

IESO External Gas-Electric Activities

Dan Rochester, Manager, Reliability Assessments
November 5, 2014



Two primary activities underway with external groups:

1. EIPC Gas-Electric System Interface Study

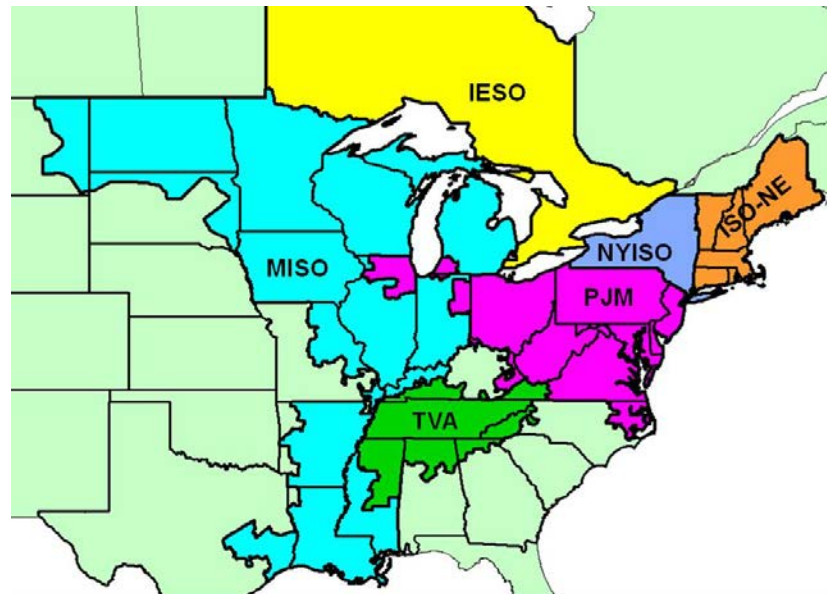
- Eastern Interconnection Planning Collaborative:
 - 6 of 25 participating planning authorities (PPAs)
 - Funding from US Department of Energy (DOE).
- Ontario gas infrastructure is robust, and the level of firm service contracting by generators means low likelihood of constraints 5 and 10 years in the future.
- Project is scheduled for completion June 4, 2015.

2. ISO/RTO Council (IRC) Electric Gas Coordination Task Force

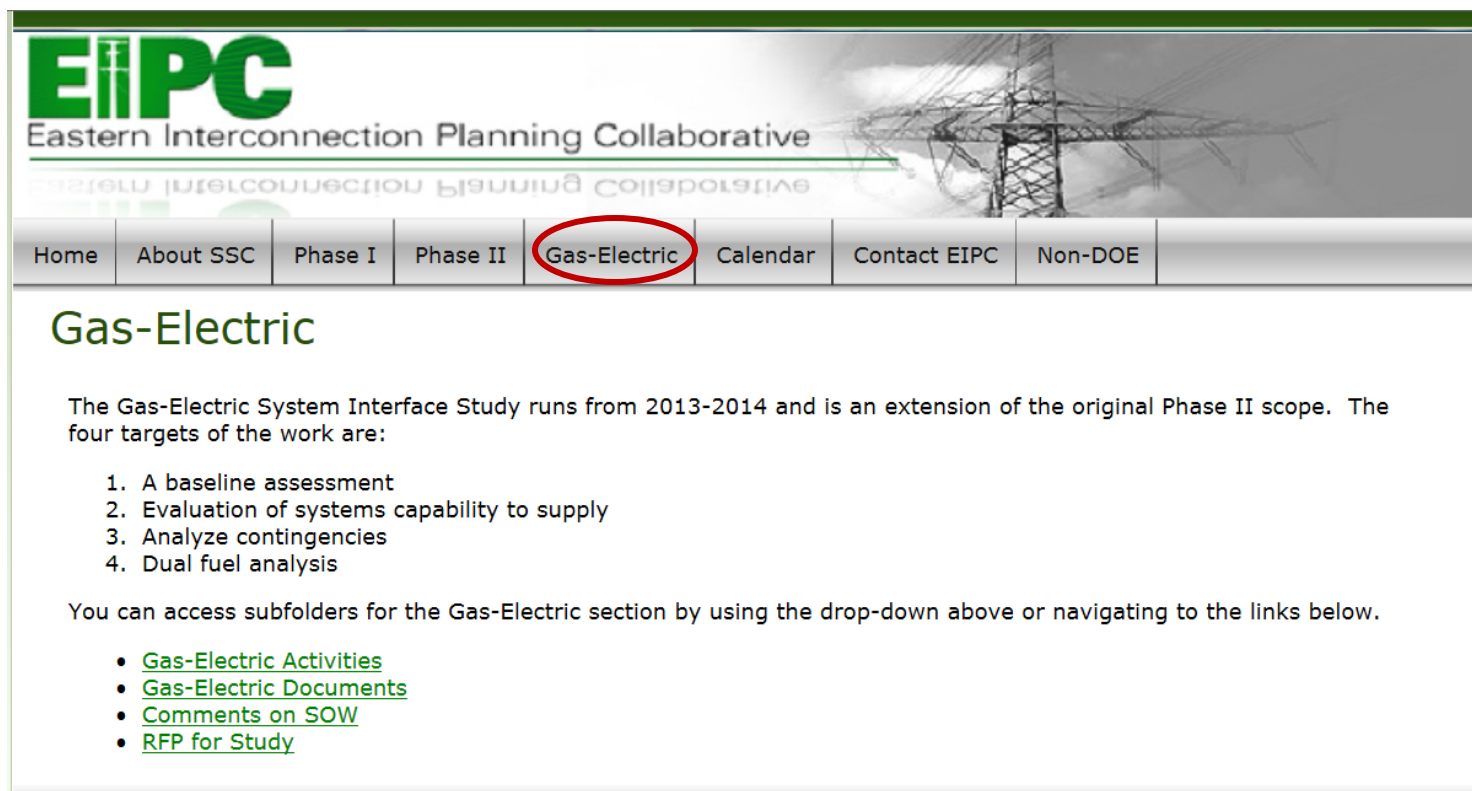
- The activity of most interest is involvement in FERC/NAESB changes to gas market timing in the US.
- The task force supports changes to improve the ability of generators to nominate and receive gas needed to meet electricity market obligations.

- Participating Planning Authorities

- IESO
- ISO-NE
- NYISO
- MISO
- PJM
- TVA



Documents are posted at <http://www.eipconline.com/Gas-Electric.html>.



The screenshot shows the EIPC website interface. At the top left is the EIPC logo (Eastern Interconnection Planning Collaborative) with a background image of power lines. Below the logo is a navigation menu with the following items: Home, About SSC, Phase I, Phase II, Gas-Electric (circled in red), Calendar, Contact EIPC, and Non-DOE. The main content area is titled "Gas-Electric" and contains the following text:

The Gas-Electric System Interface Study runs from 2013-2014 and is an extension of the original Phase II scope. The four targets of the work are:

1. A baseline assessment
2. Evaluation of systems capability to supply
3. Analyze contingencies
4. Dual fuel analysis

You can access subfolders for the Gas-Electric section by using the drop-down above or navigating to the links below.

- [Gas-Electric Activities](#)
- [Gas-Electric Documents](#)
- [Comments on SOW](#)
- [RFP for Study](#)

Gas-Electric Interface Study Targets

- **Target 1:** Baseline the existing natural gas-electric system interfaces.
Complete and Posted
- **Target 2:** Evaluate the capability of the natural gas systems to satisfy the needs of the electric systems in 2018 and 2023.
Under DOE Review for CEII/Confidential Information
- **Target 3:** Identify natural gas system contingencies that could impact electric system reliability, and vice versa.
In-Progress: Draft results in early 2015
- **Target 4:** Review the operational / planning issues affecting the availability of dual fuel capable generation, including fuel assurance objectives. Also examine issues that might affect the feasibility of selecting dual fuel versus gas system expansion.
Draft to DOE December 5, 2014, following November stakeholder review

- First meeting was held in November 2013.
- Formed for the purpose of providing best practices review as relevant to gas adequacy assurance for improved electric transmission reliability across the 9 ISOs/RTOs (2 Canada, 7 US).
- Scope:
 - Communications
 - Coordination of infrastructure changes
 - Responses to FERC initiatives (NOPRs, orders)
 - Coordination of gas schedules
 - Seasonal assessments
 - Long-term studies
 - Planning
 - Market design
 - Reliability criteria
- FERC NOPR → activities with INGAA, NGA, and NAESB

Proposed Gas Nomination Changes

	Current NAESB Standard		FERC NOPR		NAESB WGQ response	
	Deadline	Gas Flow	Deadline	Gas Flow	Deadline	Gas Flow
Gas Day	-	09:00	-	04:00	-	09:00
Timely Nomination	11:30	09:00	13:00	04:00	13:00	04:00
Evening Day-Ahead	18:00	09:00	18:00	04:00	18:00	04:00
Intraday 1	10:00	17:00	08:00	12:00	10:00	14:00
Intraday 2	17:00	21:00	10:30	16:00	14:30	18:00
Intraday 3	-	-	16:00	19:00	19:00	22:00
Intraday 4	-	-	19:00	21:00	-	-

All times are Central Time.

Thank You