

## Lighthouse Wind by the Numbers

Apex Clean Energy of Charlottesville, Virginia, is proposing to build up to 70 industrial wind turbines, each of which would be over 600 feet tall, along 12 miles of Lake Ontario shoreline in Niagara and Orleans counties. How much electricity will it deliver to Western New York? Below are some estimates based on statistics from other industrial wind projects in NY.

- 201 MEGAWATTS capacity advertised by Apex/Lighthouse Wind. That's a little over **one-half of one percent (0.5 %)** of the existing 38,576 megawatts of NY State installed electrical generation capacity.
- 56 ESTIMATED MEGAWATTS annual average output delivered from Lighthouse Wind to the NY State grid. This number is significantly lower than the advertised output because the wind rarely blows at conditions optimal for generating the advertised output. That would be **one quarter of one percent (0.25 %)** of New York State's average electrical demand of 17,000 megawatts.
- 25 ESTIMATED MEGAWATTS output delivered by Lighthouse Wind during the peak-load months of July and August based on numbers from other NY wind projects. Wind conditions are generally much lower during these months than during the rest of the year. That would be **0.07 percent** of New York State's current summer peak electrical demand of about 35,000 megawatts!!
- 0 MEGAWATTS output delivered to the NY grid by Lighthouse Wind during those hot, steamy, windless summer afternoons when people want their air conditioner and pool filters running based on what other NY projects have produced during similar days.
- 0 MEGAWATTS available from Lighthouse Wind allocated to Niagara and Orleans Counties. Available information indicates that Lighthouse Wind's output will not be used locally. Recent reports have stated that there is no need for additional capacity in Western New York and insufficient transmission lines to transport it elsewhere.
- 0 - The reduction in electric bills in Western New York which would result from construction of Lighthouse Wind. In fact, your electric bill has a special tax to support projects such as Lighthouse Wind.
- 20% - The minimum expected decrease in the value of homes within the project area if Lighthouse Wind is allowed to proceed.

Generally, megawatts are used when talking about energy capacity and megawatt hours are used when talking about energy production. This allows wind corporations to hide the huge disparity between the capacity of the industrial wind turbines and the small amount of that capacity that they are able to produce. This information sheet uses only megawatts for comparison purposes.

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