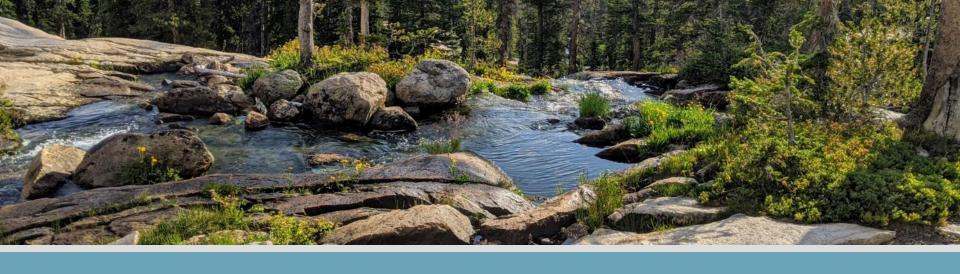


Provider of Choice - JOE Planned Products

JOE - Planned Product Approach

- For any of BPA's planned product offerings (Block and Slice/Block), BPA will treat the relationship between the JOE and its Members for the Provider of Choice Contract as follows:
 - Consistent with BPA's Policy which allows a JOE to purchase a, ""pooled" or aggregated amount of requirements power based on its members' individual net requirements."
 - When appropriate, BPA will sum each individual Member's contribution to determine the JOE-level amounts for various components of the applicable planned product.
 - Exhibit A, for example, will capture both the JOE-level and individual members' Forecasts of Total Retail Load and Annual Forecast of Monthly Net Requirement.



JOE Block Product



JOE - Block

- For the Block products BPA will:
 - First, calculate Net Requirement and Block product elements for each member of a JOE.
 - Member Level Calculations -
 - Attributable Portion of Annual Tier 1 Block (aMW)
 - Monthly Block Shaping Factors (if applicable)
 - Attributable Portion of Tier 1 Monthly Block Amounts (MW/hr)
 - Then, add each Member's outputs into a JOE-level aggregate level Block amount.
 - JOE Aggregate Level Calculations
 - Annual Tier 1 Block (aMW)
 - Tier 1 Monthly Block Amounts (MW/hr)
- JOE will receive power and be billed based on the JOE aggregate level amounts.



JOE - BWSC and Peak Load Variance Service (PLVS)

JOE – Block with Shaping Capacity

- For the Block with Shaping Capacity products, BPA will:
 - First, calculate Peak Net Requirement and other Shaping Capacity elements for each Member of a JOE.
 - Member Level Calculations -
 - Peak Net Requirement (MW)
 - Attributable Portion of Tier 1 Monthly Block Amounts (MW/hr)
 - Attributable Portion of Monthly Ramp Rate (MW)
 - Then, add each Member's outputs into a JOE level aggregate BWSC product elements.
 - JOE Aggregate Level Calculations
 - Monthly Shaping Capacity Amounts (MW)
 - Maximum and Minimum Hourly Energy Amounts (MW/hr)
 - Monthly Ramp Rate (MW)
- JOE will be able to utilize Shaping Capacity and be billed based on the JOE aggregate level amounts.

JOE - BWSC with PLVS

- For the PLVS portion of the BWSC at PNR with PLVS product, BPA will:
 - First, calculate P50 and P10 Peak Net Requirement for each Member of a JOE.
 - Member Level Calculations -
 - P50 and P10 Peak Net Requirement (MW)
 - Then, add each Member's outputs into JOE level aggregate level PLVS product elements.
 - JOE Aggregate Level Calculations
 - P50 and P10 Peak Net Requirement (MW)
 - Annual PLVS Pool (MWh)
 - Daily Energy Limit During a PLVS Event (MWh)
- There will be one election per JOE for the PLVS Event Availability, and the number of PLVS Events a JOE receives may increase based on its membership's peaking characteristics.

Block Product Options

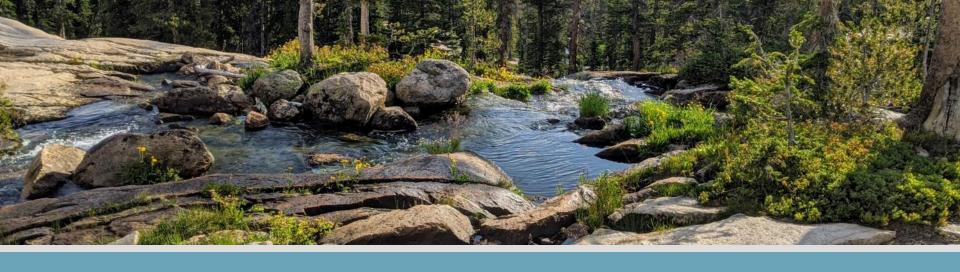
Block Product Options

- 1. Flat Annual Block
- 2. Flat Monthly Block
- 3. Diurnally Shaped Block
- 4. Block with Shaping Capacity (BWSC) (add on to flat monthly block)

Different Options For Block with Shaping Capacity (BWSC)

- A. BWSC with Base 10% Shaping Capacity
- B. BWSC with PNR Shaping Capacity
- C. BWSC with PNR Shaping Capacity + PLVS

^{*}Any request to switch between any of the options above will be considered a product switch under Provider of Choice.



Slice/Block



JOE - Slice Block

- For the Slice/Block product, BPA will:
 - Calculate the Preliminary Net Requirement and Slice/Block product elements for each member of a JOE.
 - Member Preliminary Net Requirement (annual aMW)
 - Member Level Slice Calculations -
 - Member Slice Percentages
 - Attributable Portion of Firm Slice Amounts (monthly aMW and MWh)
 - Member Level Block Calculations -
 - Attributable Portion of Annual Tier 1 Block (aMW)
 - Monthly Block Shaping Factors (if applicable)
 - Attributable Portion of Tier 1 Monthly Block Amounts (MWh)

JOE – Slice Block

- For the Slice/Block product, BPA will:
 - Calculate the JOE level aggregate Slice Percentage as the sum of the Members' Slice Percentages.
 - JOE Aggregate Level Slice Calculations
 - Slice Percentages
 - Firm Slice Amount (monthly aMW and MWh)
 - Then, add each Member's outputs into a JOE level aggregate level Tier 1 Block Amounts.
 - JOE Aggregate Level Block Calculations
 - Annual Tier 1 Block (aMW)
 - Tier 1 Monthly Block Amounts (MWh)