

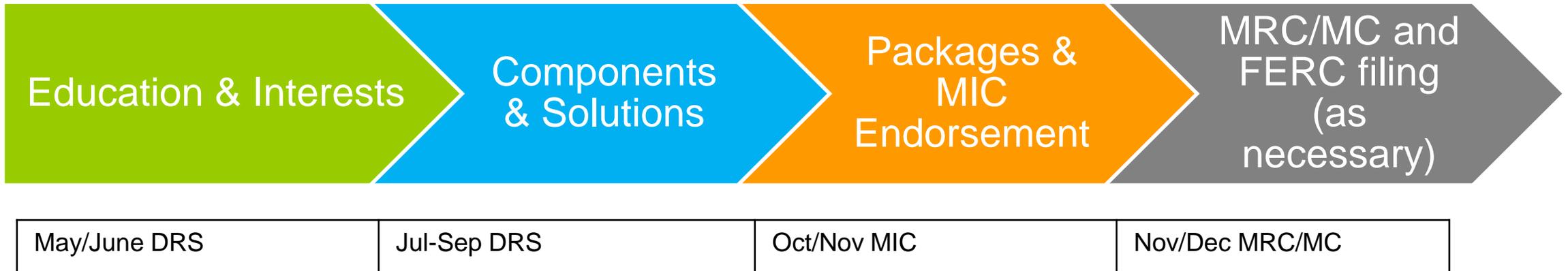
Price Responsive Demand (PRD) review for CP requirements

DRS

October 30, 2017



- PRD developed (2010 – 2012) prior to CP rules
- PJM received and approved PRD plans for the first time in January 2017 for 2020/2021 Delivery Year
- Some key DR rules were updated with the implementation of CP but PRD rules were not reviewed or updated



file endorsed changes by January – allow approved PRD plans submitted in January to be terminated because of rule changes if accepted by FERC before BRA

Component	Status
Auction/FRR Plan credit requirement	Consensus
Auction/FRR Plan Nominated capacity amount (PRD plan)	Consensus
Nominated capacity amount (PRD registration)	All agree to incorporate summer and winter capability
Daily Commitment Compliance Penalty Rate	Consensus
Event Compliance Penalty Rate	Consensus
Test Failure Charge Rate	Consensus
load reduction measurement	All agree on need to reduce load in summer and winter
add back (PJM unrestricted load for forecast and customer PLC input)	Consensus
Trigger to assess CP Penalty	All 3 agree PAH should be a least part of the trigger
Overperformance/bonus payments	Consensus
Registration aggregation	Consensus
PRD-eligible RPM Auction aggregation	Included in 1 proposal

Proposal	Support
Status Quo	27%
PJM proposal – leverage DR rules that were updated for CP for PRD	71%
Whisker Labs proposal – extend existing PRD rules for Winter period, create new Summer only PRD product and allow seasonal auction aggregation	23%
Proposal C – same as PJM but use PAH to trigger compliance	52%

*When only allowed to support 1 proposal the results were:
 Status Quo (10%), PJM (32%), Whisker Labs (14%), Proposal C (44%)*

Component	PJM	Whisker Labs	Proposal C
Nominated capacity amount (PRD registration)	Use Peak Load Contribution (PLC) and Winter Peak Load (WPL) to determine nominated amount	Use Expected Peak Load – includes adjustment (Zonal Forecast Peak / Zonal W/N Peak) to PLC and WPL	Same as PJM
Load reduction measurement	Use PLC and WPL compared to Summer and Winter Firm Service Level	Use Expected Peak Load (Summer/Winter) compared to adjusted Firm Service Level (Summer/Winter). Adjustment based on zonal load/forecast zonal load (must be ≥ 1)	Same as PJM
Trigger to assess CP Penalty	Performance Assessment Hour (PAH) and LMP greater than PRD curve	Same as PJM	PAH
PRD-eligible RPM Auction aggregation	Not applicable	Create PRD summer only product that can be aggregated with supply side winter resource in auction process to create CP resource	Not applicable