

PJM Capacity Market Changes: Capacity Performance and Demand Response

Stu Bresler Vice President - Market Operations PJM Interconnection, LLC

February 5, 2015



Capacity Performance Proposal



Assuring Performance

Performance Incentives / Penalties

Operational Availability and Flexibility

Fuel Security



Key Design Elements of Proposal

Component	Current RPM Rules	Capacity Performance
Product Definition	Obligation to be available	Obligation to deliver energy during emergencies
Performance Hours	500 per year	Emergency procedures
Obligation	Average Availability	Deliver energy during specific hours
Flexibility Requirements	Resources compensated even if inflexible	Flexibility requirements based on physical unit characteristics
Performance Payments	Peak hour availability based on average	~\$4,000/MWh during emergencies



Transition Mechanism – 2015/2016

- Demand Response uncertainty
- Net reduction in available generation
- 2015/2016 Delivery Year PJM filings to allow:
 - Procurement of additional generation under a reliability must run type of mechanism
 - Waiver of requirement to sell back Capacity in the Incremental Auction due to a reduction in the Reliability Requirement



Additional Transition Years

	2016/2017	2017/2018
Capacity Performance quantity target	60% of RTO Reliability Requirement	70% of RTO Reliability Requirement
Offer Price Cap	0.5 times Net CONE	0.6 times Net CONE
Performance Payments and stop loss	50% of proposed long-term values	60% of proposed long-term values



Evolution of Demand Response





Court Order in EPSA Case

Broad range of interpretations

foul line

Eliminate Demand Response and Energy Efficiency participation in all PJM markets

Maintain current DR/EE participation – RERRA already regulates DR through 719A provisions

foul line



A Potential Bridge to the Future

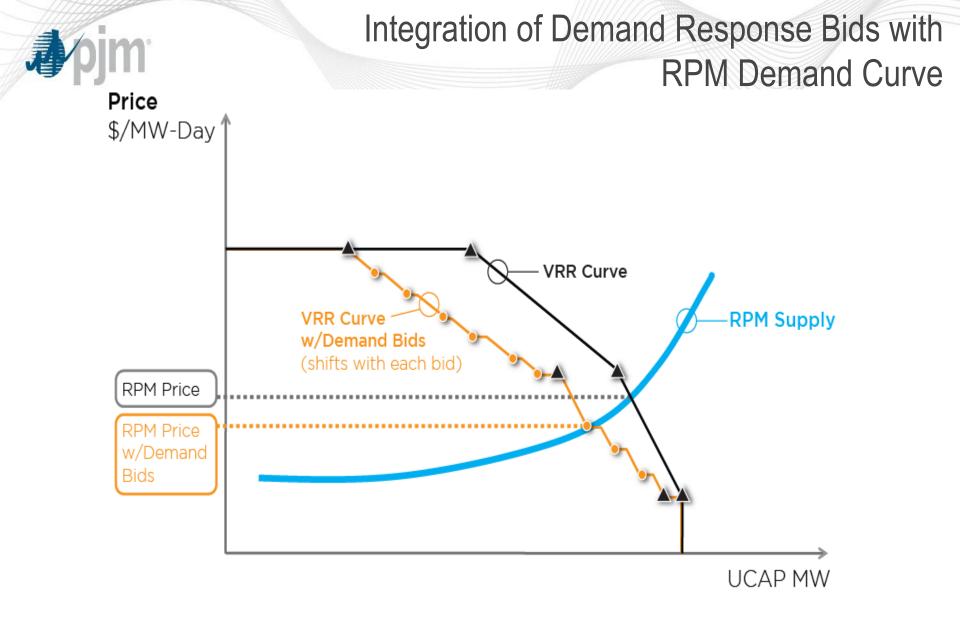
Proposed path toward market clarity and confidence – contingent on Supreme Court Action

Current state of market uncertainty



Demand Response: PJM's Filing vs Today

	Today	PJM Filing
Capacity market	Supply resource (Similar to generation)	Demand bid
Capacity obligations	Reduce load per rules	Same
Who manages?	Curtailment service provider/load serving entity	Load-serving entity/retail service provider
End-use customers	All may participate subject to regulatory rules	Same
Energy market	Economic or emergency resource; paid full LMP	No direct compensation; benefits through cost-savings
Ancillary service market	Curtailment service provider or load-serving entity manages	Same



Shown based on existing PJM VRR Curve. PJM has proposed an alternative demand curve as part of its triennial

review process.



Who Offers Demand Response into PJM's Markets Today?

