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Recommendation: RCM Regime Changes

22 November 2012

Comment

- Seems to be much confusion on how to estimate the cost of "excess"
- Brendan used a marginal value and represented it as applicable to all excess Δ not correct
 - Marginal value will approach MRCP as excess Δ zero
 - Brendan's 100x estimate is closer to 3x than 100x
- ERA used an estimate that does not reflect contracting and RCP formula impacts
 - Reduces impact by about 50%
- No one seems to be using an estimate that can be linked to a "how do we make sure that the hypothetical world can actually happen" concept
- There is no point in estimating a counterfactual that is pure fiction

Two basic choices: both are valid if implemented well

- Desirable characteristics:
 - Market-based
 - Self-correcting
 - Puts risk where it can be managed
 - Incentivises desirable behaviours
 - Compatible with longer-term market developments/evolution options



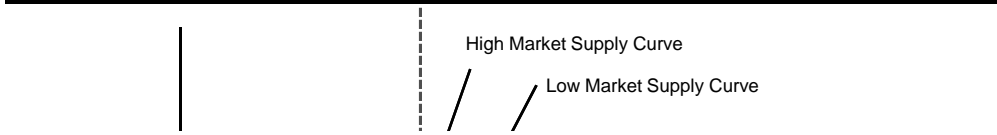
“PJM”
(auction approach)



WA RCM
(with changes)

Complexity of Capacity Markets with Auction Components

PJM	NYISO	ISO-NE
<ul style="list-style-type: none"> • One year commitment 3 years forward • Sloped VRR curve in RPM auction • Locational market clearing • Energy and AS margins for marginal new unit accounted for in setting demand curve • UCAP product with penalties/bonuses based on performance relative to EFORd during peak hours. • Bids subject to significant mitigation for seller and buyer market power. 	<ul style="list-style-type: none"> • Seasonal and monthly auctions for prompt period • Administrative demand curve in spot auction • NYC and LI requirements • Energy and AS margins for marginal new unit accounted for in setting demand curve • UCAP product with availability determined by EFORd metric • FERC proceeding underway to review market design, which currently only applies to divested units in NYC 	<ul style="list-style-type: none"> • One year commitment 3 years forward • Descending clock auction with vertical demand curve • Locational market clearing • Ex post PER adjustment <ul style="list-style-type: none"> • Based on earnings of a 22,000 Btu/Kwh unit • Rolling average for 12 months prior to delivery. • Availability metric based on performance in critical hours • Bid and payments not mitigated for new units; existing units subject to mitigation measures



Proposal for the RCM

- Retain the RCM and recognise that it can be an effective market-based mechanism, but that it requires several significant adjustments.
- Steepen the slope factor in the RCP formula to -3.75
- Increase the maximum RCP to 110% of the MRCP (or build in a 10% margin within the MRCP)
- Use 97% of the RCR as the basis for the RCP formula (so that the RCP is 110% of the MRCP at 97% of the RCR, and is equal to the MRCP at the RCR).
 - Note that a supplemental auction would still be called if the CCs fall below the RCR. Under such situation, any uncontracted CCs procured through the IMO would be sold at up to 110% of the RCP, per the formula.
- Implement the refunds + rebate (recycling) regime as discussed

What to compare the current regime to?

Assumes 15% ERC

Assumed average contract price (as % of MRCP)	Proposed @50% Contracting		Existing @50% Contracting		90% @ contract price; 10% at MRCP (No Excess)
90%	\$759,681,867		\$809,460,769		\$791,682,892
85%	\$738,584,823		\$787,711,239		\$752,533,738
80%	\$717,487,779		\$765,961,709		\$713,384,584

The "No Excess" case is a control case in which, essentially, a spigot control concept is applied so that only the precise amount of reserve capacity is included (Zero Excess) – but the cost is in accordance with the contract price assumption, a contract level (90%) assumption and the MRCP

The "Existing" case incorporates the current RCP formula and 50% contracting

The "Proposed" case incorporates the steeper slope, 97% offset and a +3% adjustment upwards to account for "lost" refund regime revenue

In all cases, and across a wide range of assumptions, when contracting is at 50%, the "no excess" case is always more expensive than the existing case – the reason is simple – there is no contracting incentive, so a significant amount of RCP risk (including MRCP resets) already flows through to capacity resource providers.

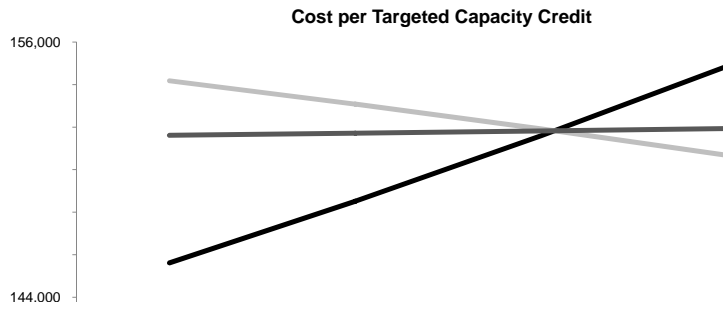
What to compare the current regime to?

Assumed average contract price (as % of MRCP)	Proposed @50% Contracting	Proposed @90%			

Alternatively – and more usefully -- what is the cost to the market of one more capacity credit, for a given contract position

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Proposal provides a clear risk management structure



Proposal for the RCM

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Efficiency	Competition	Discrimination	Cost	Usage
1	2	3	4	5
Y	Y	Y	Y	0