

## **New GE Turbines will increase power production by 7%**

*The number of lights will be reduced from from 260 to 57*



Cape Wind announced today it will boost annual production of energy generated by the proposed wind farm by 7% by using the new GE 3.6 Megawatt model xl.

Although the maximum output of the turbines is unchanged at 3.6 megawatts, the new model is more productive during

light winds according to a press release from the company. The entire release is reprinted below.

During light wind conditions Cape Wind's annual expected wind power production will now be 1,594,207 megawatt hours, up from 1,489,200

megawatt hours with the previously available model. Readers can see the current wind condition at the project's data tower shown on right by clicking [here](#).

### **12 feet taller, but far less visible at night**

The new wind turbines are eight feet taller than the previous turbines there were proposed. The new height will be 258 feet instead of 246 feet. According to the company this 5% increase in wind turbine height will not appreciably change the visual impact of the project from land which is six and a half miles away at the closest point on Cape Cod.



The company is also proposing a substantial reduction in the number of red aviation lights from 260 to 57 which will substantially reduce the visual impact of the project at night from shore. This updated aviation lighting plan is consistent with the new wind farm lighting guidelines being used by the FAA. As previously mandated by the FAA, each wind turbine had to have two red aviation lights, but under the new plan, only the turbines on the perimeter of the project footprint, and the wind turbines next to the electric service platform, will each have one light on the top of the turbine nacelle.

The Cape Wind Press Release is reprinted below;

#### **CAPE WIND ANNOUNCES TWO PROJECT UPDATES:**

- 1. 1) MORE EFFICIENT TURBINES TO BE USED THAT BOOST POWER PRODUCTION BY 7%**
- 2. THE NUMBER OF LIGHTS TO BE USED WILL BE SUBSTANTIALLY**

## REDUCED

Cape Wind announced today it will boost annual production of clean wind energy by 7% by using the new GE 3.6 Megawatt model xl. Although the maximum output of the turbines is unchanged at 3.6 megawatts, the new model is more productive during light wind conditions. Cape Wind's annual expected wind power production will now be 1,594,207 megawatt hours, up from 1,489,200 megawatt hours.

The new wind turbines are slightly taller than the previous turbines there were proposed. The wind turbine tower height will now be 258 feet, up from 246 feet. The maximum wind turbine blade tip height will now be 440 feet, up from 417 feet. The bottom blade tip height is unchanged, at 75 feet. All dimensions are above the surface of the water. This 5% increase in wind turbine height will not appreciably change the visual impact of the project from land.

Cape Wind also announced today it is proposing a substantial reduction in the number of red aviation lights that will be used. This will reduce the visual impact of the project at night from shore. The number of red aviation lights will be reduced from 260 down to 57, an elimination of 203 lights. This updated aviation lighting plan is consistent with the new wind farm lighting guidelines being used by the FAA. Previously, each wind turbine was planned to have two red aviation lights, under the new plan, only the wind turbines on the perimeter of the project footprint, and the wind turbines next to the electric service platform, will each have one light on the top of the turbine nacelle.

The increase in annual wind power production would also increase Cape Wind's ability to reduce air pollution emissions by offsetting production from regional fossil fueled power plants.

All forms and reports being submitted to Federal and State agencies conducting the ongoing permitting review process of Cape Wind reflect these project updates.