

## Potential Proposal Interferences

### 1) Customer Interferences

- a) AEG is proposing about 8,300 kW (~7,100 customers) and Energy Hub is proposing about 3,800 kW (approx. 3,800 customers). They are targeting similar residential and small business customers. Anbaric is also targeting similar customers so Anbaric will also compete.
- b) Both AEG and Energy Hub are targeting Thermostat controls on room AC units and central AC units and Residential pool pump controls.
- c) Both AEG and Energy Hub are targeting all three Areas on the South Fork. AEG stated that they will distribute the resources by population density. Energy Hub just stated that they will focus on the entirety of the three Areas.
- d) AEG, Anbaric, and Energy Hub will share customers and, therefore, only one of these proposals can be chosen. Because AEG has highest cost benefit, significant market intelligence, and detailed customer acquisition plan, PSEG Long Island prefers AEG in the recommended portfolios.
- e) Conclusions: On March 30, the SC tentatively recommended that AEG100 would be considered the preferred proposal for building portfolio options pending the final rating for Criterion J and response to a clarifying question requesting schedule details.

### 2) Point of Interconnection Interferences

- a) **Montauk Substation: Per S Manassis: Utilizing the existing Montauk station would be**

[REDACTED] **The planned Navy Road station (current year in-service 2018) will be** [REDACTED]

- i) Anbaric 5 MW resource with 13kV step down to 4kV interconnecting at Montauk Substation - [REDACTED]
- ii) AES Montauk 10MW @ 4 hour (5 MW @ 8 hour) Battery with 13kV feeder at Montauk Substation and potential step down to 4kV at additional cost - [REDACTED]
- iii) LIE100 5 MW Battery with 4kV or 13kV dedicated feeder to Montauk Substation
- iv) Halmar 5.6 MW Solar Turbines Taurus 60 with 13 kV connection to Montauk Substation; Halmar offers an additional step up transformer trailer for the purpose of connecting at 23 kV - [REDACTED]
- v) Conclusions: [REDACTED]. **Therefore, it would be possible to connect ANB100, LIE100, and AES100 each at 5 MW to this proposed substation**

**b) East Hampton Substation: There is one distribution connection and one transmission connection slot available at East Hampton. AES, LIE400, and Halmar will potentially compete for it.**

- i) AES East Hampton Battery array is 10 MW, 13.2kV feeder - AES is proposing to use an industrial lot north of the substation, but not on the National Grid lot. So I don't think there is physical interference here.
- ii) LIE400 Battery Storage is 9 MW, 13kV feeder - Proposing to use about 5 acres on National Grid lot. Sharing some of the land with Deepwater owned by National Grid just south of the substation. Potential interference. There is a [REDACTED] option
- iii) Deepwater Wind Farm is 90 MW (33.3 UCAP), 69kV bus - Proposing to use 0.5 acre for interconnecting substation on National Grid lot.
- iv) Halmar Solar Titan 130 is up to 15 MW generating at 13.8 kV and connecting at 69 kV - Halmar is again proposing to be inside the substation. Substation would need adequate room for the trailers. This 69kV connection with step-up transformer trailer may alleviate the competition for the single distribution interconnection slot.
- v) **Conclusions: On April 7 PSEG Long Island concluded that East Hampton can only accommodate one of the following three options:**
  - (1) **Transmission connection: DWW100 33 MW and LIE400 33 MW combination at mini-substation. If DWW100 and LIE400 (33MW option) were combined at a LIPA mini-substation, this combination could be accommodated at cost of \$3m.**
  - (2) **Transmission connection: AES 10MW and LIE400 9MW and Halmar 15 MW in combination stepped up to transmission level. Note: the three proposals may not meet the Appendix B requirements.**
  - (3) **Distribution connection: AES 10 MW or LIE400 9MW or Halmar @ partial load 10 MW**

**c) Buell Substation**

- i) Anbaric "Microgrid" is 10 MW, 13.2 kV feeder - Proposing to use one of two options near East Hampton airport (~2 miles west of Buell sub). **S Marron: Upgrade and additional cost at substation needed for such interconnection.**

**d) Southampton Substation: Need to know the available slots to accommodate the potential interconnections**

- i) AES Southampton Battery array is 10 MW, 13 kV feeder - AES proposes using a lot west of the substation so no physical interference with LIE300.
- ii) LIE300 Battery Storage is 9 MW, 13 kV feeder - LIE proposes using a lot east of the substation so no physical interference with AES array.
- iii) FCE100 Fuel Cell is 9 MW, 69kV t-line - will connect at Southampton, but location is 2.6 miles north of substation. No physical interference.

**e) Deerfield Substation**

- i) Anbaric "Microgrid" is 10 MW, 13.2 kV feeder - Proposing to use one of two options near Southampton covered landfill (1.2 miles west of Deerfield sub).
- ii) LIE300 Battery Storage is 9 MW, 13 kV feeder - LIE proposes using a lot 0.6 miles south of Deerfield substation so no physical interference with Anbaric.