

2016-04-08 NYSRC Executive Committee (EC)

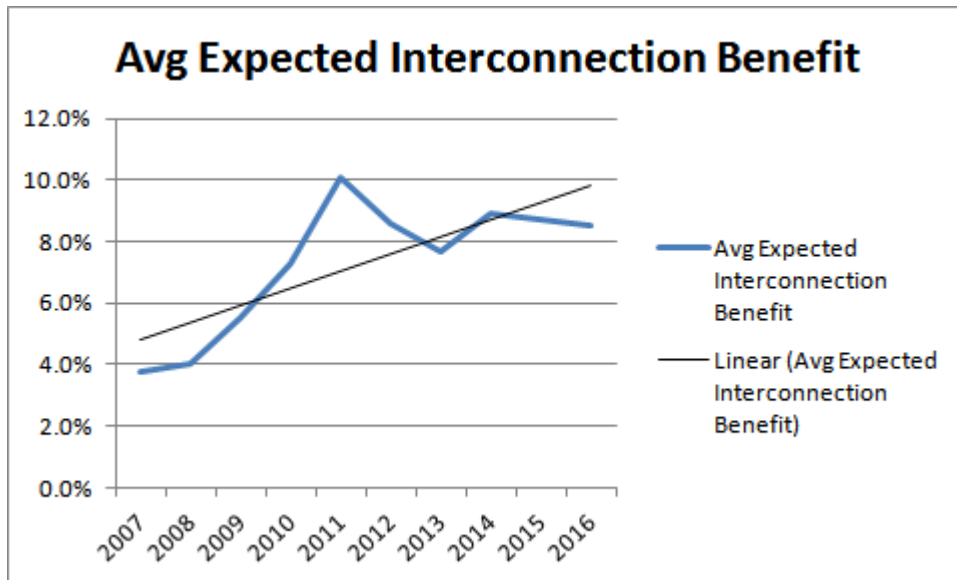
Summary of 2016-03-29 Installed Capacity Subcommittee (ICS) meeting

**Status of Studies, Scopes and White Papers for 2017 IRM Study**

NYISO Emergency Assistance Model – G. Drake

The NYISO study scope on investigating acceptable levels of emergency assistance from our neighbors was not presented as promised. ICS believes that NYISO will not deliver its promised white paper by the May 4 ICS meeting. NYISO indicated they too did not see a white paper being delivered in time for ICS to review the scope, NYISO to make requested changes, and to deliver an acceptable analysis by the May 4 ICS meeting. Because NYISO missed its requested delivery date, scopes that were dependent on NYISO's results will also not make their delivery dates. It is ICS's hope that NYISO will be able to deliver a white paper in time for the sensitivities and that other inter-related studies can be performed this year. In order to complete the IRM on time, ICS will follow Policy 5 without deviations.

NYISO presented a presentation titled "Interconnection Benefit Levels Overview" to ICS. The report presented a potential introduction (we believe) study scope, but was lacking any specifics to how import level restrictions would be determined. The NYISO showed the amount of expected benefits we had assumed in prior years.



NYISO also showed the amount of imports that our neighbors would accept from us.

<b>NE Historical Tie Benefits</b>									
	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
<b>Total Tie Benefits (FCA)</b>	1,800	1,665	1,700	1,673	1,676	1,870	1,870	1,970	1,990
Summer FPL	27,550	26,462	29,365	32,208	29,380	29,400	29,790	30,005	30,230
TB / Summer FPL	6.5%	6.3%	5.8%	5.2%	5.7%	6.4%	6.3%	6.6%	6.6%
<b>PJM Historical CBOTs</b>									
	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	
<b>Capacit Benefit Margin Cap</b>	3500	3500	3500	3500	3500	3500	3500	3500	3500
<b>Capacity Benefit Of Ties</b>	1,700	2,830	3,007	3,007	3,093	2,675	3,144	2,765	
<b>PJM Mid-Atlantic FPL</b>	64,748	64,706	65,580	64,347	63,948	63,767	62,985	59,399	
<b>CBOT / Mid-Atlantic FPL</b>	2.6%	4.4%	4.6%	4.7%	4.8%	4.2%	5.0%	4.7%	
<b>PJM RTO FPL</b>	147,183	147,442	163,093	166,506	165,691	167,211	165,479	162,618	
<b>CBOT / RTO FPL</b>	1.2%	1.9%	1.8%	1.8%	1.9%	1.6%	1.9%	1.7%	
<b>Comparison of Interconnection Benefits</b>									
	2012/13	2013/14	2014/15	2015/16	2016/17				
<b>ISONE (TB)</b>	6.3%	5.8%	5.2%	5.7%	6.4%				
<b>PJM (CBOT)</b>	2.6%	4.4%	4.6%	4.7%	4.8%				
<b>NYISO</b>	8.6%	7.7%	8.9%	8.7%	8.5%				

ICS did question the presentation's facts and found the data very interesting. From the presentation we did learn a bit more about how our neighbor's view us helping them, but not how we would arrive be determining levels of help from them.

The other sensitivities (not dependent on the NYISO EA process) appear from their sponsor's responses to be on schedule.

**Load Shape Modeling for 2017 IRM/LCR Studies presentation was given by NYISO's Mike Welch.**

NYISO has trimmed days and hours off the process of aligning load shapes to minutes to accomplish the task. Mike explained that NYISO automated the process in 2014 using MATLAB®. The process was shown through various graphs and examples to be acceptable to ICS.

**Proposed Change to the Calculation of SCR<sup>1</sup> Model Values for IRM Studies presentation was given by NYISO's Vijaya Ganugula (VJ)**

VJ proposed using 5 years of historical data, but only using the best 4 hours and including test hours that may have been occurred in non-peak hours. The results of VJ's analysis follow.

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<sup>1</sup> SCRs (Special Case Resources) are demand response providers

<b>SCR Model Values for IRM Studies for Zone J</b>			
<b>Methodology</b>	<b>July 2015 ICAP MW</b>	<b>Effective Performance Factor</b>	<b>SCR Model Value MW</b>
2015: Effective Performance Factor - Existing Methodology	386.1	55.5%	214.3
2016: Existing Methodology	386.1	71.9%	277.6
<b>2016: Proposed Methodology</b>	<b>386.1</b>	<b>62.5%</b>	<b>241.3</b>
<b>Impact of Proposed Change</b>	<b>0.0</b>	<b>-9.4%</b>	<b>-36.3</b>

The supply sector's Mark Younger took issue with the analysis on a number of levels (two listed here).

1. Data outside peak hours should not be included.
2. Data was not provided in sufficient detail to review the analysis.
3. The NYISO should use the same methodology for non-NYSRC studies as done for the IRM study.

Mark requested that VJ return with more detailed data and that an analysis be run without test data and a presentation on what the differences are between the scarcity pricing results and the proposed methodology.

I mentioned that using 5 years of data was a positive change, as it puts SCRs in alignment with the analysis use for generator performance. I requested that an analysis of all hours performed that SCRs performed be analyzed for the 5-year period. Since SCRs maybe called at hour of the day, an all hours' analysis seems appropriate.