



THE NEW YORK CITY DEPARTMENT OF CORRECTION

# RIKERS ISLAND ENERGY INFRASTRUCTURE UPGRADE (COGENERATION FACILITY) PROJECT

The New York City Department of Correction is implementing a major energy efficiency and pollution mitigation measure on Rikers Island. We are upgrading our energy infrastructure on Rikers to include a new cogeneration facility. Currently, DOC provides for its energy needs by purchasing electricity from the grid and by producing steam for heat, laundry and the bakery through eight natural-gas-operated boilers. The new cogeneration plant will allow us to significantly reduce our reliance both on the grid and on the aging boilers that we now operate.



The cogeneration facility will consist of two 7 ½ megawatt natural-gas-powered turbines. The turbines will produce electricity, and the waste heat from the process will provide steam to the island's existing steam distribution infrastructure. Using cogeneration, DOC will be able to provide for most of the island's requirements for both electricity and steam. At the same time, it will reduce CO2 emissions by 17 percent and nitrogen oxide (NOX) emissions by 37 percent (approximately 22,000 and 37 tons per year, respectively). Cogeneration will increase the reliability of energy on Rikers Island while reducing energy costs by at least \$6.9 million per year. The project has recently completed the design stage. Construction and equipment installation are slated to begin later this summer with facility startup targeted for 1st quarter of 2014.

The goals of the project are supportive of Mayor Bloomberg's goals for New York City outlined in PlaNYC, and include improving air quality; reducing energy consumption; expanding clean distributed generation; and accelerating reliability improvements to the city's grid.

As part of the permitting process for the new facility, project-related materials are available for review by the public and can be accessed through the links below:

**Project Notice.** This describes the information that has been developed for the project that is available for public review, where it is available, and when questions or comments on the materials can be submitted.

**Project Fact Sheet.** This brochure, written in English and Spanish, provides basic information about the project, including purpose, goals, a description of project elements, and the anticipated project benefits.

**Draft Public Participation Plan.** As part of the Title V Facility Air Permit process, the New York State Department of Environmental Conservation (DEC) requires that a plan be prepared and made available for public review, outlining how the public will be informed about the project and how they can be involved in the permit review process.

**Permit Applications.** These are the materials that have been submitted to DEC and to the Department of Environmental Protection (DEP) for air quality related permits.

- **NYSDEC Title V Permit Application Package**
  - [Application for Title V Permit Modification - Sep 16 2010](#)
  - [Application for Title V Permit Modification-Addt of Emergency Blackstart Generator-3-22-2011](#)
- **NYCDEP Air Permit Application Package**
  - [Air Permit Applications for Cogeneration Plant - Mar 18 2010](#)
  - [Blackstart Engine Submittal to DEP - Nov 2010](#)
  - [Response to Comments on Air Permit Application Package - Feb 1 2011](#)
  - [Response to Comments Package - Feb 28 2011](#)
  - [Revised Air Permit Application Package - Dec 3 2010](#)
  - [Revised Air Permit Application Package - Sep 20 2010](#)

**State Environmental Quality Review Act (SEQRA) Environmental Assessment Form (EAF) documents.**

Because the project requires DEC permits, and because it is being undertaken by DOC, a government agency, review of the project under SEQRA is required. These materials are the environmental documentation and analyses required to determine if the project would be likely to have any significant adverse impacts on the environment.

- [SEQRA Environmental Assessment Form Documents](#)
- [SEQRA EAF Appendices](#)

**Environmental Justice Analysis.** Because the project is seeking a modification to the Rikers Island Title V Facility Air Permit, the project is subject to DEC's Environmental Justice (EJ) Policy. The EJ analysis documents the proposed Riker's Island Energy Upgrade Project's potential to affect any local environmental justice communities.

**Project Engineering Package.** These materials include selected engineering drawings that have been prepared for the project, which will allow members of the public to have a better understanding of the scale and components of the project, and its basic operations.