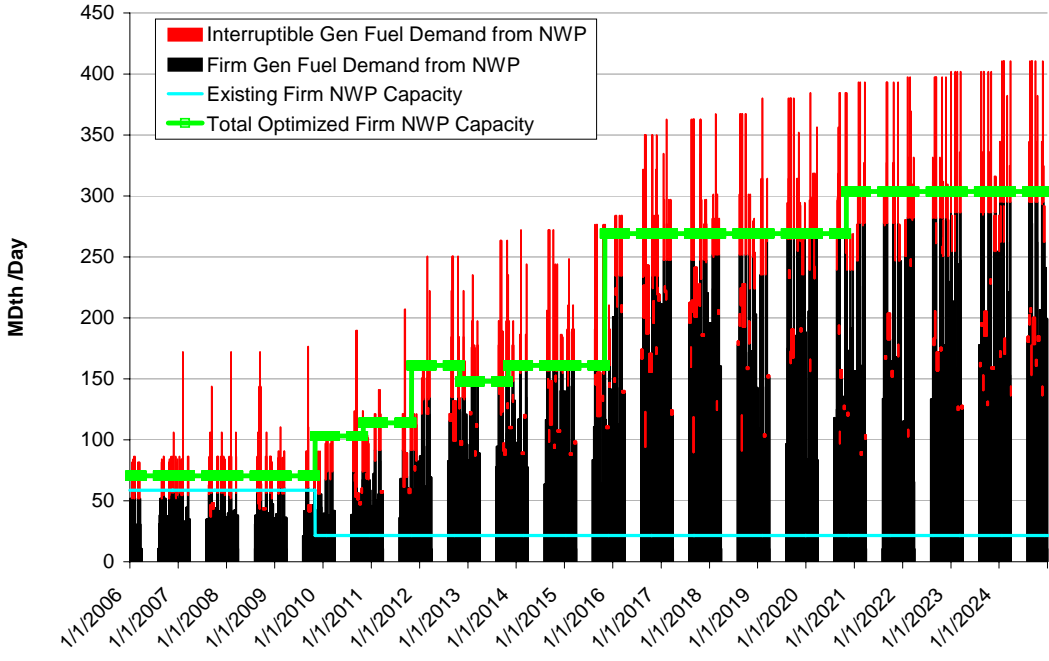


Exhibit J-5 Optimal Resource Mix: Joint Sales and Generation Fuel Portfolio

Design Peak Day Gas Demand and Optimized New Resources Joint Gas Sales and Generation Fuel

