



Lyons Falls, NY- Burrows Paper Corporation *SODAR Profiler 2009*

In June of 2009, EAPC Wind installed a SODAR (Sonic Distance and Ranging) profiler on property owned by Burrows Paper, a New York-based paper manufacturing company.

A 60 meter meteorological mast was already in existence on the site, but it was desirable for the client to have wind speed data at a height of 80 meters which is the intended wind turbine hub height. The purpose of measuring wind speeds at hub height is to reduce uncertainty.

A SODAR profiler uses sound to measure wind speeds to a height of up to 120 meters. SODAR profiler's are ground based and powered by on-board solar panels, thereby requiring minimal effort for installation as compared to a standard meteorological tower.

The data from the SODAR profiled was collected for a period of 12 weeks and data was transmitted via a satellite modem. At the end of the monitoring period, the data was validated and calibrated with the data from the meteorological mast. This resulting data was then be used to update the energy production estimates.



Client:

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Services Rendered:

- Installation of a SODAR profiler
- Monitoring and validation of SODAR wind data
- Update of energy production estimate based on SODAR data

Key Achievements:

- Successfully installed, commissioned, and modeled data from a SODAR profiler