

# **PJM FTR Credit Alternatives**

**Undiversified Adder and Minimum Requirements** 

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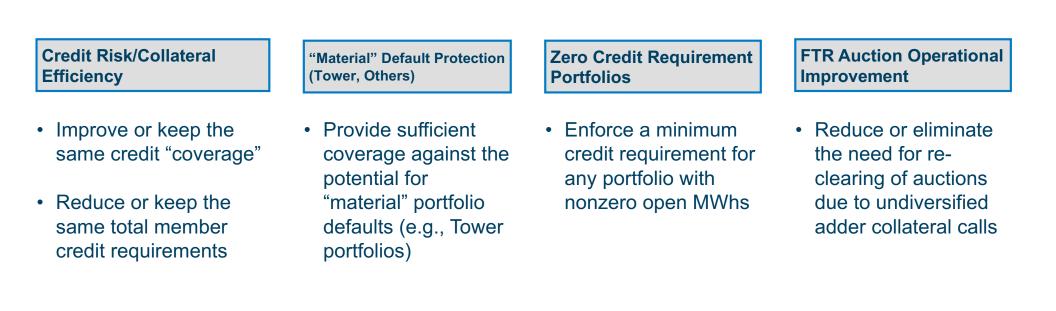
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Coming out of the stakeholder process, we believe any new credit policy needs to address a number of key concerns

### **PJM FTR Credit Changes**

- Requirements -





	PJM FTR Credit Changes – New Proposal –									
	Undiversified Adder	Historical Adj.	\$/MWh Minimum	Mark to Market						
Proposed Change	<ul> <li>Modify undiversified adder to the following: in any portfolio-month with &gt; \$2MM net counterflow position, credit requirement will be 3x the value above \$2MM; otherwise, the undiversified requirement is \$0</li> </ul>	<ul> <li>Maintain 10% adjustment for prevailing flow FTRs</li> <li>Implement previously- agreed 25% adjustment for counterflow FTRs</li> </ul>	<ul> <li>Implement a simple minimum on a member's total credit requirement, based on the total MWhs held</li> </ul>	• Mark portfolio utilizing the most recent auction for each period. If this value is greater than collateral currently posted, require posting mark to market value						
Purpose	<ul> <li>Protect against "material" defaults such as Tower, while not overcollateralizing other portfolios</li> <li>Significantly reduce likelihood of intra-auction collateral calls</li> </ul>	<ul> <li>Protect against smaller defaults and add a buffer for the less frequent use of the undiversified adder</li> </ul>	<ul> <li>Protect against smaller defaults / "netting" of collateral requirements</li> <li>Nonzero credit for an open portfolio makes fundamental credit sense</li> </ul>	<ul> <li>Protect against continued accumulation of a position viewed as unprofitable by the market</li> <li>This treatment is standard across most financial markets</li> </ul>						



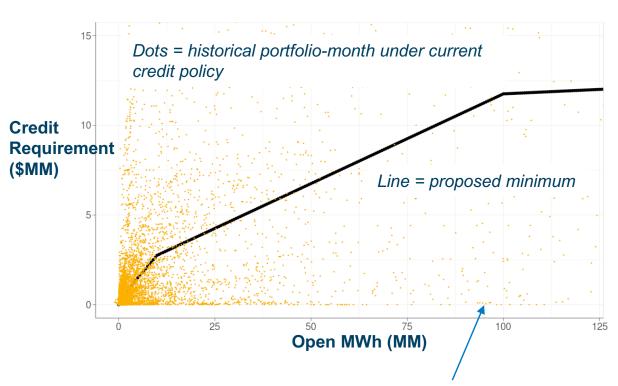
## \$/MWh Minimum

- Overview -

### Marginal Open MWh Minimum Credit Rates

### Cumulative \$/MWh Requirement Curve

Open MWh	Marginal Credit Rate	Base From Prior Tier	
First 1MM MWh	\$0.50 / MWh	-	
1MM – 10MM MWh	\$0.25 / MWh	\$500K	
10MM – 100MM MWh	\$0.10 / MWh	\$2.75MM	
Above 100 MM MWh	\$0.01 / MWh	\$11.75MM	

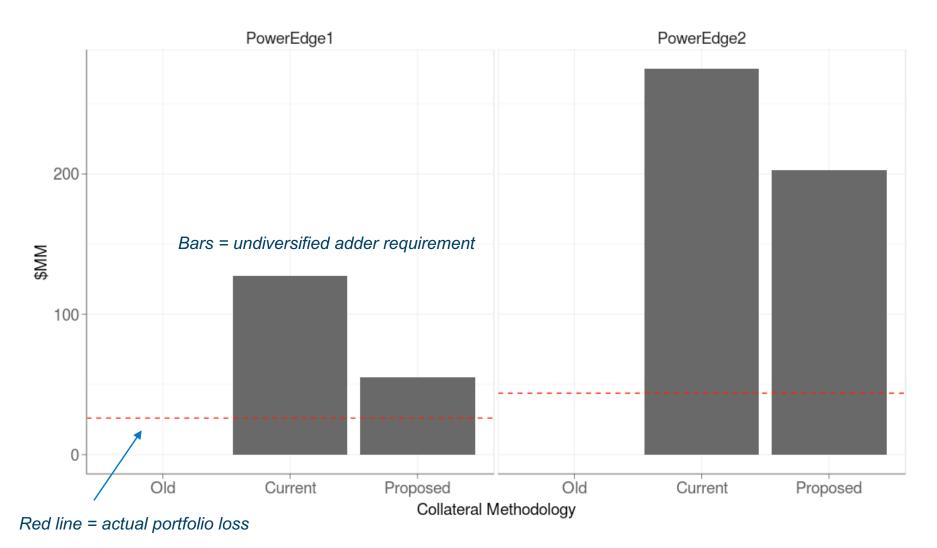


Under the current credit policy, there are large portfolios in terms of open MWh with zero or close to zero credit requirement



PJM FTR Credit

- Tower Required Credit vs. Portfolio Loss -



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A portfolio would have to post collateral equal to the greater of the calculated collateral or its mark to market losses

### Mark to Market Example

- Example Portfolio, All Paths are 24h, As of Nov 17 -

Path	MW	Auction Bought In	Month/Class	Price at Acquisition	Auction Marked To	Latest Auction Price	Mark To Market
А	1	17/18 Annual	2017-11-01	\$500	Nov BOPP	\$100	(\$400)
A	1	17/18 Annual	Q3: 2017-12-01 to 2018-02-28	\$1,500	Nov BOPP	\$2000	\$500
A	1	17/18 Annual	Q4: 2018-03-01 to 2018-05-31	\$1,500	Nov BOPP	\$500	(\$1,000)
В	1	Oct BOPP	Q4: 2018-03-01 to 2018-05-31	\$500	Nov BOPP	\$400	(\$100)
С	1	18/21 LT Rd. 1	YR1: 2018-06-01 to 2019-05-31	\$10,000	18/21 LT Rd. 2	(\$10,000)	(\$20,000)
D	1	18/21 LT Rd. 2	YR1: 2018-06-01 to 2019-05-31	\$200	18/21 LT Rd. 2	\$200	\$0
Tot	tal						(\$21,000)

To obtain a mark to market value for Path A, break down remaining open position to individual periods from latest BOPP auction. Assume original invest is evenly distributed. In this instance, some strips are marked positively and others negatively Total Collateral on Portfolio (existing rules): Total Proposed Collateral (Minimum \$/MWh): Total Collateral with Mark to Market:

\$0 \$12,407 (24,815 MWh @ \$0.5/MWh) \$21,000

Above Portfolio would have to post \$21,000 in collateral as the mark to market loss value is larger than the \$12,407 collateral required by the \$/MWh minimum