

## Meeting Minutes

### **New York State Reliability Council – Extreme Weather Working Group (EWWG) Meeting # 5 – April 28, 2023 Zoom**

#### **1. Draft Meeting Minutes for Meeting # 4 – 4/11/2023**

- Minutes were updated to distinguish between Roger Clayton and Roger Caiazza
- Minutes were updated to add numbering to the “Action Items” section

#### **2. Revised Table 1**

- Events have been sorted into the “Resource Adequacy” and “Resiliency Planning” tabs of the spreadsheet; events in the “Resource Adequacy” tab should be captured in existing studies such as the IRM Study, while events in the “Resiliency Planning” tab likely need to be handled through different means
- Stakeholders suggested that the IRM Study could include extreme weather scenario sensitivities, such as adding a shape or shapes that have more significant wind lulls than a “normal” shape; NYISO noted that synthetic shapes could very well be an option in order to consider probabilistic extreme weather risks that do not necessarily appear in a five year dataset
- Some stakeholders noted that it wouldn’t be particularly easy to perform correlated outage analysis when it comes to behind the meter solar given how behind the meter solar is treated in the IRM Study model; however, other stakeholders somewhat rebutted this by pointing out that the NYISO has behind the meter solar estimates that are by all accounts quite good, and that the IRM Study model could be altered appropriately
- Stakeholders noted that extreme cold events should consider loss of fuel as an affected element of the system
- Daniel Kirk – Davidoff is continuing work on correlated renewable drop offs

#### **3. NYISO Offshore Wind Data 2000 – 2021 from ICAP WG Meeting**

- Roger Clayton reviewed his analysis:
  - Broke the 2000 – 2021 dataset into five periods, starting with 2000; this resulted in the last two years of the dataset being excluded
  - For each five year period, wind lull events lasting 24, 48, and 72 hours were identified

- Analysis seems to suggest that not one of the five year periods can be considered representative of the whole dataset; it may take a much larger dataset, perhaps 70 years of data, in order to possibly find a representative five year period
  - Next step is to break the dataset into five periods, starting with 2021; this will result in the first two years of the dataset being excluded
- Jason Frasier reported on ongoing NYISO efforts:
    - Working with consultant on creating land – based wind and solar datasets that are correlated with the off – shore wind dataset; this effort is expected to be completed in the next three to four months
    - Stakeholders expressed interest in the NYISO doing more than just making the datasets available; perhaps providing a dashboard and tools to easily analyze the data; Jason indicated that there is nothing planned beyond posting the datasets, and that stakeholders can bring up their requests in the appropriate NYISO forums

### **3.1 Finalize Write – up**

- Roger Clayton will add an item #13 regarding his latest analysis to the preliminary findings document
- NYSRC Executive Committee mentioned a couple of times that the EWWG should consider putting preliminary findings into Whitepaper format
- Curt Dahl will make a first effort at putting the preliminary findings document into Whitepaper format

### **3.2 Resource Adequacy / Transmission Security Modelling**

- Keith Burrell referenced the nameplate percentages used for different renewables in NYISO transmission security analysis; examples included 5 % of total nameplate for land – based wind and 10 % of total nameplate for off – shore wind
- There was a stakeholder question as to whether transmission security fits into the “Resource Adequacy” tab or the “Resiliency Planning” tab of the latest Table 1; there was a consensus that transmission security falls under more immediate “Resource Adequacy” needs as opposed to longer term “Resiliency Planning”

### **3.3 Potential Reliability Rules**

- There was a suggestion that the sudden loss of large amounts of renewable generation could be introduced as extreme contingencies that must be designed for; this would be in the sense of a loss of “fuel” event as opposed to an electrical fault
- Keith Burrell confirmed that the sudden loss of large amounts of renewable generation as a loss of “fuel” event is not something currently considered, and that such an event could very well become a major design consideration

#### **4. Other Business**

- No other business suggested

#### **5. Action Items**

##### **5.1 NYISO Offshore Wind Data 2000 – 2021 from ICAP WG Meeting**

- Roger Clayton will break the 2000 – 2021 NYISO OSW dataset into five periods, starting with 2021, as opposed to starting with 2000; this will result in the first two years of the dataset being excluded as opposed to the last two years of the dataset being excluded

##### **5.2 EWWG Preliminary Findings Write – Up**

- Roger Clayton will add an item #13 regarding his latest analysis to the preliminary findings document
- Curt Dah will make a first effort at putting the preliminary findings document into Whitepaper format