

Article VII Application
Canisteo Wind Transmission Facility
Case No. 19-T-__

Exhibit 2
Location of Facilities

Invenergy

EXHIBIT 2 - LOCATION OF FACILITIES

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EXHIBIT 2 LOCATION OF FACILITIES

This Exhibit addresses the requirements of 16 NYCRR § 86.3.

2.1 General Description of Facility Location

Canisteo Wind Energy LLC (Canisteo Wind or the Applicant) proposes to construct, operate, and maintain a facility to transmit power from the proposed 290.7-megawatt (MW) Canisteo Wind Farm (see Siting Board Case Number 16-F-0205) to the regional power grid (hereinafter the “Transmission Facility”). The Canisteo Wind Farm is a proposed wind energy facility in the Towns of Cameron, Canisteo, Greenwood, Jasper, Troupsburg, and West Union in Steuben County, New York. The Transmission Facility consists of a proposed 34.5/115 kilovolt (kV) collection substation¹ (“Collection Substation”) in the Town of Jasper, Steuben County, a 115-kV electric transmission line, and a proposed 115 kV point of interconnection (POI) at NYSEG’s Bennett substation (“POI Switchyard”) along State Route (SR) 36 in the Town of Hornellsville, Steuben County, New York. The dual circuit electric transmission cable will run approximately 15 miles from the proposed Collection Substation to the POI Switchyard.

The proposed transmission line is approximately 15 miles of new overhead 115 kV transmission line and will pass through the Towns of Jasper, Canisteo, and Hornellsville, and the Village of Canisteo in Steuben County, New York. The line begins at the proposed 34.5/115 kV Canisteo Wind Farm collection substation in the Town of Jasper, New York, located approximately 0.5 mile west of the intersection of County Route (CR) 63 and North Road. The transmission line travels from the collection substation in a generally north/northwest direction, and it will span approximately 3.3 miles through the Town of Jasper, 9 miles through the Town of Canisteo, and 2.3 miles through the Town of Hornellsville. The transmission line will be located on private property, with easement rights that have been obtained by the Applicant from the landowners. The transmission line will require the installation of steel monopoles, wood H-frame structures, and wood 3-pole structures at 106 locations along the route. It will terminate at the POI Switchyard located on property owned by New York State Electric and Gas Corporation (NYSEG), in the existing Bennett Substation.

The existing Bennett Substation located along SR 36 in the Town of Hornellsville requires the addition of a 115 kV breaker, ancillary equipment, and associated metering for interconnection (see Preliminary Design Drawings in Exhibit 5). The POI Switchyard site is located within an area in which transmission facilities are a permitted use. The POI Switchyard site is adjacent to SR 36 and vacant land.

Land at the north end of the transmission line, at the POI Switchyard, is currently owned by NYSEG. As mentioned above, the transmission line will be located on leased, private land. The Collection Substation will be built on land to be owned by the Applicant which has already been secured with a purchase option.

¹ The collection substation will step up electrical voltage generated by the turbines from 34.5 kV to 115 kV. The “low side” of the collection substation (i.e., 34.5 kV) is considered part of the wind energy generating facility and falls under the jurisdiction of Article 10 of the New York Public Service Law (PSL), while the “high side” of the collection substation (i.e., 115 kV) falls under the jurisdiction of Article VII of the PSL.

2.2 Location Maps

Section 86.3(a)(1) of 16 NYCRR requires the Applicant to submit detailed maps, drawings and explanations showing the right-of-way (ROW) for each proposed facility. The general location of the Transmission Facility ROW is shown on Figure 2-1. Figure 2-1 shows the Transmission Facility on United States Geological Survey (USGS) topographic maps at a scale of 1:24,000. The map includes at least 5 miles on either side of the Transmission Facility in accordance with 16 NYCRR § 86.3(a)(1)(i). Figure 2-1 shows the areas where construction would necessitate permanent clearing or other changes to vegetation or man-made structures, and any known geologic, historical or scenic area, park, or untouched wilderness on or within 3 miles of the Transmission Facility. Archaeological site locations are sensitive sites and, as such, are not shown on the figures. See Exhibit 4 for a discussion of avoidance to archaeological features. Areas where the construction of the proposed Transmission Facility would necessitate minor grading are shown on the Preliminary Design Drawings included in Exhibit 5.

Section 86.3(a)(2) of 16 NYCRR requires that a map be provided showing the relationship of the proposed facility to the applicant's overall system. As required in 16 NYCRR § 86.3(a)(2)(i)–(iv), the 1:250,000 map provided in Figure 2-2 illustrates the relationship of the Transmission Facility to the Applicant's generating facility with respect to: (i) the location, length, and capacity of the proposed Transmission Facility, and its relationship to any existing facility related to the proposed Facility; (ii) the location and function of any structure to be built on, or adjacent to, the ROW; (iii) the location and designation of each point of connection between any existing and proposed facility; and (iv) nearby, crossing or connecting rights-of-way or facilities of other utilities. Preliminary drawings depicting the location and design of the transmission line, Collection Substation, and POI Switchyard, in addition to the interconnection at the existing Bennett substation can be found in Exhibit 5.

2.3 Aerial Photographs

As required by 16 NYCRR § 86.3(b)(1), aerial photographs of the proposed ROW, substation properties, and adjacent areas showing at least 1,200 feet on each side of the proposed ROW are included as Figure 2-3. The photographs are of sufficient scale and detail to enable discrimination and identification of all natural and cultural features and include the following specific overlays: (i) a clear depiction of the ROW will be located; (ii) the location of areas of clearing required to construct the proposed Facility; (iii) the location of the Facility and associated access and maintenance roads; and (iii) the location of the Transmission Facility within the ROW. Construction of the Facility will not require any changes to topography or man-made structures. No separate access roads or maintenance routes are required for the POI Switchyard which is located on existing NYSEG property that includes an existing access road. The aerial photography used is presented at 1:8,000 scale and was obtained from Thew Associates PE-LS, PLLC. Photos were taken by Kucera International, Inc. and were taken on April 22, 2018. This same aerial photography also provides the base mapping for many figures associated with Exhibit 4. In places where the aerial photography from Thew Associates did not cover the full extent of Figure 2-3, 2016 aerial imagery from the New York State Office of Information Technology Services was used to fill in small gaps. Photographs were taken between March 27, 2016 and April 14, 2016.

Since the aerial photographs were taken, field review indicates that there have been no notable changes in the vicinity of the Transmission Facility.