

Landfill Gas Resources for Tailored Availability Metric

Emily Conway

Associate Market Design Specialist

Management Committee

December 16, 2020

Agenda

- **Background**
- **Landfill Gas Resources for TAM**
- **MST 5.12 for Intermittent Power Resources**
- **Additional MST 5.12 Changes**
- **Next Steps**
- **Appendix**

Background

Background

- **For Intermittent Power Resources, the stakeholder discussion for the Tailored Availability Metric (TAM) project presented analysis of the impact the TAM changes would have on wind and solar Resources when weighting the hourly production data within the respective 6 and 8-hour PLWs**
 - The TAM rules were accepted by FERC on September 3, 2020 and will become effective March 1, 2021 for implementation beginning with the Day-Ahead Market run for the operating day May 1, 2021
- **As accepted by FERC section 5.12.6.2 (UCAP Calculations) refers to “Intermittent Power Resources” (IPRs) when referencing this new weighting methodology for determining the UCAP value of these resources.**
 - An IPR by definition of the tariff includes wind, solar, and landfill gas Resources,
- **However, in section 5.12.14.3 of the Services Tariff the Tariff language provides that the NYISO will “re-evaluate the hourly weighting factors percentages during the Peak Load Window for wind and solar Resources.”**

Applying the Peak Load Weighting Factors for Landfill Gas Resources

Landfill Gas Resources

- **Although not directly discussed during the TAM presentations this spring, the tariff language that applies the peak load weighting factors accepted by FERC is applicable to all Intermittent Power Resources**
 - Today, landfill gas Resources are treated similarly to wind and solar and it is appropriate to continue to treat these resources consistently
- **The NYISO will apply the TAM rules to landfill gas Resources, as well as wind and solar Resources (See Appendix for details)**

MST 5.12

MST 5.12

- The NYISO wants to clarify in section 5.12.14.3 that the NYISO will re-evaluate the hourly weighting factors percentages during the Peak Load Window for Intermittent Power Resources
 - The current language reflects this language for wind and solar Resources only

Additional MST 5.12 Change

MST 5.12

- **Language in Section 5.12.6.2 (UCAP Calculations) has been clarified to reflect that the TAM Rules apply Generators, System Resources, Energy Limited Resources, and municipally owned generation**
 - No changes were made to SCR performance factor calculations under the TAM project, which are conducted using DRIS and in accordance with ISO Procedures
 - Performance is calculating using the most SCR performance data from the most recent like Capability Period and the immediately preceding Capability Period

Next Steps

Next Steps

- **January 2021:**
 - Seek Board of Directors approval
 - File tariff revisions with FERC

Appendix

Intermittent Power Resources Proposal under TAM

- **The NYISO is proposing a reoccurring study every 4 years, that would result in hourly capacity value weightings across the Peak Load Window**
 - Weightings would be applied to the respective hourly production data
 - The study would run concurrently with the study for Expanding Capacity Eligibility
 - Each study could reset the top 4 hours within the Peak Load Window and percentages based on the percentages for Expanding Capacity Eligibility
- **The duration of the Peak Load Window is dependent on resources with duration limitations**
 - When the system reaches 1000 MW of duration limited resources and the window shifts from 6 hours to 8 hours, the PLW for Intermittent Power Resources will also shift

Intermittent Power Resources Proposal under TAM

- **At this time, the NYISO is proposing the following weightings across the 8-hour and 6-hour PLW**
- **For a 6-hour PLW, the top 4 hours will receive a 75% weighting**
 - Weightings of the shoulder 2 hours will be equally weighted at 12.5% each
- **For an 8-hour PLW, the top 4 hours will receive a 70% weighting**
 - Weightings of the shoulder hours will be 3-tiered
 - In other words, the next top 2 hours will be weighted 20%, and the last 2 hours will be weighted 10%

Intermittent Power Resources Proposal under TAM

- **Summer and Winter Capability Period months will receive the following set of weightings as shown in Table 1**
 - For the Winter PLW, the top 4 hours will remain consistent with methodology used today, and the top load hours from Expanding Capacity Eligibility (HB 16 – HB 19)
- **Under this construct, Intermittent Power Resources will still have the opportunity to receive 100% performance factors if they perform in all hours of the Peak Load Window**

Table 1

HB	Summer Peak Load Window		Winter Peak Load Window	
	6 Hour	8 Hour	6 Hour	8 Hour
12		5.0%		
13	12.5%	10.0%		
14	18.75%	17.5%		5.00%
15	18.75%	17.5%		5.00%
16	18.75%	17.5%	18.75%	17.50%
17	18.75%	17.5%	18.75%	17.50%
18	12.5%	10.0%	18.75%	17.50%
19		5.0%	18.75%	17.50%
20			12.5%	10.0%
21			12.5%	10.0%

Top 4 Hours	75%	70%	75%	70%
-------------	-----	-----	-----	-----

Feedback/Questions?

The NYISO will consider input received during today's Working Group meeting and further input sent in writing to deckels@nyiso.com or econway@nyiso.com

Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system

