



RPM Demand Resource Modeling for CP and Base Capacity in the 2018/2019 Delivery Year

DRS Meeting
January 12, 2018

- For the 2018/2019 Delivery Year RPM auctions, a single Demand Resource model has been used, which allowed CSPs to submit and clear both CP and Base Capacity sell offers on a single RPM resource in each zone/sub-zone
 - Simplified the process of submitting coupled sell offers in the auction
 - Kept the Demand Resource model consistent with other resource types in regards to submitting sell offers and coupled sell offers for 18/19

- For the upcoming 2018/2019 Delivery Year, PJM will be separating the CP and Base commitments onto two separate RPM resources, such that each Demand Resource will either have a CP **or** Base commitment, but not both
 - Helps match product-specific registrations in DR Hub to the RPM committed product; also helps track the RPM Demand Resource capacity positions by product type
 - Consistent with the resource model used for the current Delivery Year (17/18)
- Similar to the CP Transition IAs, PJM will separate the commitment types by “adjusting” the auction results, such that the MW cleared on Annual Demand Resources as Base Capacity will be shifted to a separately modeled Base Demand Resource
 - Adjustments will be made by PJM at the end of the 18/19 Third Incremental Auction

- A single “PJM DR PEPCO” Demand Resource cleared in the 18/19 BRA
 - 6.0 MW of Cleared Capacity Performance
 - 4.0 MW of Cleared Base DR

eRPM Participant Auction Results screen

Auction Results

LDA	Resource Type	Resource	Product Type	Offered	Cleared	Make Whole	Clearing Price
PEPCO	DEMAND	PJM DR PEPCO	Base DR/EE	8.0	4.0	0.0	41.09
PEPCO	DEMAND	PJM DR PEPCO	Capacity Performance	10.0	6.0	0.0	164.77
Totals				18.0	10.0	0.0	205.86

- The "PJM DR PEPCO" Demand Resource retains its 6.0 MW of cleared CP
- The 4.0 MW of cleared Base DR is shifted to a newly modeled Base Demand Resource "PJM DR PEPCO BASE"

eRPM Participant Auction Results screen

Auction Results

LDA	Resource Type	Resource	Product Type	Offered	Cleared	Make Whole	Clearing Price
PEPCO	DEMAND	PJM DR PEPCO	Base DR/EE	8.0	0.0	0.0	41.09
PEPCO	DEMAND	PJM DR PEPCO	Capacity Performance	10.0	6.0	0.0	164.77
PEPCO	DEMAND	PJM DR PEPCO BASE	Base DR/EE	0.0	4.0	0.0	41.09
Totals				18.0	10.0	0.0	246.95



Example: Auction Results by Segment after the Resource Model Change

- PJM will add a Segment 11 to the auction results, where necessary, to effectuate the shift in cleared Base DR to a separate Demand Resource

eRPM Resource Offer Results screen

Resource Offer Results

Resource	Resource Type	Product Type	Segment Name	EFORd Risk Segment Indicator	Scheduling Option	Max MW	Min MW	Offer Price	Cleared MW	Makewhole MW	RCP
PJM DR PEPCO	DEMAND	Base DR/EE	1	<input type="checkbox"/>	Regular Schedule	4.0	0.0	9.00	0.0	0.0	41.09
PJM DR PEPCO	DEMAND	Capacity Performance	1	<input type="checkbox"/>	Regular Schedule	6.0	0.0	10.00	6.0	0.0	164.77
PJM DR PEPCO	DEMAND	Base DR/EE	2	<input type="checkbox"/>	Regular Schedule	4.0	0.0	8.00	4.0	0.0	41.09
PJM DR PEPCO	DEMAND	Capacity Performance	2	<input type="checkbox"/>	Regular Schedule	4.0	0.0	11.00	0.0	0.0	164.77
PJM DR PEPCO	DEMAND	Base DR/EE	11	<input type="checkbox"/>	Regular Schedule	0.0	0.0	0.00	-4.0	0.0	41.09
PJM DR PEPCO BASE	DEMAND	Base DR/EE	11	<input type="checkbox"/>	Regular Schedule	0.0	0.0	0.00	4.0	0.0	41.09

- The shift in Base DR commitments can also be viewed on the Demand Resource position detail screen of eRPM

eRPM Demand Resource position detail screen

Demand Resource Detail

Resource ID	Resource Name	Product Type	CP Capable	LDA	Owned	Available	RPM Non-CP Committed	FRR Non-CP Committed	RPM CP Committed
227819266	PJM DR PEPCO	Annual	Yes	PEPCO	0.0	-6.0	0.0	0.0	6.0
227819265	PJM DR PEPCO BASE	Base DR/EE	No	PEPCO	0.0	-4.0	4.0	0.0	0.0

- After the 2018/2019 Third Incremental Auction, CSPs should link their registrations to the appropriate RPM Demand Resource based off the registration's product type and zone/sub-zone
 - Registrations should be linked and marked complete prior to the start of the DY
 - Please note that registrations designated as CP and linked to an RPM Demand Resource will only be able to take on CP commitments (cannot directly replace a Base DR commitment)
- If an appropriate RPM Demand Resource is not modeled for your registration, please send an email to the rpm_hotline@pjm.com with the request to have the new resource modeled

