

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
BEFORE THE ENERGY FACILITIES SITING BOARD

IN RE: INVENERGY THERMAL DEVELOPMENT  
APPLICATION TO CONSTRUCT AND OPERATE  
THE CLEAR RIVER ENERGY CENTER

DOCKET NO. SB 2015-06

**OFFICE OF ENERGY RESOURCES'**  
**SECOND SET OF DATA REQUESTS DIRECTED TO INVENERGY**

- 2-1 Please provide the following information that was derived from the AURORAxmp model used to support Invenergy's claimed greenhouse gas impacts ascribable to the operation of the Clear River Energy Center ("CREC"). Provide all information in electronic spreadsheet format with all cell formats and cell references intact.
- (a) Provide the fuel use by type (including but not limited to natural gas, coal, distillate fuel oil, kerosene, jet fuel, residual fuel oil), for each year of the forecast, with and without CREC. The data should cover the same years for which Invenergy provided carbon dioxide emissions results, *i.e.*, from 2019 through 2025. If available, provide the results by control area (ISO-NE, NYISO), or otherwise in the most granular aggregation possible.
  - (b) If the fuel use data requested in (a) is not available for each year from 2019 through 2025, please explain why.
  - (c) For each technology type listed below, provide the annual MWh of generation with and without CREC, for ISO-NE and NYISO.
    - (1) Combined cycle plants
    - (2) Combustion turbines
    - (3) Oil-fired steam plants
    - (4) Coal-fired plants
    - (5) Nuclear
    - (6) Wind
    - (7) Hydro (excluding pumped storage)
    - (8) Solar
    - (9) Imports
    - (10) Biomass, landfill gas
    - (11) Other
  - (d) Provide the emissions of carbon dioxide for each control area or RTO across the study region, other than ISO-NE and NYISO, for each year of the forecast, with and without CREC.
  - (e) Provide the total annual generation (MWh) for the Rhode Island zone
- 2-2 Were the Renewable Energy Standards (RES), Renewable Portfolio Standards (RPS), and similar clean energy targets applicable to each state within the model footprint reflected in the resource buildout of the AURORAxmp model? Please explain how the quantity and type of wind, solar, and other renewable resources added over the forecast period was determined within ISO-NE, NYISO, and the rest of the model footprint.

- 2-3 Invenergy's response to OER's data request 1-2(e), provided on a worksheet titled "Supply-Demand," indicates that "Demand Side Resources" and "Imports/Exports" decrease in some years over the forecast, and increase in other years. Please explain how such increases and decreases in these two supply types were determined.
- 2-4 Invenergy's response to CLF DR 2-5(c) provided the number of megawatt-hours of energy that the plant would sell into the ISO-NE market for the first three years of operation for the 1x1 configuration from the January 2016 dispatch modeling. Please provide updated energy sales results for the technology configuration that was used in the dispatch model discussed in the pre-filed testimony of Ryan Hardy in this docket (at p. 11-13.)
- 2-5 In Invenergy's response to OER's First Set of Data Requests, DR 1-2 (d) through (g), most of the AURORAxmp model input data and results were provided only for years 2019 through 2022. The carbon dioxide emissions data for ISO-NE and NYISO, however, was provided for years 2019 through 2025. Please provide data for years 2023 through 2025 for all of the same information requested in DR 1-2 (d) through (g). If this information is not available, please explain why, and explain how carbon dioxide emissions were modeled for 2023 through 2025 if the model did not extend through 2025.

OFFICE OF ENERGY RESOURCES  
By its Attorney,



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Dated: August 1, 2016

CERTIFICATE OF SERVICE

I certify that the original and ten copies of this Data Request were sent to the Energy Facility Siting Board, by regular U.S. mail. In addition, PDF copies of the Data Request were served electronically on the entire service list of this Docket. I certify that all of the foregoing was done on August 1, 2016.



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