

Wind Power GeoPlanner™

GPS Study

Eight Point Wind Energy Center



Prepared on Behalf of
Eight Point Wind, LLC

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COMSEARCH
A CommScope Company

Table of Contents

1. Introduction	- 1 -
2. Project Overview	- 1 -
3. Line-of-Sight Analysis	- 2 -
4. Impact Assessment	- 5 -
5. Contact	- 5 -

1. Introduction

This report examines whether or not there exists a radio line-of-sight (RLOS) between existing GPS antennas and the proposed wind turbines in Eight Point Wind Energy Center, New York. The GPS antennas are registered with the NOAA CORS database and are used for surveying purposes.

2. Project Overview

Project Information

Name: Eight Point Wind Energy Center

County: Steuben

State: New York

Blade Diameter: 137 meters

Hub Height: 110 meters

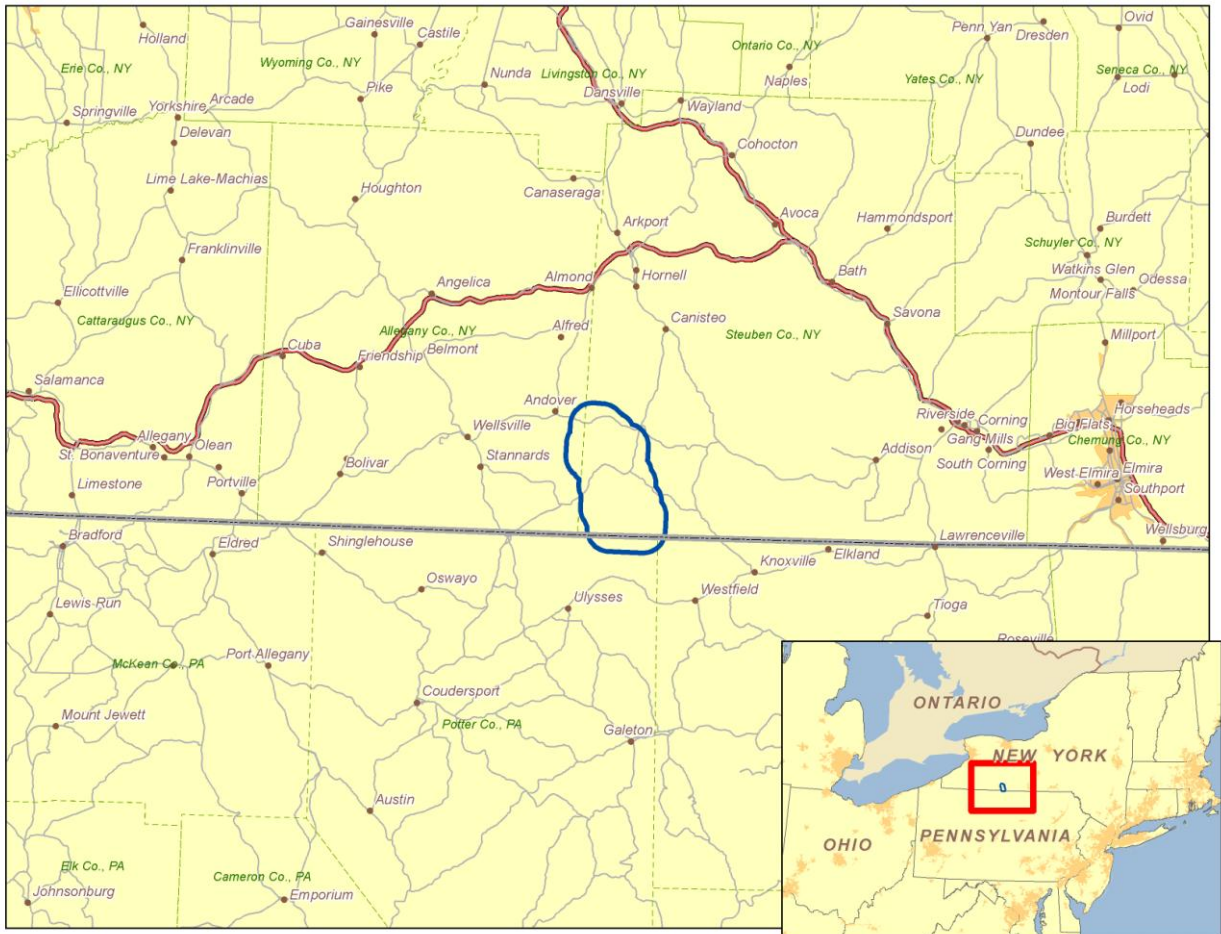


Figure 1: Area of Interest

3. Line-of-Sight Analysis

Methodology

The locations of the project area of interest, closest three GPS towers, and proposed wind turbines are shown in Figure 2 below.

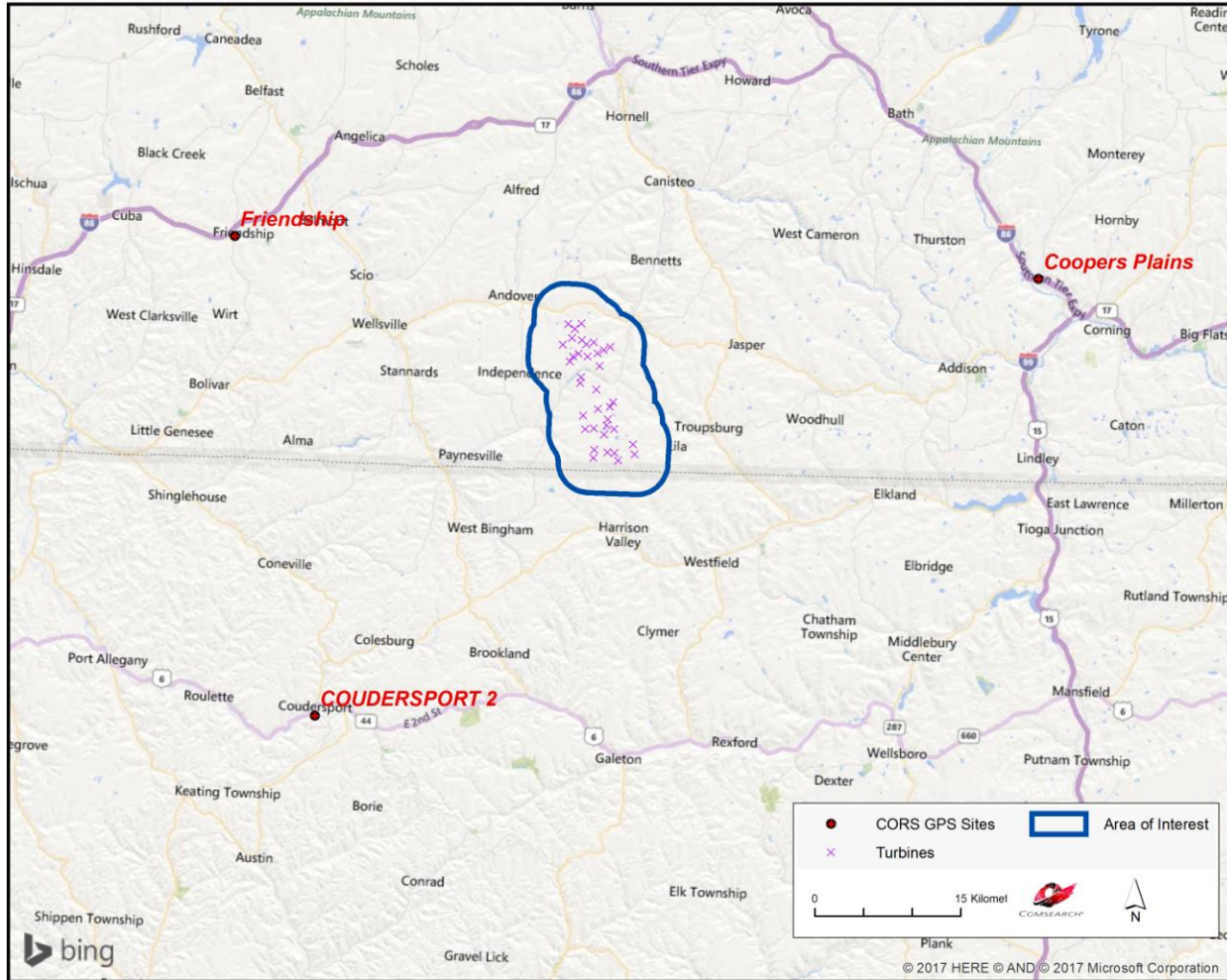


Figure 2: Closest three GPS Antennas and Proposed Turbines in Project Area of Interest

Based on the information provided, Comsearch generated a cross-sectional elevation profile in order to determine if there would be any terrain blockage between the antennas in question and the proposed wind turbines. The profiles can be seen in Figures 3 - 5 which shows a terrain obstructed path between the closest three GPS antennas and the closest wind turbine to each.

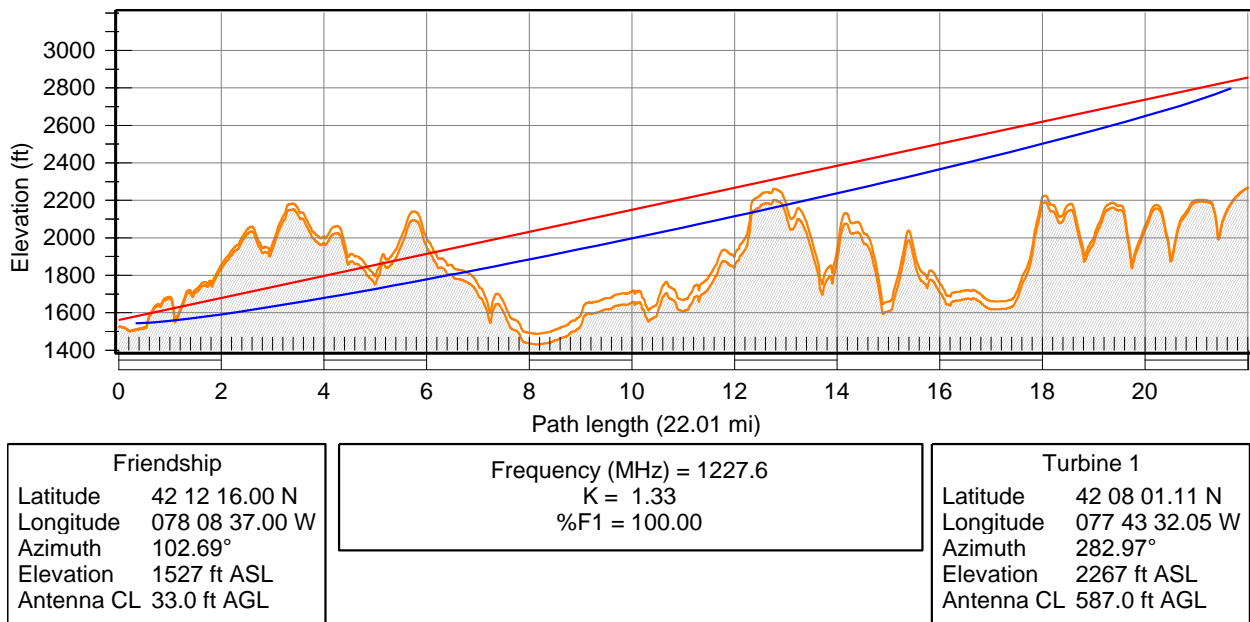


Figure 3: Path Profile between GPS Friendship Antenna and the Closest Wind Turbine (1)

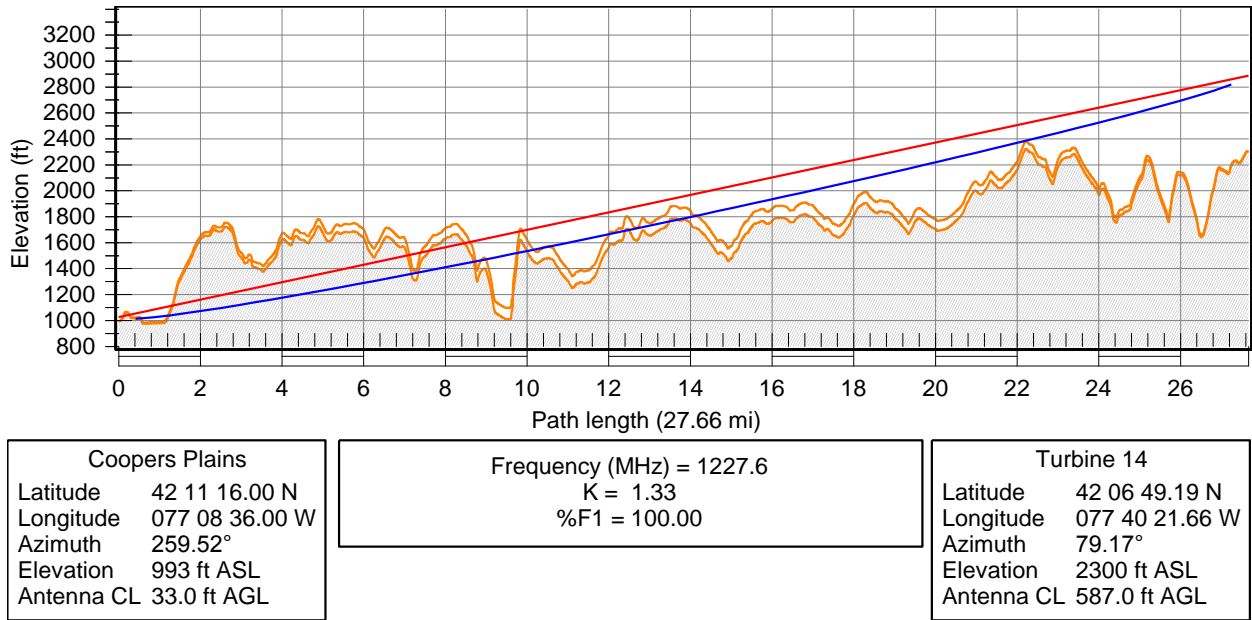


Figure 4: Path Profile between GPS Coopers Plains Antenna and the Closest Wind Turbine (14)

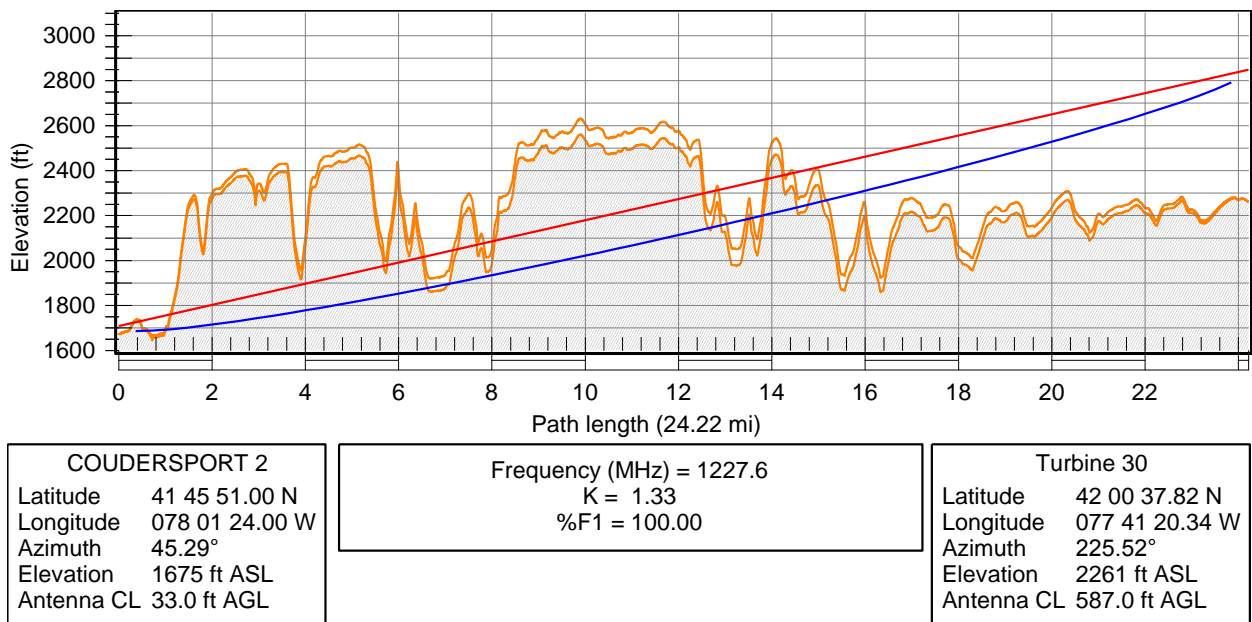


Figure 5: Path Profile between GPS COUDERSPORT 2 Antenna and the Closest Wind Turbine (30)

4. Impact Assessment

Using a digital terrain model, Comsearch generated a path profile between the closest three CORS registered GPS towers and the proposed wind turbines and determined that there currently exists terrain blockage. These antennas generally service equipment in a range of ten miles. Since the Eight Point Wind Energy Facility is more than ten miles from these sites, and all profiles showed terrain blockage, it can be determined that the proposed turbines are sited outside the service range of these antennas and will not cause interference to their operations.

5. Contact

For questions or information regarding the GPS Study, please contact:

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