

**Fact Sheet**  
**Sims Municipal Recycling (SMR)**  
**Sunset Park Material Recovery Facility (MRF)**  
**Wind Turbine**

Sims Municipal Recycling (SMR) commissioned New York City's first commercial-scale wind turbine to generate electricity for the Sunset Park MRF, which is the central processing plant for all of New York City's curbside recyclables. The 100kW wind turbine is located on the 30<sup>th</sup> Street Pier in Sunset Park, Brooklyn, and takes advantage of the waterfront's naturally windy location.

**Key Facts**

- The wind turbine was manufactured by Northern Power Systems and installed by Aegis Renewable Energy in 2014.
- The wind turbine has a capacity of 100kW. Commercial-scale turbines are considered to be between 25kW and 500kW. All other wind turbines in New York City are residential scale (generally less than 1kW). Industrial-scale turbines, normally used in wind farms, are much larger, ranging from 500kW to 3,000kW.
- The turbine's rotor hub is approximately 120 feet above the ground level; with the blades, the turbine is nearly 160 feet tall.
- The capital cost was approximately \$750,000, and the turbine will pay for itself in about 5 years, depending on wind and electricity costs.
- The permitting process for the turbine began four years ago. Installation of the foundation and erection of the tower and turbine took approximately one month last fall.
- The wind turbine will provide up to 4 percent of the energy consumed by the MRF. Between the wind turbine and the 600kW solar array, the MRF now produces up to 20 percent of its electricity requirement from renewables.

**About Northern Power Systems Corp.**

Founded in 1974, Northern Power Systems designs, manufactures, and sells wind turbines and power technology products, and provides engineering development services and technology licenses for energy applications. Northern Power Systems has installed more than 425 operational turbines worldwide with more than 6 million operational hours and continues plans for aggressive growth and development. With headquarters in Barre, Vermont, and additional offices in Europe, Northern Power Systems provides customers with clean, cost-effective, and reliable renewable energy on a global scale.

**About Aegis Renewable Energy**

Aegis Renewable Energy offers full-service community-scale renewable energy solutions for farms, businesses, non-profits, and municipalities. Wind, Solar and Anaerobic Digesters (cow manure and food waste) are included in Aegis' services, designed to help clients save money and the planet. Aegis Renewable Energy is located in Waitsfield, Vermont, and provides cost-evaluation, permitting, and financing support; installation; and maintenance services throughout New England.