

MMU Comments on Firm Fuel Capacity Accreditation Proposal

Presented by:

Pallas LeeVanSchaick, Ph.D.
NYISO MMU

Installed Capacity Working Group
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Introduction

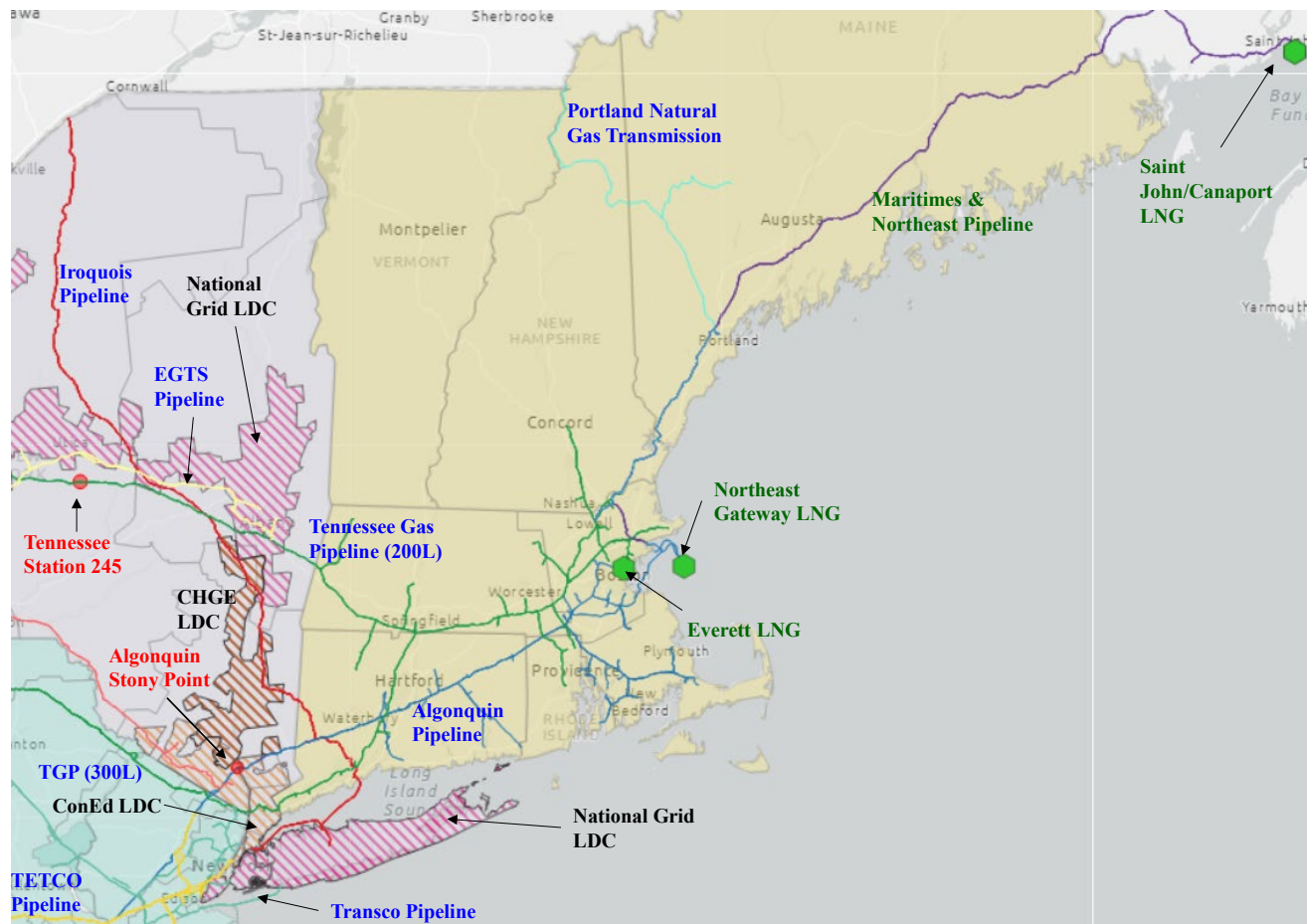
- NYISO has recognized the need to accredit capacity resources based on marginal reliability impact.
- This “marginal accreditation” is important for the transition:
 - From a conventional resource mix with summer risk
 - To a non-conventional resource mix with winter risk
- NYISO’s current tariff: Applies marginal accreditation to firm gas and oil units (starting in 2026/27 CY) and is enforced based on documentation.
- NYISO’s proposal: Fundamentally alters obligations of gas-fired units in the firm fuel CARC by imposing performance-based enforcement rules.
- This presentation provides our evaluation of the NYISO proposal and recommends improvements to address our concerns.

Introduction

- Based on our evaluation of the NYISO Proposal, we find that it would:
 - Would create incentives generators to rely on inferior types of firm service to qualify for the firm fuel CARC.
 - Would dilute incentives for firm service and undermine reliability benefits of firm fuel capacity accreditation under winter conditions.
 - Would rely primarily on FERC enforcement to address the conduct that may result from these incentives.
- Overview of presentation:
 - Natural gas supply and demand in the Northeast US
 - Evaluation of NYISO Proposal on incentives for firm contracting and enforcement of obligations
 - Conclusions and recommendations

Natural Gas Supply and Demand in the Northeast US

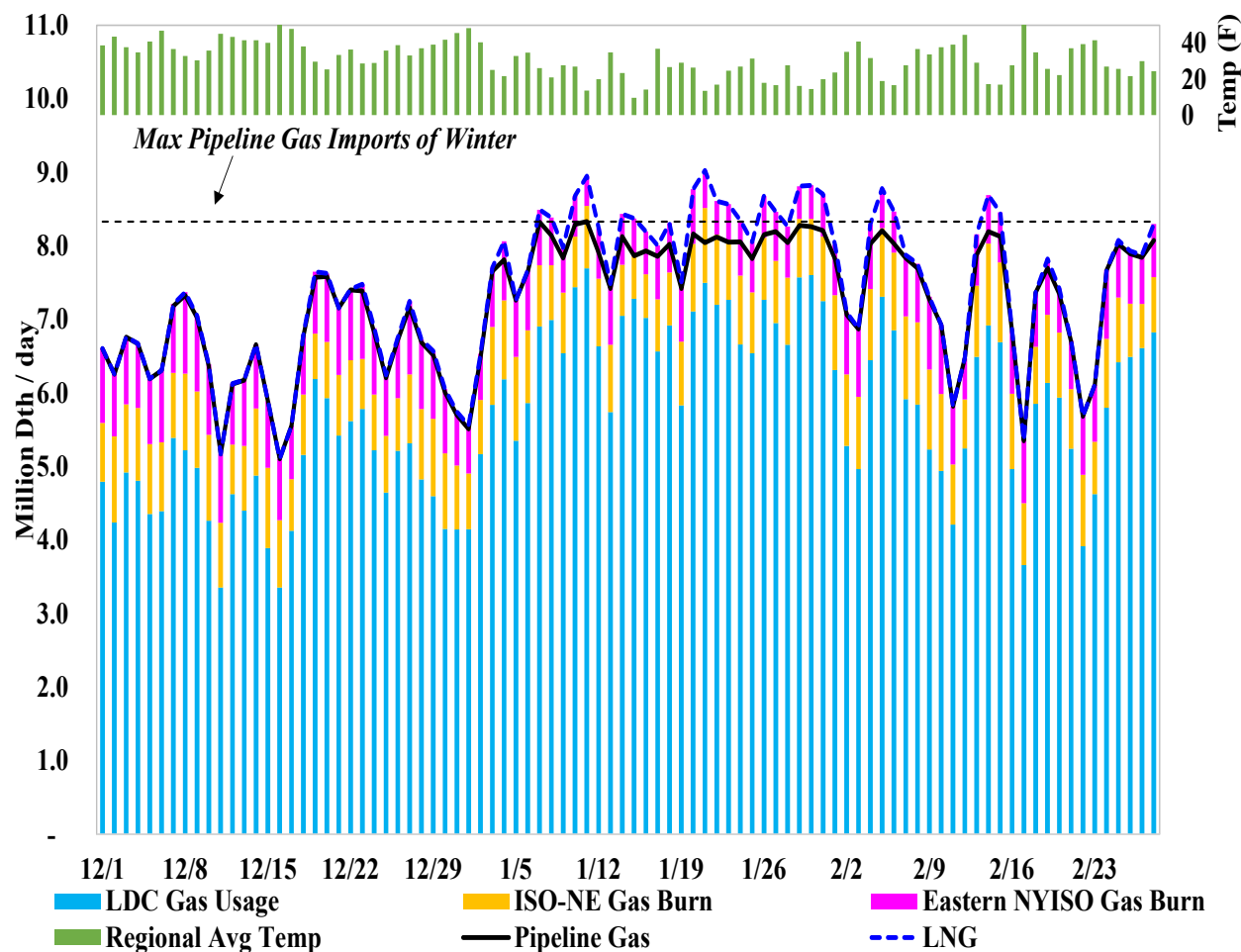
Pipeline Network in New York & New England



- East NY & ISO-NE are import constrained
- Pipelines provide fixed import capability
- LDCs must maintain security and reliability
- Gas storage is limited in the Northeast
- Incremental supply is provided by LNG imports

Daily Supply & Demand for Gas in East NY & ISO-NE

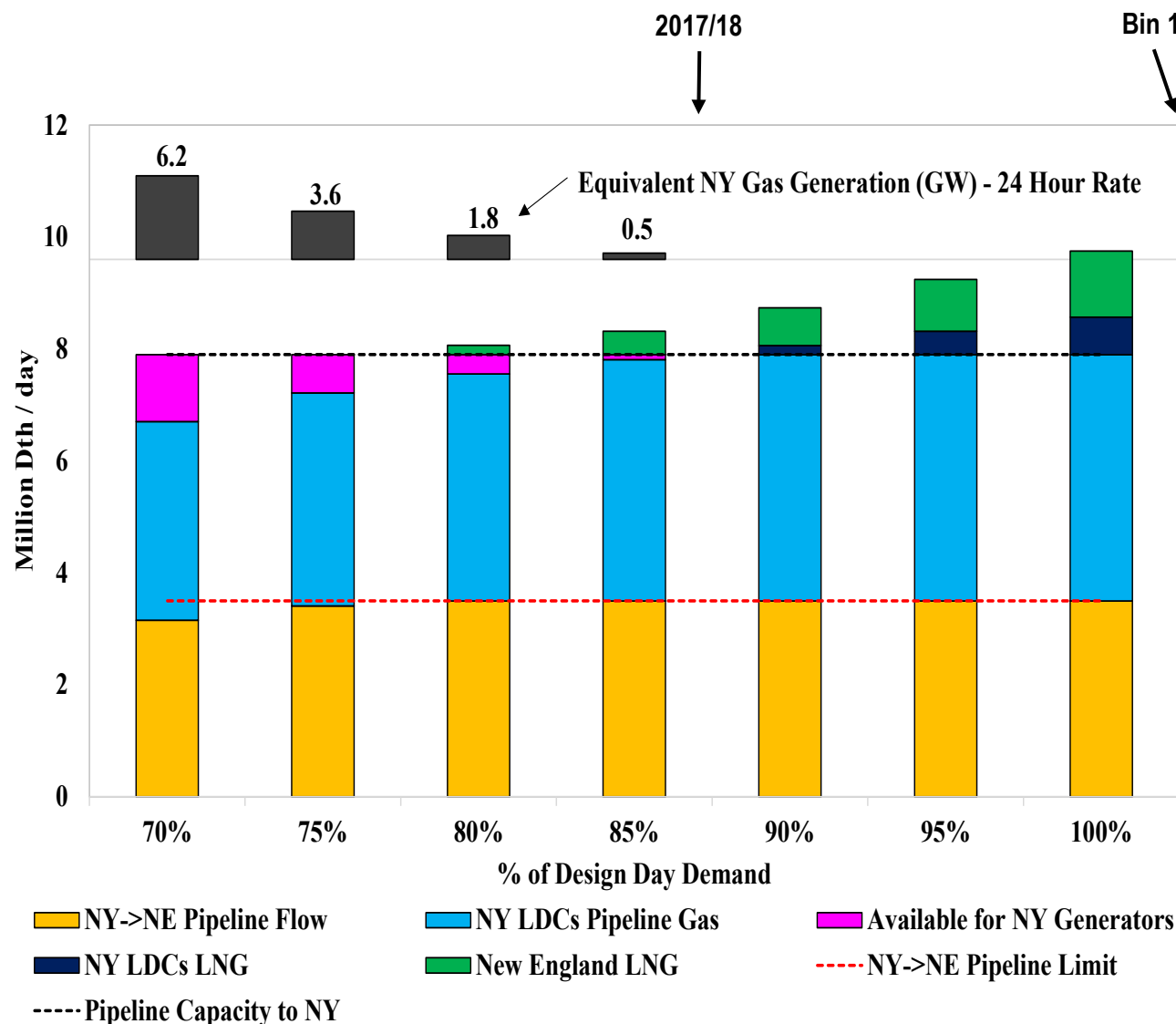
Winter of 2021/22 – See NYSRC ICS Materials for details [\(here\)](#)



- Pipeline capability was ~8.3M Dth/day
- LDC usage peaked at 7.8M Dth one day (Jan 11th)
- East NY gas-fired generation made possible by LNG imports on that day
- This winter had the 3rd coldest January since 2011 but was moderate overall

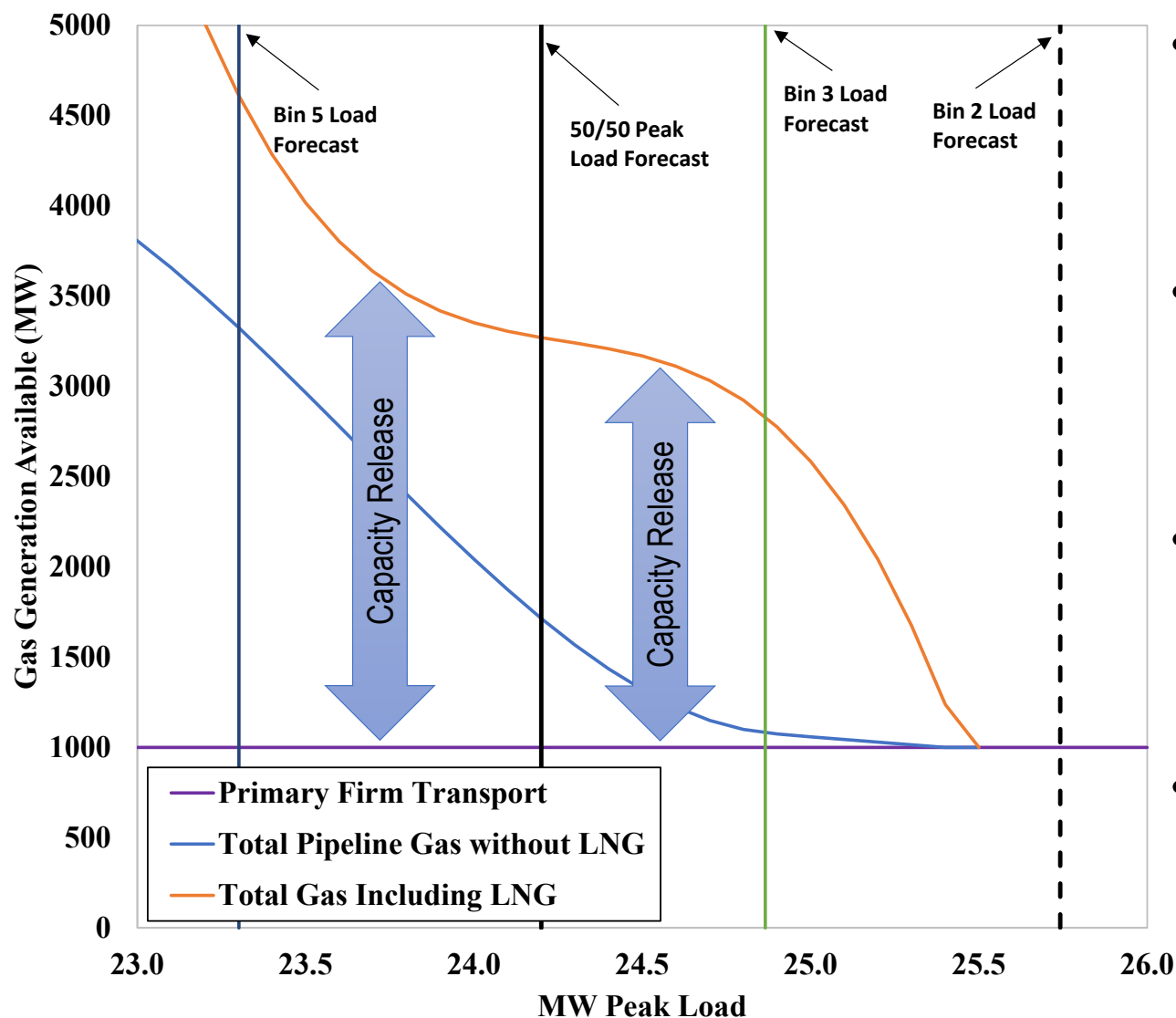
Planning for Design Day Conditions by Northeast LDCs

Illustration of Gas Availability if Generators Do Not Contract for Firm



- LDCs plan for 100% of design day conditions
- LDC design day needs exceed pipeline capability + LNG storage
- LDCs supplement with LNG imports
- Firm contracting by gas-fired units leads LDCs to rely more on LNG imports
- Gas available thru capacity release in most winters

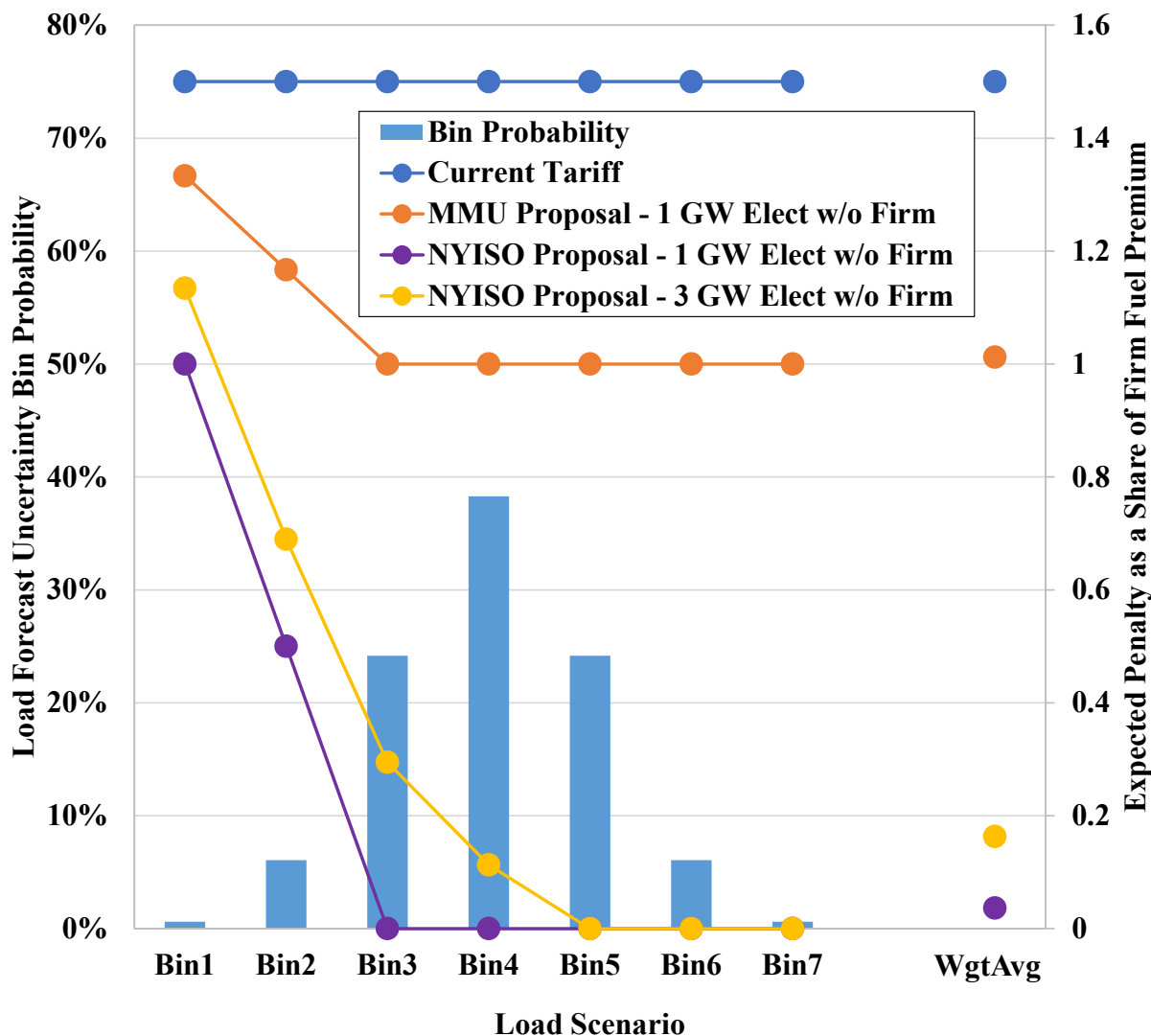
Gas Available to East NY Generators by Load Level



- Few generators acquire primary firm transport for the winter
- Available gas estimated from historic operations 2017/18 to 2021/22
- Most firm gas used by generators was available through capacity release
- Capacity release shrinks in RA-risk hours (i.e., Bins 1&2)

Effects of NYISO Proposal on Gas-Fired Generators

Expected Penalty if Firm CARC Unit Relies on Non-Firm



- We estimated gas available through capacity release by LFU Bin by month
- Likelihood of penalty depends on MW electing firm vs available gas
- NYISO proposal allows unit to profit from firm election w/o primary firm transport (for Bins 2-7)
- Current tariff provides disincentive to rely on capacity release
- See slide 14 for MMU proposal

Effects of NYISO Proposal on Gas-Fired Generators

- The NYISO proposal incents suppliers to elect to be in the firm CARC and rely on capacity release or pooling agreements with contingent service.
- This will lead to:
 - Lower capacity prices
 - Less capacity electing to be firm oil
 - Diminished incentives to support reliability in a worse-than-average winter
 - Distorted investment incentives (from under-valuing firm fuel)
- Requiring generators to elect to be firm (or non-firm) 16 months before the winter:
 - Raises the cost of firm gas-fired generation
 - Increases risk that the cost of firm gas will exceed firm fuel CARC premium
 - These additional costs will likely be passed on to consumers

Reliance on FERC Enforcement

- NYISO's proposal would require gas-fired generators in the firm fuel CARC to:
 - A. Contract for firm by December 1
 - B. Inform NYISO if such agreements have not been obtained by December 1
- NYISO would rely on FERC enforcement to address the effects of the poor incentives described above because:
 - Failing to do A or B would violate NYISO's tariff
 - Failing to do B would constitute a violation of 18 CFR 35.41(b) on communications
- Example 1: Unit elects firm but does not obtain primary firm or inform NYISO
 - MMU refers tariff violation and provision of false/misleading information
 - Likelihood of FERC action uncertain. The likelihood is increased by the violation of 18 CFR 35.41(b) but reduced by not informing NYISO and avoiding discovery.
- Example 2: Unit elects firm, does not obtain primary firm, informs NYISO
 - Generator "tries" to contract for firm but is "unable" to find it at a "reasonable" cost
 - Primary firm contracting opportunities dry up by November and informs NYISO
 - MMU refers tariff violation
 - Low likelihood of FERC action without clear evidence of bad faith

Conclusions and Recommendations

Conclusions & Recommendations

- The current tariff provides strong financial incentives for firm gas CARC units to contract for primary firm service – substantially weakened under NYISO proposal and encourages generators to make risky elections
 - MMU recommends rejecting NYISO's proposal in its current form
- The MMU's concerns could be addressed by the following changes:
 - 1) For units that notify NYISO of failure to contract by Dec. 1:
 - ✓ Apply a Firm Fuel Sanction Multiplier of 1.5 in any Winter Performance Month with a lack of fuel event (consistent with NYISO's proposal).
 - ✓ In addition, apply a Firm Fuel Sanction Multiplier of 1.0 in any other Winter Performance Month.

This would address the incentive to make a risky election
 - 2) For units that do not notify NYISO of failure to contract and are discovered:
 - ✓ Same financial sanction as in (1), but also referred to FERC enforcement for tariff violation and violation of 18 CFR 35.41(b)
 - 3) Push back election deadline from August 1 of the previous year to March 1
 - ✓ Reduces cost uncertainty for generators when they make their election