

## IESO Engagement

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**From:** IESO Engagement  
**Sent:** October 19, 2016 12:55 PM  
**To:** IESO Engagement  
**Subject:** MRWG -Study Information

The IESO has received some requests from MRWG members to provide a bit more information on some of the studies which Brattle will draw on as part of its analysis; links to this information have been provided below. For some of these studies, we have provided page ranges to point readers to the most relevant parts of each report; these page ranges reflect the actual PDF pages, not the document page numbering. The links below will also be posted on the MRWG webpage.

Regards,

IESO Engagement

+++This communication is being sent to all MRWG participants+++

### Operability Studies

- Pan-Canadian Wind Integration Study (PCWIS)
  - Link 1: <http://canwea.ca/wp-content/uploads/2016/07/pcwis-section01-summaryreport.pdf>
  - Pages 14-19, 53-54
  - Link 2: <http://canwea.ca/wp-content/uploads/2016/07/pcwis-section08-sensitivityanalysis.pdf>
  - Pages 37-39
- Cost-Benefit Analysis of ERCOT's Future Ancillary Services (FAS) Proposal (Newell)
  - Link: [http://www.ercot.com/content/wcm/key\\_documents\\_lists/30517/667NPRR\\_12a\\_Cost\\_Benefit\\_Analysis\\_122115.pdf](http://www.ercot.com/content/wcm/key_documents_lists/30517/667NPRR_12a_Cost_Benefit_Analysis_122115.pdf)
  - Pages 5-10, 25-34
- Ramp Capability Product Cost Benefit Analysis (MISO)
  - Link: <https://www.misoenergy.org/Library/Repository/Communication%20Material/Strategic%20Initiatives/Ramp%20Capability%20Product%20Cost%20Benefit%20Analysis.pdf>
  - Pages 1-2, 12-13, 23-24
- Low Carbon Grid Study: Analysis of a 50% Emission Reduction in California (NREL)
  - Link: <http://www.nrel.gov/docs/fy16osti/64884.pdf>
  - Pages 6-10, 35-36

### Intertie Studies

- IESO 15-minute intertie scheduling study (IESO)
  - Link: [http://www.ieso.ca/Documents/consult/se115/se115\\_20130926\\_Study.pdf](http://www.ieso.ca/Documents/consult/se115/se115_20130926_Study.pdf)
- Analysis of the Broader Regional Markets Initiatives (Patton)
  - Link: [https://www.potomaceconomics.com/uploads/midwest\\_presentations/BRM\\_Analysis\\_Final\\_Presentation\\_to\\_RTOs\\_9-27-10.pdf](https://www.potomaceconomics.com/uploads/midwest_presentations/BRM_Analysis_Final_Presentation_to_RTOs_9-27-10.pdf)
  - Pages 5-10
- Benefits of Coordinating the Interchange between NY and NE (Patton)

- Link: [http://www.nyiso.com/public/webdocs/markets\\_operations/committees/bic\\_miwg/meeting\\_materials/2011-01-21/Benefits\\_of\\_Improved\\_Interchange\\_NY-NE\\_\(2\).pdf](http://www.nyiso.com/public/webdocs/markets_operations/committees/bic_miwg/meeting_materials/2011-01-21/Benefits_of_Improved_Interchange_NY-NE_(2).pdf)
- 2015 NYISO State of the Market report (Patton)
  - Link: [http://www.nyiso.com/public/webdocs/markets\\_operations/documents/Studies\\_and\\_Reports/Reports/Market\\_Monitoring\\_Unit\\_Reports/2015/NYISO%202015%20SOM%20Report\\_5-23-2016-CORRECTED.pdf](http://www.nyiso.com/public/webdocs/markets_operations/documents/Studies_and_Reports/Reports/Market_Monitoring_Unit_Reports/2015/NYISO%202015%20SOM%20Report_5-23-2016-CORRECTED.pdf)
  - Pages 70-80, 261-285
- White Paper on Inter-Regional Interchange Scheduling (ISO-NE and NYISO)
  - Link: [https://www.iso-ne.com/static-assets/documents/pubs/whtpprs/iris\\_white\\_paper.pdf](https://www.iso-ne.com/static-assets/documents/pubs/whtpprs/iris_white_paper.pdf)

## Capacity Market Studies

- Resource Investment in Competitive Markets (PJM)
  - Link: <http://www.pjm.com/~media/documents/reports/20160505-resource-investment-in-competitive-markets-paper.ashx>
- Second Performance Assessment of PJM's Reliability Pricing Model (Brattle)
  - Link: [http://www.brattle.com/system/publications/pdfs/000/004/833/original/Second\\_Performance\\_Assessment\\_of\\_PJM's\\_Reliability\\_Pricing\\_Model\\_Pfeifenberger\\_et\\_al\\_Aug\\_26\\_2011.pdf?1378772133](http://www.brattle.com/system/publications/pdfs/000/004/833/original/Second_Performance_Assessment_of_PJM's_Reliability_Pricing_Model_Pfeifenberger_et_al_Aug_26_2011.pdf?1378772133)
- Resource Adequacy in California (Brattle)
  - Link: [http://www.brattle.com/system/publications/pdfs/000/004/827/original/Resource\\_Adequacy\\_in\\_California\\_Calpine\\_Pfeifenberger\\_Spees\\_Newell\\_Oct\\_2012.pdf?1378772133](http://www.brattle.com/system/publications/pdfs/000/004/827/original/Resource_Adequacy_in_California_Calpine_Pfeifenberger_Spees_Newell_Oct_2012.pdf?1378772133)
- Enhancing the Efficiency of Resource Adequacy Planning and Procurements in the Midcontinent ISO Footprint (Brattle)
  - Link: [http://www.brattle.com/system/publications/pdfs/000/005/221/original/Enhancing\\_the\\_Efficiency\\_of\\_Resource\\_Adequacy\\_Planning\\_and\\_Procurements\\_in\\_the\\_MISO\\_Footprint\\_Newell\\_Spees\\_1115.pdf?1448034421](http://www.brattle.com/system/publications/pdfs/000/005/221/original/Enhancing_the_Efficiency_of_Resource_Adequacy_Planning_and_Procurements_in_the_MISO_Footprint_Newell_Spees_1115.pdf?1448034421)
- Open Letter to GAO Addressing Senator's Capacity Market Questions (Brattle)
  - Link: [http://www.brattle.com/system/news/pdfs/000/001/055/original/Brattle\\_Open\\_Letter\\_to\\_GAO\\_-\\_Response\\_to\\_U.S.\\_Senators%E2%80%99\\_Capacity\\_Market\\_Questions.pdf?1462477158](http://www.brattle.com/system/news/pdfs/000/001/055/original/Brattle_Open_Letter_to_GAO_-_Response_to_U.S._Senators%E2%80%99_Capacity_Market_Questions.pdf?1462477158)