RPLAN enhancements for solar plants effective 04/16/2021

1. High Level Changes in Renewables Plan (RPLAN)

Beginning on April 16, 2021, Market Participants with solar plants will be able to submit their medium term and long term future availability data for power generation. Prior to this date, this functionality was available only for wind plants. The submittal of future availability data for solar plants will be required with the effective date specified in ISO-NE Tariff.

The following rules describe the new functionality:

- The new functionality to submit future availability data is available via web services only. There is no user interface similar to eMarket. Access to RPLAN web services may be obtained via CAMS.
- The solar generation future availability data is submitted in form of two schedules: Hourly Solar Plant Future Availability data (Hourly SPFA) and Daily Solar Plant Future Availability data (Daily SPFA). Participants can use web services to query the names of schedules, as well as information about the solar assets they own. For details on XML submit and query requests, refer to "Wind and Solar Data Exchange Specification" published on ISO-NE website.
- The Hourly SPFA data is submitted every hour and contains date-time/MW value pairs for the hours starting with the next hour, and ending with 48 hours from the next hour (48 data points).

  Example:

  On 03/05/2021 at 14:00, the Hourly SPFA data is submitted with the first target hour of 15:00, and with 48 elements in the following format:

```
<Power>
    <time>2021-03-05T15:00:00-05:00</time>
    <value>30.00</value>
</Power>
. . .
. . .
<Power>
    <time>2021-03-07T14:00:00-05:00</time>
    <value>28.00</value>
</Power>
```

- The Daily SPFA data is submitted once a day, no later than at 10:00. This schedule contains date-time/MW value pairs for the hours starting at 11:00 two days from the current day, and ending with 7 days from the current day (120 data points).

Example:

On 03/05/2021 at 10:00, the Daily SPFA is submitted with the first target hour of 03/07/2021 11:00, and with 120 elements in the following format:

```
<Power>
    <time>2021-03-07T11:00:00-05:00</time>
    <value>30.00</value>
</Power>
. . .
. . .
<Power>
    <time>2021-03-12T10:00:00-05:00</time>
    <value>28.00</value>
</Power>
```

- The verification process uses the Nameplate MW value specified in CAMS. Submittals with values higher than Nameplate MW will be rejected. The system will also verify the number of data points and begin/end dates in submitted requests. For invalid submittals, the system will return an error message explaining the problem. For valid submittals, the system will return a transaction ID, for instance:

```
<SubmitStatusResponse>
    <success>
        <transactionId>869457a3-680b-4ac4-b606-8b1ac09be147</transactionId>
    </success>
</SubmitStatusResponse>
```

2. Migration Timeline

The new functionality will be available in

- Sandbox environment starting 03/16/2021
- Production environment starting 04/16/2021

3. RPLAN User Documentation

The following documents are available on the ISO-NE website to help creating client software as per the new specification, and testing of web services in Sandbox.

- RPLAN Data Exchange Specification V12.2
- RPLAN WSDL files
- RPLAN Client Sample Programs