Highland Corporate Park – Woonsocket, RI

Feasibility & Wind Assessment 2008

In March 2008, EAPC Wind and PARE Corporation provided The Economic Foundation of Rhode Island a preliminary feasibility study to determine if a wind project located within the corporate park would be feasible. The results from the study provided The Foundation with key data necessary to make educated decisions about the viability of a wind project according to their needs and goals. The feasibility study included a fatal flaw analysis, wind resource assessment, zoning and permitting reviews, and a financial model.

EAPC Wind performed fatal flaw study using GIS software to review the site for potential fatal flaws and to establish a buildable area where wind turbines could be placed. The study included reviewing wetlands, nearby airports, microwave interference, transportation/ constructability constraints, environmentally sensitive areas, zoning regulations, and other exclusion areas.

The second part of the study was a wind resource assessment. To match the wind turbine size to the local businesses, EAPC Wind and The Foundation gathered actual electricity consumption data for those businesses interested in participating. EAPC Wind modeled the predicted wind resource and potential energy production figures for three different wind turbine models, at three different locations within the park.

At the completion of the initial feasibility study, EAPC Wind applied for an FAA determination to see if several wind turbine locations throughout the park would affect air traffic, receiving "No Hazard" findings for each site in July 2008.

Finally, EAPC Wind ran an economic model tailored to The Foundation's needs and goals.

Client:

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Services Rendered:

- Feasibility
- Wind Assessment
- Economic Analysis

Key Achievements:

- Foundation was able to make informed decisions about potential project
- Reviewed potential fatal flaws and established buildable area for wind turbines
- Utilized actual electricity consumption data for wind turbine models
- Provided project economics