

WIND TURBINE GENERATOR

Public | Renewable Energy | Bayshore Regional Sewerage Authority

Conti collaborated with GE, one of the world’s leading wind turbine manufacturers, on much of the project to assure top quality work.



The Challenge

With their ambitious project, Bayshore Regional Sewerage Authority (BRSA) looked to construct a large 1.5 MW, 60 Hz wind turbine generator as an alternate source of energy. The publically owned wastewater treatment plant treated 16 million gallons of wastewater per day and consumed roughly 7,500,000-kilowatt hours of power per year, highlighting the need for a more cost-efficient method of power generation. The WTG was predicted to significantly reduce the \$1 million spent per year by the BRSA in electricity costs, and its installation would require the erection of all wind turbine machinery.

The Solution

The Conti Group adapted to challenging site logistics to bring the BRSA the energy solutions it needed. A detailed route survey was meticulously performed in advance to ensure that all of the turbine components could be successfully delivered to the site from various manufacturing locations around the country, and a great deal of planning and coordination by the project team was employed to erect the massive WTG in the limited area provided. Conti also collaborated with GE, one of the world’s leading wind turbine manufacturers, on much of the project to assure top quality work.

Scope of Work

ERECTION OF ALL WIND TURBINE COMPONENTS
ELECTRICAL WORK
SYSTEM INTERCONNECTION WITH JCP&L'S GRID

BALANCE OF PLANT CONSTRUCTION
SCADA INTEGRATION

The WTG construction, erection, and installation was a massive undertaking and only the second utility scale wind turbine project to be constructed in New Jersey.

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