



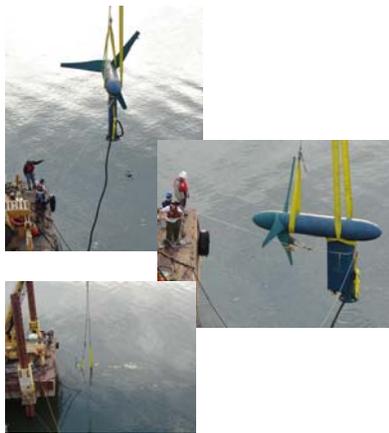
The RITE Project

East River – New York, NY

Verdant Power's Roosevelt Island Tidal Energy (RITE) Project is being operated in New York City's East River. The RITE Project incorporates a tidal Free Flow system comprised of 5-meter turbines, which generate electricity on both the ebb and flow tides of the East River (tidal channel). The project is progressing from an initial demonstration array of six turbines to a full field of units that could generate up to 10 MW of power.

Progress to Date

Verdant Power is in Phase Two of operations at the RITE Project, having successfully tested its prototype turbine in 2002 and gathered the appropriate permits to install a demonstration Free Flow system (six turbines) in the East River. Key to this permitting process was the unprecedented ruling made by the Federal Energy Regulatory Commission (FERC) that allowed Verdant Power to generate and deliver electricity from the system for testing purposes without a FERC license. The decision was titled the "Verdant" ruling.



Verdant Power installed its first Free Flow system in the East River through the RITE Project. To date, the system has delivered 50 MWh of electricity to customers – a world record.

Verdant Power Inc.

Based in New York, NY, Verdant Power Inc. is a world leader in the design and application of marine renewable energy solutions. Verdant Power systems employ underwater turbines to generate renewable and reliable clean energy from the currents of tides, rivers and manmade channels. In addition to designing and commercializing its own technology, Verdant Power also develops projects around the world.

Project Highlights

- World's first array of grid-connected tidal turbines
- 7128 operational hours - world record
- 50 MWh delivered from tides to the NYC grid, with no switching or power quality problems - world record
- Bidirectional tidal operation - world first
- FERC allows Verdant Power to test energy delivery from RITE demo array with its "Verdant" ruling
- Project has received overwhelming community support

The installation of the RITE six-turbine demonstration array, or "six pack," was completed in May of 2007. The system stands as the world's first array of grid-connected tidal turbines. To date, the system has delivered approximately 50 MWh of electricity to nearby New York City businesses, a world record.

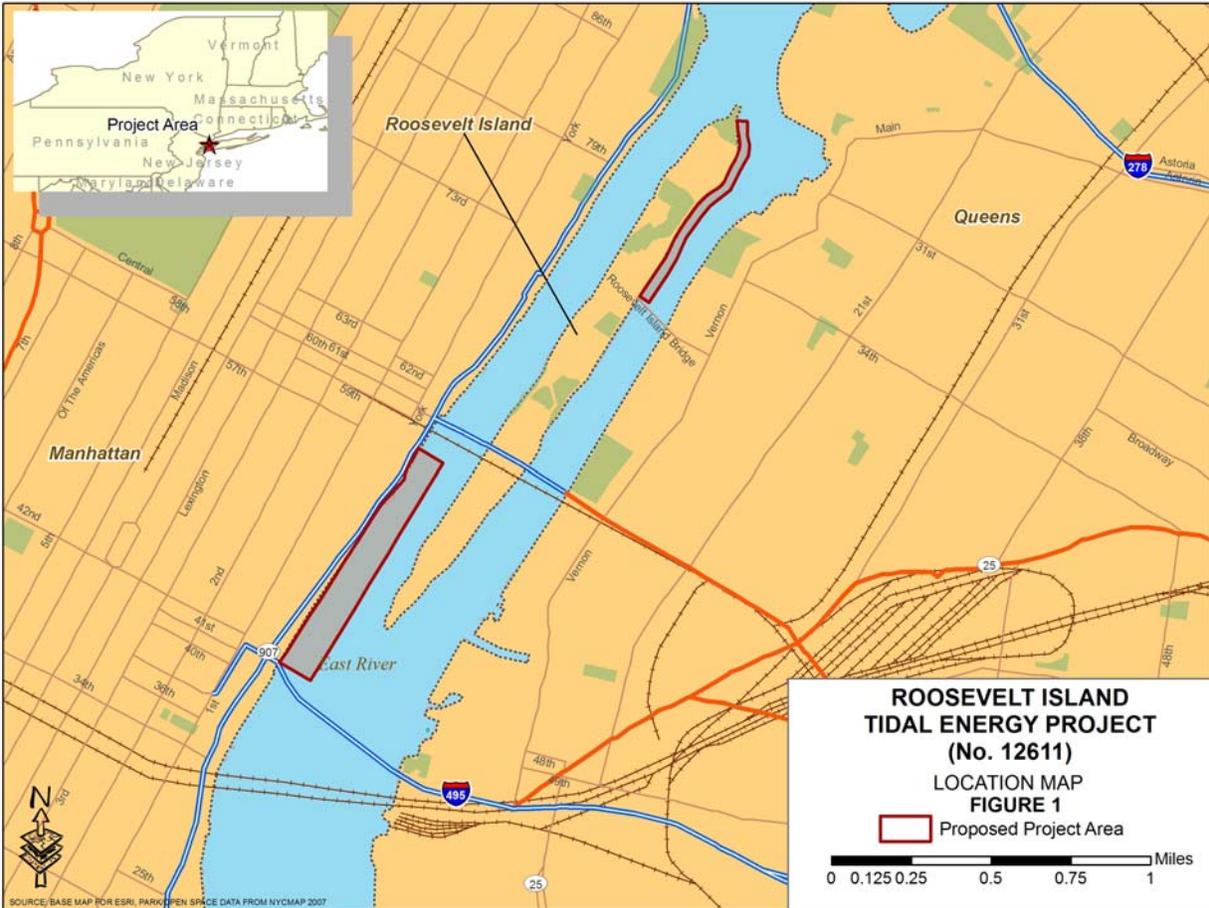
Free Flow System

Verdant Power's Free Flow system employs arrays of three-blade, horizontal-axis turbines that convert the kinetic energy of tidal and river currents into electricity. The systems do not require dams or other major civil works, and do not redirect the natural flow of the water.

Installed fully underwater, Verdant Power systems are silent and invisible from shore. The systems are also modular and scalable, offering a wide range of potential applications across the world – from placement directly within villages and cities, to deep-sea operation at remote ocean sites.



Conducted in the heart of Manhattan, the RITE Project illustrates how Verdant Power systems can provide renewable energy in major urban areas.



Advantages of Verdant Power Systems

- ✓ **Out of Sight and Silent:** Verdant Power systems operate silently and automatically, fully underwater and out of sight from shore. This aspect of the technology reduces the visual disruption and ‘NIMBY’ issues related to other sources of renewable energy, especially wind farms.
- ✓ **Renewable and Predictable Energy:** Water currents provide a predictable, if not constant, source of renewable energy. This creates an advantage for Verdant Power technologies over wind and solar systems, which offer intermittent power more subject to daily changes in weather and blackout scenarios. In fact, Verdant Power anticipates that its river-based systems will achieve 80-90% capacity factors, approximately double those of wind and solar power systems.
- ✓ **Simple and Scalable:** Verdant Power systems are simple and modular in design and can be scaled to produce cost-effective power at a wide variety of sites—from placement directly in population centers to use in deep offshore ocean locales. The simple nature and few moving parts in the systems also decrease operations & maintenance costs. Additionally, the systems do not require dams, impoundments or other major civil works, thus causing minimal public and environmental impact and minimizing upfront capital costs—an aspect that makes them especially suitable for use in developing countries.
- ✓ **Placement in Population Centers:** Because of their minimal public impact and scalable nature, Verdant Power systems can be placed directly in population centers ranging from major urban areas to small villages. This not only provides power where it is needed most, but, by eliminating the need for transmission lines, the technology is also safer, more energy efficient and cost-effective.
- ✓ **Clean Water Integration:** Simply designed and already deployed in water, Verdant Power systems can be integrated with water purification technology. This further enhances the systems’ applicability in developing countries, which report the world’s highest demands for both clean energy and water.