

# Provider of Choice Contract Exhibit A Standards for Resource Declarations

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The Provider of Choice Contract Exhibit A Standards for Resource Declarations establish the amount of power from the Bonneville Power Administration's (BPA) customers' 5(b)(1) resources included in customers' Exhibit A. The standards are consistent with the Provider of Choice Policy and Provider of Choice contract requirements. These standards apply to all non-federal resources dedicated by a BPA customer.

BPA will largely apply the standards adopted for Regional Dialogue contracts with minor modifications. One significant change is the inclusion of the peaking capability standards consistent with the Provider of Choice Policy decision to require collection of this data in contracts.

This document is based on known resource situations and is subject to revision as needed.

## Energy Capability Standards:

All resources included in Exhibit A will be shaped diurnally. Diurnal shapes will use heavy load hours (HLH) and light load hours (LLH) as designated by the North American Electric Reliability Corporation (NERC), or its successor, as defined in Exhibit F of the Provider of Choice contracts. This methodology applies to all resources unless an alternate methodology is allowed per the individual resource category's standard.

## Resource Category 1: Pacific Northwest Coordination Agreement (PNCA) and Non-PNCA Hydro Resources

The affected resources include: (1) PNCA hydropower resources above the tailwater of Bonneville Dam; (2) other PNCA hydropower resources; and (3) non-PNCA dispatchable hydropower resources. BPA acknowledges that the PNCA is no longer in existence but will use the last known designation of a PNCA resource for establishing the standard. This standard does not apply to small hydropower projects or partially dispatchable hydropower resources; those resource standards are described separately.

### Standard

The default for PNCA resources above the tailwater of Bonneville Dam will use the firm water year, 1937, that had been designated by PNCA.

Customers may select another single (alternate) water year for PNCA resources below the tailwater of Bonneville Dam or in other basins, and for non-PNCA hydro resources.

- Hydro resources must use the monthly generation shape resulting from PNCA or the shape resulting from flow and storage data for the alternate water year.
  - If a PNCA hydro resource below the tailwater of Bonneville Dam or in another basin has upstream storage that allowed PNCA Regulations to shape generation among months, then the customer may re-shape the annual generation from an alternate water year into the monthly shape in the customer's Regional Dialogue contract.
- The selected alternate water year must apply to all of a customer's hydro resources other than PNCA above-Bonneville resources (no project-specific water year selection).
- For PNCA resources, initial population of Exhibit A will use the 2009 PNCA Final Regulation.
- Customers may opt to declare resources more heavily into HLH. Customers must justify any proposal to declare resources more heavily into LLH.

Customers had the opportunity to elect a different methodology for determining firm output. Requests were due October 1, 2024. No alternative methodology has been adopted after discussion with interested customers.

### Resource Category 2: Canadian Entitlement Allocation Extension Agreement (CEAEA)

The affected resources include: (1) Wells, (2) Rocky Reach, (3) Rock Island, (4) Wanapum and (5) Priest Rapids hydropower resources.

#### Standard

To be determined pending outcome of current litigation.

### Resource Category 3: Partially Dispatchable Resources

The affected resources include: (1) partially dispatchable hydropower resources, and (2) hybrid resources with some peaking capability. Hybrid resources with some peaking capability include wind or solar resources paired with an energy storage device.

#### Standard

For partially dispatchable hydropower resources, the default will be Regional Dialogue Exhibit A amounts.

For hybrid resources with some peaking capability, the default will be to use the expected resource output by calculating the expected average annual generation over five-years accounting for normal/non-outage operations. This will include working with the customer to identify if adjustments are necessary to account for the energy storage portion of the resource. The resource output will be shaped to expected monthly output.

## Resource Category 4: Dispatchable and/or Non-Renewable Thermal Resources

The affected resources include: (1) existing thermal resources, and (2) new thermals. Examples of new thermals include natural gas, modular nuclear, and hydrogen resources.

### Standard

The default standard will be expected annual generation with normal or non-outage operations. The non-federal resource amounts will be flat amounts applied over the year except in cases of refueling or maintenance.

If an alternative standard has been adopted by public process, that standard will apply.

## Resource Category 5: Non-Dispatchable Resources

The affected resources include any resources that are not dispatchable above 1 megawatt. This includes wind, solar, hydropower, biomass, dairy digester (methane), and landfill gas. This may include geothermal.

### Standard

If the resource was included in the customer's Regional Dialogue Exhibit A, the default will be to adopt the Regional Dialogue amount.

If the resource was not included in the customer's Regional Dialogue Exhibit A, the default will be the average of five-years of expected annual generation for normal/non-outage operations. If actual generation data exists, then five years of actual generation will be used in lieu of expected generation. The generation will be shaped to monthly amounts.

For hydropower resources, if a customer has selected a PNCA water year for PNCA hydropower resources not above-Bonneville, or for other large hydropower resources, customer will use generation for that water year, if available, for the non-dispatchable hydropower resource.

For uncontrollable loss of fuel source, BPA will allow reasonable ramp down of firm capability over time. (May require customer to request Administrator recognition of loss of resource.)

## Resource Category 6: Committed Power Purchases

The affected resources include any committed power purchase. *Note:* Committed Power Purchases will be entered into Exhibit A as applicable and will not be filled in at contract offer.

### Standard

The default standard is equal hourly amounts for every hour of a year, unless customers elect reshaping provided for in the Provider of Choice power sales contract.

## Resource Category 7: Consumer-Owned Resources

The affected resources include both dispatchable and non-dispatchable resources serving either on-site or other than on-site loads. Community solar may qualify.

#### Standard

The standard will be annual expected generation. The generation will not be diurnally shaped.

#### Resource Category 8: Customer Resources Not Dedicated to Total Retail Load

The amounts will not affect the customer's bill or purchase obligation from BPA.

#### Standard

The standard will be annual expected generation. The generation will not be diurnally shaped.

#### Resource Category 9: Co-Owned and Added Phase Resources

The affected resources include: (1) projects with a total nameplate greater than 1.0 megawatt that may have multiple simultaneous output share owners; and (2) projects where an owner or owners add generation to the project or purchase additional shares of a project. Added generators or added shares comprise new "phases" of the project.

#### Standard

The standard for the new phases will mirror the standards adopted for the original resource. Exhibit A will be updated to reflect the updated resource profile and specified additional resource amounts.

#### Resource Category 10: Co-Owned Behind-the-Meter Resources

The affected resources include resources directly connected to a customer's distribution system (regardless of voltage) that are shared among two or more purchasers, one of whom is a consumer applying a share directly to a consumer-owned load.

#### Standard

The standards for the resource type will be based on the standards of the applicable resource type as described in resource categories one through eight. The same base data must be used to develop Exhibit A amounts for each share owner, including monthly shape where applicable. Exhibit A will be updated to reflect the updated resource profile, specified additional resource amounts, and any separate identification required.

The consumer-owned share must be separately metered, and the consumer portion identified (e.g. identifying solar panel numbers). The non-consumer-owned shares may be jointly metered and dedicated. Any new phases that add generation will require separate identification, per resource category 9.

### Peaking Capability Exhibit Standards

#### Peaking Capability Standard for Non-federal Resources.

The affected resources include all non-federal resources except for (1) committed power purchases, (2) consumer-owned resources and customer resources not dedicated to total retail

load, (3) any co-owned and added phase resources that are consumer-owned resources, and (4) any co-owned behind-the-meter-resources that are consumer-owned resources. Standards for the exceptions are noted below.

#### Standard

The standard will be the Western Resource Adequacy Program (WRAP) Qualifying Contribution Capacity (QCC) amounts. The amounts will be captured by month. For co-owned resources, QCC amounts will be determined for each resource and attributed to each share and/or phase according to the ownership/contracted share of that resource.

For months where WRAP does not provide a QCC amount (e.g. April, May and October), BPA will use the lower of the QCC amounts of the WRAP month preceding or the WRAP month following the month(s) with no value. BPA will use the lower of September and November QCC values to serve as a proxy for the October QCC amount. For April and May, BPA will use the lower of March and June WRAP QCC values to serve as proxy April and May QCC values. If QCC values are used in a customer's currently elected product, BPA will work with that customer if it demonstrates that its resource operating conditions are materially different in the months preceding or following the month or months without QCC values. If WRAP supplies QCC values for additional, or all, months, this methodology will no longer apply and WRAP QCC values will be used.

QCC value changes may necessitate an adjustment to Exhibit A values. Notification and timing of updates may vary by a customer's product election.

If BPA no longer participates in WRAP or WRAP ceases to exist, BPA will review and may update its standard for peaking capability.

#### Resource Category 6: Determination of Amounts for Committed Power Purchases

The affected resources include any committed power purchase.

#### Standard

The peaking capability is determined by average HLH energy by month.

#### Determination of Resource Amounts for Resource Category 7 Consumer-Owned Resources, Resource Category 8 Customer Resources Not Dedicated to Total Retail Load, and any portions of resources that are Consumer-Owned Resources under Resource Categories 9 and 10

The affected resources include: (1) consumer-owned resources and customer resources not dedicated to total retail load, (2) any co-owned and added phase resources that are consumer-owned resources, and (3) any co-owned behind-the-meter-resources that are consumer-owned resources.

## Standard

Exhibit A will not list a peaking capability for consumer-owned resources.