Slice Product Map

Planning

System Planning, Contracts, and Rates
Through system planning, contracting, and load forecasting BPA determines it's obligations and pool of available firm resources. Firm purchases and sales are conducted to "balance" BPA's system each rate period.

WRAP Forward Showing
BPA determines planning capacity broken down by Storage Hydro, Run of River Hydro, Thermal, Variable Resources, and system obligations. The Slice planning capacity is adjusted for "off the top" obligations.

Operations

System Operations
Together with the Corps and Bureau, BPA manages the FPS and makes balancing purchases to meet it's obligations.

Market Operations
The Market Operator sends dispatch signals to BPA to optimize the system.

Market Settlement
The Market Operator settles directly with BPA and Slice Customers via Slice %

"System Mapping"

Total System Capability

- Forecast Acquisitions NOT Purchased
- Generation Serving Dynamic Off-the-Top Obligations (Reserves)
- Firm Surplus marketed by BPA
  - Tier 1 System Secondary
  - Tier 1 Firm System Resources
  - CHWM Augmentation Purchased (e.g., Klondike 3)
  - CHWM Augmentation NOT Purchased
- Acquisitions to Support Transmission Services
- Acquisitions to Support Resources
- Acquisitions made to serve other Load Obligation (e.g., IP, NR, FPS, Tier 2)
- Capacity Acquisitions to Follow Load
- Balancing Purchases

Forward Showing Workbook
- Non-Slice %
- Slice %

Planning Capacity
- Dispatchable Generation (Storage Hydro)
- Balance Of System (Run of River, Thermal, & VERS)

"Slice System Resources"
- Grand Coulee
- Chief Joe
- McNary
- John Day
- The Dalles
- Bonneville
- Remaining Federal Projects
- Non-Federal Projects (incl. CGS)
- Canadian Entitlement
- CHWM Augmentation

Slice Computer Application

Full System Capability
- Unavailable
  - Available Gen
  - "Fuel" Constrained Gen
  - Min Gen Equals Max Gen
- Bid Range 2
- Bid Range 1
- Self Schedule

MOO Contribution

Dispatched Gen
- Non-Slice %
- Slice %

Non-Slice Settlement, Allocation, and Attribution

SLICE Settlement, Allocation, and Attribution

7,250 aMW

BPA forecasts system capability and then makes purchases and/or sales to meet contractual obligations.

Multiplied by Slice % to get Slice Customer Forward Showing Capacity

Customers receive notice of system conditions, operations, and bid curves via SCA (or alternative)

Market Operator multiplies by Slice % to get Slice Customer MOO Contribution

Financial Settlement via Bilateral settlement schedule, Combined Interest Resource, or other mechanism.

Load Service (5b)

Continue Use of meeting 5(b) on a planning basis via the net requirements calculation.

Slice is paired with Block which reduces volatility and volume risk.

Customers inform BPA's DA operations via pre-schedule RTP request

"RSO" performed through DA MOO demonstration to the market using the customer Slice % and related resource bid-in capability submitted by BPA.

(Discussion) - After the fact market settlement tools may support and/or replace an "RSO" check done at the MOO evaluation.

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