



# BPA Generation Inputs Workshop

**Discussion: *third-party balancing reserve purchases, benefits and options***

**May 24, 2016**

# 3<sup>rd</sup> Party Purchases to Date:

- **Meet need above the 900 MW capability of the FCRPS**
  - **Day-ahead**
  - **Quarterly (most experience)**
  - **Spring (will continue for above 400 MW FCRPS capability)**
- **Has demonstrated significant savings compared to FCRPS cost**
  - **Liquidity?**
- **FY18 balancing requirement likely less than 900 MW**

# Realized & Potential Benefits:

- **Low-cost balancing reserves (fit inside FCRPS stack)**
- **Quarterly purchases help with liquidity for spring market**
- **Day-ahead purchases & R3T avoid carrying reserves 24/7**
- **Leverages demand response resources and requirements**
- **Unforeseen events (high/low water, outages, BA & schedule elections)**
- **Capacity payments to PNW industry (DR) & generation**
- **Releases federal reserves for other uses (energy, capacity, fish):**
  - **additional surplus energy sales**
  - **higher value capacity products (frequency response, etc.)**
  - **firming and shaping (RSS)**

# Similar to Energy Marketing:

- **BPA buys and sells energy daily to optimize the value of the FCRPS and lower the cost of meeting its obligation to serve customer load.**
- **BPA could pursue a similar strategy for meeting the capacity needs of its customers.**

# FCRPS Gen Inputs Costs:

	INCs	DECs
Embedded Cost	~ \$7 KW/mo	
Variable Cost	~ \$1.75 KW/mo	~ \$1.75 KW/mo

*\*Only INCs have been purchased to date*

# Discussion:

**Is there value in continuing 3<sup>rd</sup> party purchases over the near term future?**

- **Low cost balancing reserves (fit inside FCRPS stack)**
- **Quarterly purchases help with liquidity for spring market**
- **Day-ahead purchases & R3T avoid carrying reserves 24/7**
- **Leverages demand response resources and requirements**
- **Unforeseen events (high/low water, outages, timing of BA departures)**
- **Capacity payments to PNW industry (DR) & generation**
- **Releases federal reserves for other uses (energy, capacity, fish):**
  - **additional surplus energy sales**
  - **higher-value capacity products (frequency response, etc.)**
  - **firming and shaping (RSS)**

**Allocation of costs and benefits?**