

ROOSEVELT ISLAND TIDAL ENERGY PILOT PROJECT Verdant Power East River, New York City

Kleinschmidt assisted Verdant Power in preparing one of the first applications submitted to the Federal Energy Regulatory Commission (FERC) under a new pilot process that FERC developed for hydrokinetic projects. The proposed pilot project would be for the development, testing, and environmental monitoring of a 1 MW field of 30 kinetic hydropower turbines in the East Channel of the East River in New York City generating with the natural tidal currents of the East River. The project would consist of thirty 5-meter diameter kinetic hydropower axial flow turbine generator units of 35 kW each mounted in groups of three on 10 rows of triframe mounts. It would also include underwater cables from each unit to shore and appurtenant facilities for navigation safety and operation. Kleinschmidt's role in the project has been to assist Verdant in meeting with FERC to discuss project, determining waivers needed from the established FERC licensing process to utilize this new but untested process concept, and preparing numerous license exhibits, including a detailed environmental report and proposed monitoring studies to assess the impacts of this potential project. Verdant is currently working towards a 2010 installation for the project.



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