

Non-federal Resources in a Day-Ahead Market

May 29, 2024





Objectives

- Initiate conversation with customers about how non-federal resources could be treated under Load Following and Planned Product with/without a Day-Ahead Market (DAM).
- Opportunity to discuss contract requirements and pricing for non-federal resource support services.

Non-federal Resources in a Day-Ahead Market

- BPA is potentially joining a DAM as the Load Serving Entity for Load Following customers. The service that BPA provides Load Following customers will stay the same.
- BPA will continue to serve a Load Following customers hourly net requirement.
- The way BPA accounts for non-federal resources and the pricing for shaping services and capacity may need adjusting.

Matrix Overview

BPA has put together a matrix for discussion on potential treatment for energy and capacity of non-federal resources dedicated under the Provider of Choice Load Following contract.

- BPA will need more information to refine.
- The following slides use a few DAM terms:
 - Must Offer Obligation A minimum requirement for each Market Participant with load and/or export obligations to bring enough supply to "cover" those obligations.
 - Self Schedule represents submission of a static hourly resource output without market adjustability. Such a submission is treated as a price-taker.
 - Bid generation offers at a specified amount and price in the Day-Ahead market.

Four Views for Non-Federal Resources

Load Following No DAM Planned Products
No DAM

Load Following DAM Planned Products DAM

Load Following – No DAM Treatment

Load Followin	ad Following							No DAM Treatment			
Resource Category	Nameplate	Capacity > Energy	Potential Capacity Credit	Exhibit A Amounts	Required Capacity- Based Charges*		Load Treatment	Energy < Exhibit A	Energy > Exhibit A		
1 New & Existing Small	Less than 1 MW	N/A	N/A	No	No	No	Net Load	PF Rate D	esign esign		
2 Existing Non- Dispatchable	Greater than 1 MW	No	No	Yes	Potentially if needed to meet Exhibit A	Exhibit A Amounts	_	Market Charge Potential UAI or other fees	Market Credit		
3 Existing Dispatchable	Greater than 1 MW	Yes	No	Yes	Amounts	YES - TBD					
4 Existing Energy Only	Greater than 1 MW	No	No	Yes	No	No		Market Charge			
5 New Tier 1 Allowance	Up to 5 MW or 50% CHWM	No	No	Yes	No	No					
6 New Tier 1 Allowance + Capacity	Up to 5 MW or 50% CHWM	Yes	Yes	Yes	No	YES - TBD	Scheduled Load minus Exhibit A Amounts				
7 ACHWM Non- Dispatchable	Greater than 1 MW	No	No	Yes	Yes if any capacity shortfall from flat block of power	Op. Min		Market Charge Above Op. Min UAI or other			
8 ACHWM Dispatchable	Greater than 1 MW	Yes	Yes	Yes	No	YES - TBD		fees if < Op. Min			
9 ACHWM Committed Purchase	N/A	No	No	Yes	No	Exhibit A Amounts		UAI	N/A		

^{*}This might need to change under certain future landscapes, such as new market and resource planning requirements.

Planned Products – No DAM Treatment

Planned Prod	luct								No DAM Treatment
Resource Category	Nameplate	Capacity > Energy	Potential Capacity Credit	Exhibit A Amounts	Required Capacity Based Charges*	· BPA Capacity Requirement*	Impact on Annual Energy Net Requirement	Impact on Net Requirement Energy True Up	Energy Δ from Exhibit A
New & Existing Small	Less than 1 MW	N/A	N/A	No	No	No	Indirectly through load forecast	Actual Generation	PF Rate Design
Existing Non- Dispatchable	Greater than 1 MW	No	No	Yes	No	Impacts PNR if Applicable	-	Exhibit A Amounts	Market Charges/ Credits to Customer
Existing Dispatchable	Greater than 1 MW	Yes	No	Yes	No	Impacts PNR if Applicable			
Existing Energy Only	Greater than 1 MW	No	No	Yes	No	No			
New Tier 1 Allowance	Up to 5 MW or 50% CHWM	No	No	Yes	No	No			
New Tier 1 Allowance + Capacity	Up to 5 MW or 50% CHWM	Yes	Yes	Yes	No	Yes if Capacity Credit	Exhibit A Amounts		
ACHWM Non- Dispatchable	Greater than 1 MW	No	No	Yes	No	No			
ACHWM Dispatchable	Greater than 1 MW	Yes	Yes	Yes	No	Yes if Capacity Credit			
ACHWM Committed Purchase	N/A	No	No	Yes	No	No			

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Load Following – DAM Treatment

Load Followin	ng			DAM Treatment							
Resource Category	Nameplate	Capacity > Energy	Potential Capacity Credit	Exhibit A Amounts	Required Capacity- Based Charges*		Market Treatment	MOO*	Load Treatment	Energy < Exhibit A	Energy > Exhibit A
1 New & Existing Small	Less than 1 MW	N/A	N/A	No	No	No	N/A	No	Net Load	PF Rate	Design
2 Existing Non- Dispatchable	Greater than 1 MW	No	No	Yes	Potentially if needed to meet Exhibit A	Exhibit A Amounts	Self Schedule Bid	No Exhibit A Amounts	Cust Pays Exhibit A Amounts at DAM Load Price		Bigger DAM Resource Credit
3 Existing Dispatchable	Greater than 1 MW	Yes	No	Yes	Amounts	YES - TBD	Self Schedule Bid	YES - TBD			
4 Existing Energy Only	Greater than 1 MW	No	No	Yes	No	No	Self Schedule	No			
5 New Tier 1 Allowance	Up to 5 MW or 50% CHWM	No	No	Yes	No	No	Self Schedule Bid	No Exhibit A Amounts		Smaller DAM Resource	
6 New Tier 1 Allowance + Capacity	Up to 5 MW or 50% CHWM	Yes	Yes	Yes	No	YES - TBD	Self Schedule Bid	YES - TBD		Credit	
7 ACHWM Non- Dispatchable	Greater than 1 MW	No	No	Yes	Yes if any capacity shortfall from flat block of power	Op. Min	Self Schedule Bid	No Op. Min			
8 ACHWM Dispatchable	Greater than 1 MW	Yes	Yes	Yes	No	YES - TBD	Self Schedule Bid	YES - TBD			
9 ACHWM Committed Purchase	N/A	No	No	Yes	No	Exhibit A Amounts	N/A	Seller		N/A	N/A

^{*}This might need to change under certain future landscapes, such as new market and resource planning requirements.



Planned Products – DAM Treatment

	Planned Prod	uct	DAM Treatment							
	Resource Category	Nameplate	Market Treatment	MOO*	Load Treatment	Energy < Exhibit A	Energy > Exhibit A			
1	New & Existing Small	Less than 1 MW	N/A		BPA Pays Portion of Load served through Tier 1 Block & Tier 2	PF Rate	Design			
2	Existing Non- Dispatchable	Greater than 1 MW								
	Existing Dispatchable	Greater than 1 MW	Same for Self Schedule or Bid	Load minus portion purchased from BPA via planned product, PLVS, & RSS		Smaller DAM Resource Credit	Bigger DAM Resource Credit			
	Existing Energy Only	Greater than 1 MW								
5	New Tier 1 Allowance	Up to 5 MW or 50% CHWM								
6	New Tier 1 Allowance + Capacity	Up to 5 MW or 50% CHWM								
	ACHWM Non- Dispatchable	Greater than 1 MW								
	ACHWM Dispatchable	Greater than 1 MW								
9	ACHWM Committed Purchase	N/A								

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Takeaways

- BPA is looking at how it recovers cost
 - WRAP and potential DAM requirements around physical resources are changing.
- BPA will work with customers on the details regarding bringing capacity of Existing dispatchable dedicated resources to serve load.

Next Steps

- Finish product design.
- Following BPA's decision regarding DAM participation, come back to this topic as part of contract drafting.





Discussion