



Michael R. Bloomberg, *Mayor*  
Carter H. Strickland, Jr., *Commissioner*

**New York City Department of Environmental Protection  
North River Wastewater Treatment Plant:  
Cogeneration and Electrification Project**

**PUBLIC PARTICIPATION PLAN  
CERTIFICATION DOCUMENT**

***August 2013***

**Michael R. Bloomberg  
Mayor**

**Carter H. Strickland, Jr.  
Commissioner**



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**New York City Department of Environmental Protection  
North River Wastewater Treatment Plant:  
Cogeneration and Electrification Project  
Public Participation Plan**

**CERTIFICATION DOCUMENT**

**Introduction**

New York City Department of Environmental Protection (DEP) is proposing several upgrades to the North River Wastewater Treatment Plant (WWTP), including the cogeneration facility in the existing engine room, and other plant infrastructure and equipment improvements. The cogeneration upgrades will consist of the replacement of the 10 existing tri-fuel (#2 fuel oil, natural gas, and digester gas) engines at the WWTP with 5 new dual fuel (natural gas and digester gas) spark ignited reciprocating engine generators. Additionally, improvements to the WWTP's electrical infrastructure and other related equipment, as well as digester improvements to increase digester gas production and to provide gas cleaning to improve air emissions, will be undertaken as part of this project. The proposed new engine generator units have higher energy efficiency, lower emissions and higher reliability, than the equipment they will be replacing.

As part of DEP's permitting application to the New York State Department of Environmental Conservation (NYSDEC) to modify the existing Title V Facility Air Permit—to include the operation of the five new engines, as well as the temporary interim emergency generators to be used at the North River WWTP during the construction and installation of the new cogeneration facility engines and associated electrical equipment upgrades—a draft Public Participation Plan (PPP) was prepared in accordance with *Commissioner Policy-29 Environmental Justice and Permitting* (CP-29). The draft PPP was submitted to NYSDEC for review and approval on April 26, 2013 and DEP was directed by NYSDEC to proceed with the outreach plan pursuant to the approved draft PPP.

By issuing this **Public Participation Plan Certification Document**, DEP concludes the public participation aspect of the Title V Facility Air Permit Modification Application, and certifies that the requirements and tasks described in the project's draft PPP have been completed. The remainder of this document describes how the public participation and outreach tasks outlined in the draft PPP (April 2013) were completed.

**Completion of the Public Participation Plan**

The draft PPP for this permit modification application included a number of activities and six (6) primary outreach Tasks that were to be undertaken to inform stakeholders about the proposed project and the Title V Facility Air Permit Modification being sought from NYSDEC. The draft PPP for this project was submitted to NYSDEC for their review on April 9, 2013, was revised in response to NYSDEC comments and to better reflect the activities to be undertaken. The revised draft PPP was resubmitted to NYSDEC on April 26, 2013, which was given final NYSDEC written approval on June 11, 2013. DEP was directed to proceed with the outreach plan pursuant to the approved April 2013 final draft PPP. The methods employed to fulfill the requirements of the various outreach Tasks identified in the draft PPP are presented in the sections below.

### **Task #1: Identify Affected Area**

As described in the April 2013 draft PPP (see **Appendix A**), the affected area for the project for outreach purposes was identified in consultation with NYSDEC, and was established as the study area for this project, as an approximately ½-mile radius from the project site (i.e., in and adjacent to the existing North River WWTP engine room). Consideration of the project's location at the North River WWTP, adjacent to the Henry Hudson Parkway and on the Hudson River waterfront, and in a densely developed residential area of the city, and the uses and resident populations within this area, ensured that potential Environmental Justice (EJ) concerns and effects were captured. This process also ensured that outreach would be undertaken to an appropriate area, and that interested entities (stakeholders) were identified, in particular stakeholders representing the area's minority and low-income populations, also known as EJ communities.

### **Task #2 -- Identify Stakeholders and Create an Outreach Contact List**

Stakeholders who would potentially be affected by the operation of the upgraded cogeneration facility and electrification at the North River WWTP were identified. This was done in coordination with Manhattan Community Board 9 (CB9) representatives, DEP, and the consultant team. Stakeholders identified included the following groups:

- DEP employees who work at or visit portions of the North River WWTP facility,
- Residents/neighborhood groups who reside or are active in the vicinity of the proposed project
- Community boards, local community and civic organizations, environmental and business groups, and any entities recommended by these groups
- Neighborhood religious establishments
- Elected officials
- Other appropriate state and local government officials.

The outreach contact list for the project was assembled, including names, addresses, telephone numbers and e-mail addresses (if available) of individuals and organizations (as described above) with potential interest in the proposed cogeneration and electrification upgrade project and Title V Air Facility Permit Modification application. **Appendix A: April 2013 draft PPP, Attachment A** shows the outreach contact list that was developed for this project's draft PPP.

During the course of executing the PPP, no additional stakeholders asked to be added to the project Contact List. Of the forty-four (44) information packages sent out to the project Contact List as part of the general project mailing on May 29, 2013, three (3) were returned as undeliverable, which were addressed to the following organizations: First Calvary Baptist Church (469 West 148th Street, NY, NY 10031); Broadway Spanish Baptist Church (7 Hamilton Terrace, NY, NY 10031); and Splendor of Glory Church (1812 Amsterdam Avenue, NY, NY 10031). No additional or forwarding information was found for these three organizations.

### **Task #3 -- Prepare Written Information**

Written information about the proposed project and the environmental permit review process was prepared for posting and distribution to the public and area stakeholders. The following written materials were prepared and made available to the public as part of this outreach effort via one or more of the following methods: postings to the DEP project webpage, general project mailings, and hard copies for public review at the project's three local Document Repositories (see Task #4, below):

- Draft Public Participation Plan (PPP), April 2013 (see **Appendix A**)
- Project Fact Sheet (bilingual—English/Spanish, see **Appendix B**)
- Project Notice mailing (bilingual—English/Spanish) and on the DEP website in English (see **Appendix C**)
- Public Information Session Meeting Notices (bilingual—English/Spanish) (see **Appendix C**)
- Title V Permit Modification Application
- Environmental Justice Analysis
- Limited Project Engineering Drawings (Draft)

In accordance with the draft PPP, additional project information and materials will be added to the Document Repositories (and the DEP website) as it becomes available, and when NYSDEC issues a draft and final permit. The following additional project and permit-related information will be provided:

- Responses to Questions/Comments made at the May 8, 2013 Project Briefing for the CB9 Health & Environment Committee, and at the June 13, 2013 Public Information Session (see **Appendix D**).
- Updates to the Title V Permit Modification Application
- CEQR Environmental Assessment Statement (EAS)
- CEQR Negative Declaration
- NYSDEC Draft Title V Permit
- NYSDEC Final Title V Permit

### **Task #4 -- Establish Document Repositories/Distribute Project Information**

In accordance with the April 2013 draft PPP, easily accessible document repositories were established within or near the outreach area (defined as part of Task 1, above), which are locations close to the proposed project. The locations of the project's Document Repositories are shown in **Appendix A, Attachment C**, and included two (2) local libraries, the offices of Manhattan CB9, and the DEP project webpage: ([http://www.nyc.gov/html/dep/html/dep\\_projects/north\\_river\\_cogeneration.shtml](http://www.nyc.gov/html/dep/html/dep_projects/north_river_cogeneration.shtml)). Project information was also made available for public review at DEP's Bureau of Communications & Intergovernmental Affairs (59-17 Junction Boulevard, Flushing, NY 11373), which was also a Document Repository for this project. Additionally, project information was given to North River WWTP staff, and was made available at the North River WWTP facility, posted in employee meeting and notice areas.

The locations of the document repositories were included in the Project Fact Sheet that was distributed to the project Contact List and North River WWTP staff, and posted on the DEP website, as well as in the Project Notice mailings. The contents of the

repositories were updated regularly, and were checked to ensure that no documents were missing. A list of document contents was prepared and updated, to help keep the repositories organized.

The draft PPP (April 2013), bilingual Project Fact Sheet, Project Notice letter, (English and Spanish versions) Title V Air Facility Permit Modification Application, Limited Project Engineering Drawings, and the Environmental Justice Analysis prepared for this project were all made available in advance of the June 13, 2013 Public Information Session, on the DEP website and at the project's four Document Repositories. These project materials, in outreach binders, were hand delivered to the Document Repositories on May 30, 2013. The project mailing occurred on May 29, 2013, and included copies of the Project Notice letter (English and Spanish versions) and the bilingual (English/Spanish) Project Fact Sheet.

These materials have all been made available for public review in outreach binders at each of the project's three local Document Repositories, as well as at DEP's Flushing offices, and on the DEP website, and will remain available until 4 months after the issuance of the Final Title V Air Facility Permit Modification, as required by NYSDEC. Responses to questions/comments made at the May 8, 2013 Project Briefing for Manhattan CB9, and the June 13, 2013 Public Information Session, as well as the Final Title V Air Facility Permit Modification, and this PPP Certification Document will also be included in the materials available for public review on the DEP website and at the Document Repositories once NYSDEC has issued the Draft and Final Title V Air Facility Permit Modification, and this PPP Certification Document has been submitted to, and accepted by, NYSDEC.

#### **Task #5 -- Conduct Public Information Meeting/Informational Briefings**

In accordance with the PPP, a Public Information Meeting was held to provide information about the proposed cogeneration upgrade and electrification project and the associated NYSDEC permitting process.

The Public Information Meeting was held on June 13, 2013 at 6:30 PM, at Broadway Housing, 6th Floor Conference Room, located at 583 Riverside Drive (at 135th Street), New York, New York 10031, a local indoor venue that is a familiar location to area residents—where Manhattan CB9 regularly holds its meetings. While this meeting was a distinct stand-alone information session, it was held during a regular Manhattan CB9 Executive Committee Meeting to encourage attendance by the public.

Stakeholders were invited to the Public Information Session, and DEP and consultant team staff members were available to receive and answer questions from the public about the proposed cogeneration upgrade and electrification project and Title V Air Facility Permit Modification application.

Meeting logistics were publicized more than 14 days in advance of the meeting date, in order to give the public reasonable notification. The meeting notices for the June 13, 2013 Public information Session were published in the *Columbia Spectator* in English on May 22, 2013, and in *El Diario/La Prensa* in Spanish on May 30, 2013 (see **Appendix C**). Additionally, a meeting notice was posted on the DEP website on May 30, 2013 (in English and Spanish).

In addition, and as specified in the PPP (and described above in Task #4), Project Notices were sent to all interested stakeholders on the Contact List announcing the project's Public Information Meeting, and availability of information. The Project Fact Sheet (written in English and Spanish) was also sent to the local organizations and all other stakeholders identified on the Contact List for posting at those locations as part of the general mailing. Copies of the Project Notice and Project Fact Sheet were also distributed by hand, in accordance with the draft PPP, to the North River WWTP facility and staff in advance of the June 13, 2013 meeting. A copy of the Project Notice (English and Spanish versions) for the meeting is included in **Appendix C**.

The June 13, 2013 Public Information Session for the project was the first agenda item on the Manhattan CB9 Executive Committee meeting agenda. As part of the Public Information Session, a presentation of the project was made to the public in attendance by DEP staff (in accordance with Task 5 of the April 2013 draft PPP—see **Appendix A**). A copy of the presentation is included in **Appendix D**.

In addition to the publicly advertised June 13, 2013 Public Information Session, at the request of Manhattan CB9, a Project Briefing was given by DEP staff and the consultant team on May 8, 2013 to the Manhattan CB9 Health & Environment Committee.

#### **Task #6 - Prepare Participation Plan Outreach Summary/Certification Document**

This report satisfies Task #6 of the April 2013 draft PPP, and serves as the public participation plan's Certification Document, confirming that the permit applicant (in this case DEP) has complied with the provisions of the draft PPP, and includes a written summary of the outreach conducted under the PPP.

**Appendix D** contains written summaries of the substantive questions/comments raised during the May 8, 2013 Project Briefing for the Manhattan CB9 Health & Environment Committee, and the June 13, 2013 Public Information Session, and provides corresponding responses to those questions/comments. In some cases, the responses provided at the meeting were modified or expanded upon in the summary in order to provide the public with clear and comprehensive information about the project (as indicated in Task #4, these responses to comments/questions will be made available at the Document Repositories and on the DEP website). No additional questions/comments were received by the DEP contact person during the open comment period, which DEP extended to July 1, 2013 from the original comment period end date of June 28, 2013. **Appendix D** also contains the names of attendees at the Public Information Session (see copies of the meeting sign-in sheet).

This Certification Document, including its Appendices, will become part of the permit application and will be made available to the public at the local Document Repositories and on the DEP website upon its completion, and will remain at the three local project Document Repositories, the DEP main office Document Repository in Queens, and on the DEP website for a period of 4 months after the Final SPDES Construction Dewatering and Discharge Permit is issued by NYSDEC, in compliance with NYSDEC policy. \*

**Appendix A:  
Draft Public Participation Plan  
(April 2013)**



Michael R. Bloomberg, *Mayor*  
Carter H. Strickland, Jr., *Commissioner*

**New York City Department of Environmental Protection  
North River Wastewater Treatment Plant:  
Cogeneration and Electrification Project**

**Draft Public Participation Plan**

*April 2013*

**Michael R. Bloomberg**  
Mayor

**Carter H. Strickland, Jr.**  
Commissioner



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# New York City Department of Environmental Protection North River Wastewater Treatment Plant: Cogeneration and Electrification Project Draft Public Participation Plan

## Introduction

New York City Department of Environmental Protection (DEP) is proposing several upgrades to the North River Wastewater Treatment Plant (WWTP), including the cogeneration facility in the existing engine room, and other plant infrastructure and equipment improvements. The cogeneration upgrades would consist of the replacement of the 10 existing tri-fuel (#2 fuel oil, natural gas, and digester gas) engines at the WWTP with 5 new dual fuel (natural gas and digester gas) spark ignited reciprocating engine generators. The existing engines are located within the engine room of the WWTP and are approaching the end of their useful life. Four of the five new engines would operate at any given time, with the fifth engine as a standby unit for emergencies or if one of the other engines requires service or repair. All five engines will be capable of operating during emergencies. The replacement of these engines represents a significant upgrade to the WWTP's co-generation facility, which supplies power for many of the operating systems at the WWTP. The state-of-the-art replacement engines, and the majority of the associated upgrades to piping and electrical systems, would be located within or adjacent to the engine room. The new engines would connect to the existing stacks located at the WWTP, just south of the plant's 145th Street connector. Additionally, improvements to the WWTP's electrical infrastructure and other related equipment would be made to allow the plant to operate based on digester gas, natural gas, electricity, or a combination of any of these energy sources. Thermal recovery systems would be upgraded to utilize the heat produced by the engine generators and distribute it throughout the North River WWTP. Digester improvements are also included with this project to increase digester gas production and to provide gas cleaning to improve air emissions. The proposed new engine generator units have higher energy efficiency, lower emissions and higher reliability.

The goals of the project are supportive of Mayor Michael Bloomberg's goals for New York City outlined in *PlaNYC*, and include:

- Improving local air quality
- Decreasing CO<sub>2</sub>, particulate, and greenhouse gas (GHG) emissions;
- Achieving energy efficiencies and cost savings;
- Encourage clean distributed energy generation;
- Foster renewable energy; and
- Use cleaner fuels.

Additionally, the project will meet several DEP strategic plan targets, including:

- Improving local air quality;
- Reducing greenhouse gasses by more than 30%;
- Improving Power Supply Reliability;
- Providing capability for Demand Side Management;

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- Decreasing Fuel Oil Usage; and
- Construction of Clean Energy facilities.

The cogeneration upgrade and electrification project is currently in the design phase. While the upgrade project is under construction, the existing engines would be taken off line gradually, and replaced with one new unit at a time, to allow for continued operation of the WWTP. Also during project construction, four diesel interim emergency generators may be installed to provide back-up power to the WWTP during blackouts or other ConEd emergencies; these would be removed when construction is complete and the upgraded cogeneration plant is operational. Construction and equipment installation is slated to begin in early 2015 with the startup of the new systems targeted for mid-2018.

This Public Participation Plan (PPP) is part of DEP's permitting application to the New York State Department of Environmental Conservation (NYSDEC) to renew and modify the existing Title V Facility Air Permit to include the operation of the new engines, as well as the temporary interim emergency generators to be used at the North River WWTP during the construction and installation of the new cogeneration facility engines and associated electrical equipment upgrades. In accordance with *Commissioner Policy-29 Environmental Justice and Permitting* (CP-29), NYSDEC requires the permit applicant to develop and execute a public participation plan targeting the local community, and conduct outreach as part of the environmental permit review process.

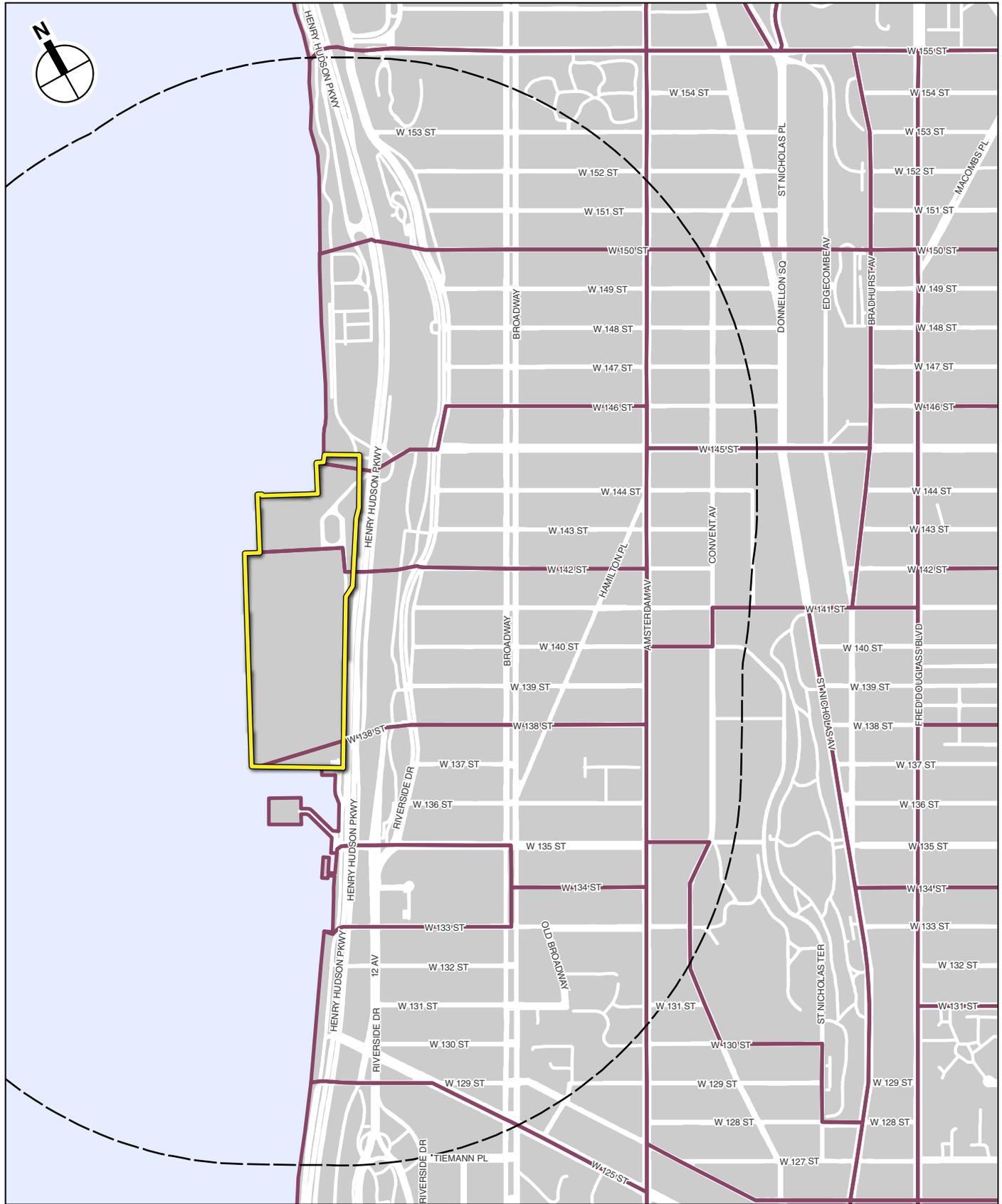
## **Public Participation Plan**

The draft PPP for this permit application includes a number of activities and tasks that will be undertaken to inform stakeholders about the proposed project and the Title V Permit Modification being sought from NYSDEC. This will provide stakeholders access to information about the project and permit and encourage dialogue.

### **Task # 1 -- Identify Affected Area**

Because of the project's location at the North River WWTP (in and adjacent to the existing engine room of the WWTP, located in Upper Manhattan, adjacent to the Henry Hudson Parkway and on the Hudson River waterfront, and in a densely developed residential area of the city), a ½-mile radius from the North River WWTP has been selected in consultation with NYSDEC staff, to ensure that outreach to an appropriate area and interested entities (stakeholders) is undertaken. As shown in **Figure 1**, attached, the ½-mile study area around the WWTP includes portions of Manhattan between Tiemann Place and West 155th Street, west of St. Nicholas Avenue. Particular emphasis will be placed on identifying stakeholders representing the area's minority and low-income populations for outreach during the public participation process.

Within this ½-mile radius of the proposed project site, the surrounding area is dominated by dense residential uses, along with open space/parkland, and to a lesser



-  Project Site Boundary
-  Study Area Boundary (1/2-Mile Perimeter)
-  2010 Census Tracts

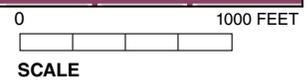


Figure 1  
**Public Participation Plan Outreach Area**

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extent commercial uses. In addition, the study area also includes a portion of the Henry Hudson Parkway (Route 9A)—a major regional highway.

**Task #2 -- Identify Stakeholders and Create an Outreach Contact List**

Stakeholders who may be affected by the operation of the upgraded cogeneration facility and electrification at the North River WWTP will be identified. This will be done in coordination with Community Board representatives and with input from DEP. It is expected that the stakeholders for this plan will include, but may not be limited to:

- DEP employees who work at or visit portions of the North River WWTP facility,
- Residents/neighborhood groups who reside or are active in the vicinity of the proposed project
- Community boards, local community and civic organizations, environmental and business groups, and any entities recommended by these groups
- Neighborhood religious establishments
- Elected officials
- Other appropriate state and local government officials.

A preliminary outreach contact list of stakeholders is being assembled, including names, addresses, telephone numbers and e-mail addresses (if available) of individuals and organizations (as described above) with a possible interest in the proposed project. This list will be updated regularly to include new stakeholders identified as the public participation process continues. The preliminary outreach contact list that has been developed to date for this plan is included in **Attachment A**.

**Task #3 -- Prepare Written Information**

Written information on the proposed action and the environmental permit review process will be prepared for posting and distribution. The following written materials will be prepared and made available to the public as part of this outreach effort:

- Project Fact Sheet\* (An outline of the contents of the Fact Sheet has been developed, and is included in the draft PPP as **Attachment B**.)
- Information Availability Notices\*
- Title V Permit Modification Application
- Limited Project Engineering Drawings (Draft)
- Draft Environmental Justice Analysis
- Draft Public Participation Plan

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Prepared materials will be written in clear, concise language, avoiding legal or overly technical terminology. Materials will be prepared in English; translation into Spanish will be undertaken for the selected materials indicated by a (\*).

Additional project information and materials will be added to the Document Repositories (and the website) as it becomes available, and before NYSDEC issues a draft permit.

**Task #4 -- Establish Document Repositories/Distribute Project Information**

Easily accessible public Document Repositories will be established at locations close to the proposed project and easily accessible to stakeholders. It is anticipated that these will include local Libraries and Community Board offices in or near the outreach area (defined above), as well as at DEP's administrative offices in Queens, and postings on the DEP website (<http://www.nyc.gov/DEP>). The proposed locations of these repositories are shown in **Attachment C**. The availability of any additional public Document Repositories, if they are established, will be noted on DEP website, when they become active.

The repositories will contain a copy of the written information prepared for the proposed project's PPP, (as outlined above in Task #3) as well as copies of the permit applications, and draft permits, once they are available. The contents of the repositories will be checked and updated regularly to ensure that no documents are missing. A list of document contents will be prepared and updated, to help keep the repositories organized.

The locations and web address of the physical and web-based Document Repositories will be included in the Project Fact Sheet and in any project notices and/or flyers distributed publicly.

It is envisioned that information will be distributed or made available to DEP North River WWTP staff by the following means: i) an official memorandum would be circulated at the North River WWTP facility containing a brief explanation of the project to provide information to on-site staff; and ii) the project Fact Sheet would be posted in employee meeting and notice areas. With the implementation of these measures, adequate notification would be provided to DEP North River WWTP staff to learn about the proposed project, and thus afford them the opportunity to provide comments.

**Task #5 -- Conduct Public Information Meeting/Informational Briefings**

One Public Information Meeting will be held at a publicly accessible location in the outreach area to provide information about the proposed cogeneration upgrade and electrification project, and the associated NYSDEC permitting process. (It is currently envisioned that this meeting will be held in conjunction with Manhattan Community Board #9, as a distinct agenda item with its own time allotment, as part of another regularly scheduled Community Board meeting.) In addition, project information will

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be sent to elected officials and the Manhattan Community Board #9, to provide information about the proposed project and the associated NYSDEC Title V permitting process. Stakeholders will also be invited to the Public Information Meeting and will be invited to provide comments on project materials and the draft PPP, in writing to a specified DEP representative. DEP and consultant team staff members will be available to receive and answer questions about the project at the Public Information Meeting.

The Public Information Meeting will be scheduled after consulting the Community Board calendar and with municipal and agency officials. This will help to avoid conflicts with important meetings or events that are regularly held or already scheduled within the community. The Public Information Meeting will be held after the draft permit application has been submitted to NYSDEC for review.

Meeting logistics will be publicized at least fourteen (14) days ahead of the meeting date, in order to give stakeholders reasonable notification, and will include announcements (in English and Spanish) published in newspapers of local distribution.

A general mailing (bilingual English/Spanish) will be prepared for the project for delivery to all interested parties on the Contact List (see Attachment A). This mailing will include Project Notices announcing the project's Public Information Meeting, as well as a copy of the Project Fact Sheet (written in English and Spanish), which will also be sent to the local organizations and all other stakeholders identified on the Contact List for posting at those locations. These Project Information Notices will include:

- the name of the project sponsor;
- the name and address of the proposed project;
- a brief description about the project information available for review;
- the description of why the project information is being sent;
- the comment period being provided for submitting comments on the project, and when the comment period will end;
- contact information for any questions about the project information, or how and where to provide comments (written or via website); and
- where answers to any questions or comments submitted will be made available, and approximately by when, after the comment period has concluded.

An agenda will be prepared and distributed when the Public Information Meeting is held. Attendees will also be informed of where they can obtain answers to any questions they may have after the meeting has concluded. Outreach documents related to this cogeneration upgrade and electrification project will be available at the following website:

<http://www.nyc.gov/DEP>

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**Task #6 - Prepare Participation Plan Outreach Summary/Certification Document**

A written summary of the outreach conducted under the PPP will be prepared and submitted to the NYSDEC. This report will serve as the participation plan's Certification Document, and will include:

- A summary of PPP milestones, outlining plan implementation;
- Methods used to engage the public and solicit outreach;
- Time and date of the Public Information Meeting;
- Time and date of project informational briefings undertaken (if any);
- Any substantive concerns/issues raised during outreach activities or received during the public comment period from stakeholders or the public at large;
- Descriptions of how the issues raised were addressed; and
- A description of any unresolved or outstanding issues.

The written Certification Document will confirm that the applicant has complied with the PPP, and will include a summary detailing the activities that occurred pursuant to the plan. The Certification Document will become part of the permit application and will be made available to the public at the document repositories for a period of four (4) months after the final permit modification is issued by NYSDEC, in accordance with NYSDEC procedures. The Certification Document will also include several appendices as follows:

- Copies of written information such as notices, flyers, newspaper notices, and briefing invitations;
- Copies of meeting agendas
- Meeting summary of the Public Information Meeting; and
- Names of attendees at the Public Information Meeting and at any other project informational briefings, if any are held (copies of sign-in sheets).

\*

**North River Wastewater Treatment Plant (WWTP)  
Cogeneration & Electrification Project  
Draft Public Participation Plan  
Attachment A – Preliminary Contact List**

**COMMUNITY BOARD OFFICES**

**Manhattan Community Board #9**

16-18 Old Broadway  
New York, NY 10027  
Phone: [212-864-6200](tel:212-864-6200)  
Fax: 718-266-8821  
Email: [info@cb9m.org](mailto:info@cb9m.org) or [eprince@cb9m.org](mailto:eprince@cb9m.org)  
**Chair:** Rev. Georgiette Morgan-Thomas, Chair  
**District Manager:** Eutha Prince

**NEW YORK STATE ELECTED OFFICIALS**

**Thirteenth Congressional District, New York  
Congressman Charles Rangel**

*District Office*  
163 West 125th St., Suite #737  
New York, NY 10027  
Tel: 212-663-3900  
Email: [Rangel@mail.house.gov](mailto:Rangel@mail.house.gov)  
*Chief of Staff:* George Henry  
Email: [George.henry@mail.house.gov](mailto:George.henry@mail.house.gov)

**New York State 31st Senate District  
State Senator Adriano Espaillat**

*District Office*  
5030 Broadway, Suite 701  
Suite 701  
New York, NY 10033  
Tel: (718) 523-3069  
*Attn:* Martin Smith  
Email: [msmith@adrianoespailat.org](mailto:msmith@adrianoespailat.org)

**New York State 30th Senate District  
State Senator Bill Perkins**

*District Office*  
163 West 125th Street Harlem State Office Bldg.  
Suite 912  
New York, NY 10027  
Tel: 212-222-7315  
Email: [perkins@nysenate.gov](mailto:perkins@nysenate.gov)  
*Attn:* Cordell Cleare  
Tel: 646-326-6601  
Email: [cordellcleare@gmail.com](mailto:cordellcleare@gmail.com)

**New York State Assembly District 70  
Assemblyman Keith L. T. Wright**

*District Office*  
Adam Clayton Powell, Jr. Building  
163 West 125th Street  
Suite 911  
New York, NY 10027  
Tel: 212-866-5809  
Email: [wright@assembly.state.ny.us](mailto:wright@assembly.state.ny.us)  
*Attn:* Maurice Cummings  
Email: [Mauricecummings70th@gmail.com](mailto:Mauricecummings70th@gmail.com)

**New York State Assembly District 71  
Assemblyman Herman D. Farrell, Jr.**

*District Office*  
751 West 183rd Street  
New York, NY 10033  
Tel: 212-234-1430 or 212-568-2828  
Email: [farrelh@assembly.state.ny.us](mailto:farrelh@assembly.state.ny.us)  
*Attn:* Earnestine Bell-Temple  
Email: [belle@assembly.state.ny.us](mailto:belle@assembly.state.ny.us)

**North River Wastewater Treatment Plant (WWTP)  
Cogeneration & Electrification Project  
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Attachment A – Preliminary Contact List**

**NEW YORK CITY OFFICIALS & COUNCIL REPRESENTATIVES**

**Manhattan Borough President  
*Honorable Scott Stringer***

*Main Office*  
1 Centre Street, 19th Floor  
New York, NY 10007  
212-669-8300  
Email: [bp@manhattanbp.org](mailto:bp@manhattanbp.org)

*Northern Manhattan Office*  
163 West 125th Street  
New York, NY 10027  
212-531-1609

*Director of Northern Manhattan Office*  
Shanifah Rieara  
Email: [srieara@manhattanbp.org](mailto:srieara@manhattanbp.org)

**New York City Council, District 7  
*Council Member Robert Jackson***

*Washington Heights District Office*  
751 West 183rd Street  
New York, NY 10033  
Tel: 212-928-1322 | Fax: 212-928-4177  
Attn: Juan Rosa

Email: [Jrosa@council.nyc.ny.us](mailto:Jrosa@council.nyc.ny.us)

*Hamilton Heights District Office*  
425 West 144th Street  
New York, NY 10031  
Tel: 212-234-0551 | Fax: 212-234-0552

*Legislative Office*  
250 Broadway, Suite 1747  
New York, NY 10007  
Tel: 212-788-7007 | Fax: 212-788-9190  
Email: [rjackson@council.nyc.gov](mailto:rjackson@council.nyc.gov)

**RIVERBANK STATE PARK**

Oscar Smith, Deputy Director  
Riverbank State Park  
679 Riverside Drive  
New York, NY 10031  
Tel: 212-694-3608 or 212-694-3600 (general #)  
Email: [Oscar.smith@parks.ny.gov](mailto:Oscar.smith@parks.ny.gov)

Reginald Magwood, Park Director  
Riverbank State Park  
679 Riverside Drive  
New York, NY 10031  
Tel: 212-694-3637

**RELIGIOUS & COMMUNITY ORGANIZATIONS**

**RELIGIOUS ORGANIZATIONS**

St. Luke's Episcopal Church  
435 West 141st Street  
New York, NY 10031  
Tel: 212-926-2713

Church-Christian Fellowship  
1763 Amsterdam Avenue  
New York, NY 10031  
Tel: 212-281-3766

**North River Wastewater Treatment Plant (WWTP)  
Cogeneration & Electrification Project  
Draft Public Participation Plan  
Attachment A – Preliminary Contact List**

Day Spring Baptist Church  
1788 Amsterdam Avenue, # 1  
New York, NY 10031  
Tel: 212-281-4606

Well Living Water Ministries  
535 W 151st Street, #6D  
New York, NY 10031  
Tel: 212-491-7978

Macedonia Baptist Church  
452 West 147th Street  
New York, NY 10031  
Tel: 917-507-9520

Interreligious Foundation for Community  
Organization (IFCO)/Pastors for Peace  
418 W 145th Street, #3  
New York, NY 10031  
Tel: 212-926-5757  
Fax: 212-926-5842  
Email: [ifco@igc.org](mailto:ifco@igc.org)

Ministry Eagles Nest Restoration  
1662 Amsterdam Avenue  
New York, NY 10031  
Tel: 347-758-9001

Our Lady of Lourdes Church  
463 West 142nd Street  
New York, NY 10031  
Fr. Fabian Lopez  
Tel: 212-862-4380  
Fax: 212-862-4126

Convent Avenue Baptist Church  
425 West 144th Street  
New York, NY 10031  
Tel: 212-234-4673

Broadway Spanish Baptist Church  
7 Hamilton Terrace  
New York, NY 10031  
Tel: 212-862-1186

Christian Church – El Dios Vivo  
601 West 139th Street, #24  
New York, NY 10031  
Tel: 347-839-0300

Christian Science Church  
555 West 141st Street  
New York, NY 10031  
Tel: 212-283-5158

Travellers Rest Baptist Church  
1650 Amsterdam Avenue, #2F  
New York, NY 10031  
Tel: 212-281-7777

Greater Tabernacle Baptist Church  
340 Convent Avenue  
New York, NY 10031  
Tel: 212-368-4754

First Calvary Baptist Church  
469 West 148th Street  
New York, NY 10031  
Tel: 212-281-2192

Seventh-Day Adventist Church  
562 West 150th Street  
New York, NY 10031  
Tel: 212-234-5630  
Fax: (212) 234-1201

Congregation – Jehovah Witness  
3654 Broadway  
New York, NY 10031  
Tel: 212-862-0945

The Church of Saint Catherine of Genoa  
506 West 153rd Street  
New York, NY 10031  
Tel: 212-926-0252  
Fax: (212) 491-6272  
Contact: Rev. Msgr. Kenneth J. Smith  
Email: [rsmithken@aol.com](mailto:rsmithken@aol.com)

**North River Wastewater Treatment Plant (WWTP)  
Cogeneration & Electrification Project  
Draft Public Participation Plan  
Attachment A – Preliminary Contact List**

Splendor of Glory Church  
1812 Amsterdam Avenue  
New York, NY 10031  
Tel: 212-694-8010

Jehovah-Jireh Baptist Church  
536 West 148th Street  
New York, NY 10031  
Tel: 212-234-5422

Meeting with God Pentecostal  
3581 Broadway  
New York, NY 10031  
Tel: 212-234-3564

St. Luke A.M.E. Church  
1854 Amsterdam Avenue  
New York, NY 10031  
Tel: 212-870-1349

Most Worshiper Grand Temple  
474 West 141st Street  
New York, NY 10031  
Tel: 212-283-4651

Episcopal Church of the Crucifixion  
459 West 149th Street  
New York, NY 10031  
Tel: 212-281-0900  
Fax: 212-694-1116  
Email: [coc@churchofthecrucifixion.org](mailto:coc@churchofthecrucifixion.org)

Community of the Holy Spirit  
St. Hilda's House  
454 Convent Avenue  
New York, NY 10031  
Tel: 212-666-8249, x200  
Email: [NY@CHSSisters.org](mailto:NY@CHSSisters.org)

The Holy Apostles Church/  
Holy Fathers Russian Orthodox Church  
524 West 153rd Street  
New York, NY  
Tel: 212-281-3992

**COMMUNITY ORGANIZATIONS**

North River Community Environmental Review  
Board, Inc. (NRCERB)  
Ann Rocker, Chairperson  
626 Riverview Drive  
1st Floor Prof. Suite  
New York, NY 10031  
Tel: 212-491-3590  
Email: [Nrcerb\\_org@juno.com](mailto:Nrcerb_org@juno.com)

Mirabal Sisters Cultural & Community Center  
618 West 142nd Street  
Ground Level  
New York, NY 10031  
Tel: 212-234-3002 or 212-234-3423  
Fax: 212-234-3005  
Email: [info@mirabalcenter.org](mailto:info@mirabalcenter.org)  
*Contact:* Luis Manuel Tejada, Executive Director  
Email: [luistejada@mirabalcenter.org](mailto:luistejada@mirabalcenter.org)

Hamilton Heights-West Harlem Community  
Preservation Organization  
502 West 142nd Street  
Ground Floor  
New York, NY 10031  
Tel: 212-939-9201  
*Contact:* Ron Melichar, President, Executive Board

**North River Wastewater Treatment Plant (WWTP)  
Cogeneration & Electrification Project  
Draft Public Participation Plan  
Attachment A – Preliminary Contact List**

**GOVERNMENT AGENCY**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC)  
Region 2 – Division of Environmental Permits  
Contact: Elizabeth A. Clarke, Project Manager  
1 Hunters Point Plaza  
47-40 21st Street  
Long Island City, NY 11101-5407  
(718) 482-4997

**New York City Department of Environmental Protection  
North River Wastewater Treatment Plant:  
Cogeneration and Electrification Project  
Draft Public Participation Plan  
Attachment B – Fact Sheet Outline**

The following is an outline of the proposed contents of the Fact Sheet to be distributed for the North River WWTP Cogeneration facility upgrade Title V facility permit modification, as part of the outreach materials for the project.

## **Title of Fact Sheet**

We proposed to use:

**New York City Department of Environmental Protection  
North River Wastewater Treatment Plant:  
Cogeneration and Electrification Project  
Project Fact Sheet**

## **The DEP North River Wastewater Treatment Plant**

A brief description of the North River Wastewater Treatment Plant (WWTP) and its basic operations will be provided under this heading. A figure showing the location of the plant will be included.

## **Issues/Project Goals**

This section would provide a brief outline of the issues with the North River WWTP's existing systems and the engines and other equipment that are to be replaced, the project's overall goals, and how they relate to and support the city-wide *PlaNYC* goals, as well as DEP's strategic plan targets.

## **The Solution/Project Benefits**

This section will include a brief description of the proposed cogeneration facility and the other related electrification improvements, their proposed locations, and their associated benefits. There will be figures showing the conceptual layout of the proposed equipment.

## **Public Outreach**

This section mentions that this is part of the permit review process, refers to the Public Participation Plan, and indicates where project information is being made available to the public.

## **Document Repositories**

There will be a special "Information Box" on the Fact Sheet that shows the addresses and locations of the document repositories for the project. There will also be a line indicating a DEP project contact and a web address for more information.

**New York City Department of Environmental Protection  
North River Wastewater Treatment Plant:  
Cogeneration and Electrification Project  
Draft Public Participation Plan  
Attachment C – Proposed Document Repositories**

**LIBRARIES**

*New York Public Library—Hamilton Grange Library*

503 West 145th Street (at Amsterdam Avenue)  
New York, NY 10031  
212-926-2147

*New York Public Library—George Bruce Library*

518 West 125th Street (at Amsterdam Avenue)  
New York, NY 10027-3407  
212-662-9727

**COMMUNITY BOARD OFFICES**

*Manhattan Community Board #9*

16-18 Old Broadway  
New York, NY 10027  
Phone: [212-864-6200](tel:212-864-6200)  
Fax: 718-266-8821  
Email: [info@cb9m.org](mailto:info@cb9m.org) or [eprince@cb9m.org](mailto:eprince@cb9m.org)  
**Chair:** Rev. Georgiette Morgan-Thomas, Chair  
**District Manager:** Eutha Prince

**GOVERNMENT OFFICES**

*New York City Department of Environmental Protection*

Bureau of Communications & Intergovernmental Affairs  
59-17 Junction Boulevard  
Flushing, NY, 11373  
Contact: Shane Ojar, Director, Community Partnerships  
718-595-4148

**ON-LINE WEBSITE**

*Outreach documents related to this boiler upgrade and replacement project will be available at the following NYCDEP website:*

<http://www.nyc.gov/DEP>

**Appendix B:**  
**Project Fact Sheet**  
*(Bilingual—English/Spanish)*

# NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

## North River Wastewater Treatment Plant: Cogeneration and Electrification Project PROJECT FACT SHEET



Figure 1: Aerial photograph of the North River Wastewater Treatment Plant (WWTP) & Riverbank State Park, view looking southwest  
Figura 1: Fotografía aérea de la Planta de Tratamiento de Aguas Residuales (PTAR) North River y el Parque Estatal Riverbank, vista mirando hacia el suroeste



Figure 2: Rendering of new engine generators and existing blowers being driven by new electric motors in WWTP engine room  
Figura 2: Representación de los nuevos generadores de motor y los sopladores existentes siendo impulsados por nuevos motores eléctricos en la sala de máquinas de la PTAR

# DEPARTAMENTO DE PROTECCIÓN AMBIENTAL DE LA CIUDAD DE NUEVA YORK

## Planta de Tratamiento de Aguas Residuales North River: Proyecto de Cogeneración y Electrificación FOLLETO DE INFORMACIÓN DEL PROYECTO

## THE NORTH RIVER WASTEWATER TREATMENT PLANT (WWTP):

The New York City Department of Environmental Protection (DEP) North River Wastewater Treatment Plant (WWTP) serves approximately 550,000 people on the west side of Manhattan. The 28-acre plant consists of almost 5 million square feet of treatment facilities (see **Figure 1**). The plant is a primary and secondary treatment facility with a design dry weather flow of 170 million gallons per day (MGD), and a peak wet weather flow of 340 MGD. It treats a combination of wastewater and storm water through a series of treatment and processing systems that require significant heat and power. The treated wastewater is disinfected before it is discharged into the Hudson River. The sludge from the treatment processes is collected and sent to on-site gravity thickeners, and then is stabilized in anaerobic digesters. The digesters generate combustible biogas which is used as a fuel source for engines and boilers at the WWTP.

The North River WWTP uses a considerable amount of energy from a variety of sources. The annual energy consumption is 55 gigawatt hours (GWh) of electricity; 500,000 therms of natural gas; and approximately 1.652 million gallons of #2 fuel oil (more than 50% of the plant's total energy consumption). This would be the equivalent of the electricity to power about 5,500 households for a year, and the fuel used annually in about 5,000 households for heat, hot water, cooking, etc. The plant's 10 tri-fuel (#2 fuel oil, natural gas, and digester gas) engines, which are located in the engine room of the plant, are used to power treatment process pumps and blowers. The plant operates continuously and is a Title V permitted facility.

## ISSUES/PROJECT GOALS

The primary issue is that the WWTP's existing engines are nearing the end of their useful life and are due for a major overhaul or replacement.

**The proposed project has the following primary goals:**

Reduce Air Pollutant Emissions • Reduce Greenhouse Gas (GHG) • Reduce Truck Traffic related to fuel oil deliveries • Reduce Congestion on the local electric grid to prevent brownouts during peak usage times • Improve Safety • Improve Reliability • Reduce Operational Complexity • Reduce Energy Cost

**The goals of the project are supportive of Mayor Michael Bloomberg's goals for New York City outlined in *PlaNYC*, and include:**

Decreasing Carbon Dioxide (CO<sub>2</sub>), Particulate, and GHG Emissions • Improving Local Air Quality • Achieving Energy Efficiencies and Cost Savings • Encourage Clean Distributed Energy Generation • Foster Renewable Energy • Use Cleaner Fuels

**Additionally, the project will meet several DEP strategic plan targets, including:**

Reducing GHG emissions by more than 30% • Improving Power Supply Reliability • Providing Demand Side Management Capability • Decreasing Fuel Oil Usage • Construction of Clean Energy Facilities

## THE SOLUTION/PROJECT BENEFITS

The proposed project is the replacement of the ten existing engines—that are approaching the end of their useful life—with newer and more efficient electric motors and a new cogeneration facility consisting of 5 new dual fuel (natural and digester gas) engines. Four of the five engines will operate at any one time, with the fifth as a standby unit. The project will result in an overall positive effect on air quality in the study area, including significant reductions in emissions of nitrogen-oxides (NO<sub>x</sub>), CO, GHGs, volatile organic compounds (VOCs), and air toxics emissions. The project will also result in a more cost effective, reliable, and operator friendly system that will provide energy and air quality benefits. The new cogeneration facility will meet or exceed all federal, state, and local air quality regulations and requirements.

The cogeneration upgrade and electrification project is currently in the design phase. The majority of the new equipment will be located within or adjacent to the engine room (see **Figure 2** and **Figure 3**). The new engine exhausts will connect to the WWTP's existing stacks, which would remain unchanged. While the upgrade project is under construction, the existing engines would be replaced with one new unit at a time, to allow for continued operation of the WWTP. Also during project construction, four interim diesel emergency generators may be installed to provide back-up power to the WWTP during blackouts or other ConEd emergencies; these would be removed when construction is complete and the upgraded cogeneration plant is operational. Construction and equipment installation is slated to begin in early 2015 with the startup of the new systems targeted for mid-2018.



Figure 3: Rendering of new main sewage pump motors and the auxiliary engine equipment  
Figura 3: Representación de los nuevos motores principales de las bombas de aguas residuales y el equipo de motor auxiliar

## LA PLANTA DE TRATAMIENTO DE AGUAS RESIDUALES (PTAR) NORTH RIVER:

La Planta de Tratamiento de Aguas Residuales (PTAR) North River del Departamento de Protección Ambiental de la Ciudad de Nueva York (DEP) sirve a aproximadamente 550,000 personas en el lado oeste de Manhattan. La planta de 28 acres consiste de casi 5 millones de pies cuadrados de instalaciones de tratamiento (véase la **Figura 1**). La planta es una instalación de tratamiento primario y secundario con un diseño de flujo de 170 millones de galones por día (MGD) en tiempo seco, y un flujo máximo de 340 MGD en tiempo húmedo. Se trata una combinación de aguas residuales y aguas pluviales a través de una serie de sistemas de tratamiento y procesamiento que requieren cantidades significativas de calor y potencia. Las aguas residuales tratadas se desinfectan antes de su descarga en el Río Hudson. El lodo de los procesos de tratamiento se recoge y se envía a los condensadores gravitacionales cuales están dentro de la planta, y luego se estabiliza en los digestores anaerobios. Los digestores generan biogas combustible que se utiliza como fuente de combustible para los motores y calderas en la PTAR.

La PTAR North River utiliza una cantidad de energía considerable de diversas fuentes. El consumo anual de energía es de 55 gigavatio horas (GVh) de electricidad, 500,000 termias de gas natural, y aproximadamente 1,652 millones de galones de aceite combustible # 2 (más del 50 por ciento del consumo de energía de la planta total). Esto sería el equivalente a la electricidad para unos 5,500 hogares durante un año, y el combustible utilizado anualmente en cerca de 5,000 hogares para calefacción, agua caliente, cocinar, etc. Las diez motores de tres combustibles (aceite combustible # 2, gas natural, y gas digester) de la planta, que se encuentran en la sala de máquinas de la planta, se utilizan para bombas y sopladores del proceso de tratamiento. La planta opera continuamente y es una instalación permitida del Título V.

## ASUNTOS/METAS DEL PROYECTO

La cuestión principal es que los motores de la PTAR existentes se están acercando al fin de sus vidas útiles y son debidos para un reacondicionamiento importante o reemplazamiento.

**El proyecto propuesto tiene los siguientes metas principales:**

Reducir las Emisiones de Contaminantes del Aire • Reducir los Gases de Efecto Invernadero (GEI) • Reducir el Tránsito de Camiones en relación con las entregas de petróleo combustible • Reducir Congestión en la red eléctrica local, para evitar caídas de tensión durante las horas de uso máximo • Mejorar Seguridad • Mejorar la Confiabilidad • Reducir la Complejidad Operativa • Reducir los Costos de Energía

**Las metas del proyecto son de apoyo de las metas para el Ciudad de Nueva York del alcalde Michael Bloomberg esbozados en el *PlaNYC*, e incluyen:**

La Disminución de las emisiones de dióxido de carbono (CO<sub>2</sub>), Partículas, y GEI • Mejorando la Calidad del Aire Local • Lograr Eficiencia Energética y Ahorros de Costos • Fomentar la Generación de Energía Distribuida • Fomentar Energía Renovable • Utilizar Combustibles más Limpios

**Además, el proyecto cumplirá con varios objetivos del plan estratégico del DEP, que incluyen:**

Reducción de las emisiones de GEI por más de 30 por ciento • Mejorar la Confiabilidad de la Fuente de Poder • Proporcionar la Capacidad de Gestión de Demanda • Disminución del Uso de Aceite Combustible • Construcción de Instalaciones de Energía Limpia

## LA SOLUCIÓN/BENEFICIOS DEL PROYECTO

El proyecto propuesto es el reemplazo de los diez motores existentes que se están acercando al fin de sus vidas útiles, con motores eléctricos nuevos y más eficientes y una nueva planta de cogeneración, que consiste de 5 motores nuevos de combustible dual (gas natural y del digester). Cuatro de los cinco motores operarán al mismo tiempo, con la quinta como una unidad de reserva. El proyecto resultará en un efecto positivo sobre la calidad del aire en el área de estudio, incluyendo reducciones significativas de las emisiones de óxidos de nitrógeno (NO<sub>x</sub>), CO, GEI, compuestos orgánicos volátiles (COV), y las emisiones de tóxicos del aire. El proyecto también dará lugar a un sistema más económico, confiable y fácil de operar que proporcionará beneficios de energía y calidad del aire. La nueva instalación de cogeneración cumplirá o excederá con todos los reglamentos y requisitos federales, estatales, y locales sobre la calidad del aire.

El proyecto de la actualización de cogeneración y electrificación está en la fase de diseño en este momento. La mayoría de los nuevos equipos serán situados dentro o adyacente a la sala de máquinas (véase la **Figura 2** y **Figura 3**). Los escapes de los motores nuevos se conectarán a las pilas existentes de la PTAR, las cuales permanecerían sin cambios. Mientras que el proyecto de actualización se encuentra en construcción, los motores existentes se sustituirían por una nueva unidad a la vez, para permitir la continuación del funcionamiento de la PTAR. Asimismo durante la construcción del proyecto, cuatro generadores diesel provisionales de emergencia se pueden instalar para proveer energía de respaldo a la PTAR durante apagones u otras emergencias de ConEd; los cuales serían eliminados cuando se completa la construcción y la planta de cogeneración actualizado está operativa. La construcción e instalación del equipo está programada para comenzar a principios de 2015 con el inicio de los nuevos sistemas estimados a mediados de 2018.

## PUBLIC OUTREACH/ALCANCE PÚBLICO

The Title V Facility Air Permit modification, being sought from the New York State Department of Environmental Conservation (NYSDEC) for the operation of the proposed upgraded cogeneration plant, requires that the permit applicant develop and execute a public participation plan as part of the environmental permit review process. As part of the NYSDEC permitting process, DEP is actively soliciting community participation in the permit review process. A draft public participation plan has been prepared; this Fact Sheet is part of that effort.

La modificación del Permiso de Aire de Instalación de Título V, cuál se busca del Departamento de Conservación Ambiental del Estado de Nueva York (NYSDEC) para la operación de la planta propuesta de cogeneración mejorada, requiere que el solicitante del permiso desarrolla y ejecuta un plan de participación público como parte del proceso de revisión ambiental del permiso. Como parte del proceso de permisos del NYSDEC, el DEP activamente solicita participación de la comunidad en el proceso de revisión de permiso. Un plan preliminar de participación público ha sido preparado; este Folleto de Información forma parte de ese esfuerzo.

## FOR MORE INFORMATION/PARA MÁS INFORMACIÓN

### DOCUMENT REPOSITORIES

Documents pertaining to this project will be available for public review at the following locations. Please call ahead for the hours of each location. For more information, or to be added to the mailing list for the project, please contact: Shane Ojar (Phone) 718-595-4148 (Email) [sojar@dep.nyc.gov](mailto:sojar@dep.nyc.gov).

### DEPOSITOS DE DOCUMENTOS

Los documentos que pertenecen a este proyecto estarán disponibles para revisión pública en los lugares siguientes. Por favor llame antes para saber el horario de cada lugar. Para más información, o para ser añadido a la lista de envío, por favor pongase en contacto con: Shane Ojar, (telefono) 718-595-4148, (correo electrónico) [sojar@dep.nyc.gov](mailto:sojar@dep.nyc.gov).

### LIBRARIES/BIBLIOTECAS

#### New York Public Library— Hamilton Grange Library

503 West 145th Street  
(at Amsterdam Avenue)  
New York, NY 10031

Tel: 212-926-2147

#### New York Public Library— George Bruce Library

518 West 125th Street  
(at Amsterdam Avenue)  
New York, NY 10027

Tel: 212-662-9727

### COMMUNITY BOARD OFFICES/ OFICINAS DE LA JUNTA COMUNITARIA

#### Manhattan Community Board #9

16-18 Old Broadway  
New York, NY 10027

Phone: 212-864-6200

Fax: 718-266-8821

Email: [info@cb9m.org](mailto:info@cb9m.org) or  
[eprince@cb9m.org](mailto:eprince@cb9m.org)

Chair: Rev. Georgiette Morgan-Thomas  
District Manager: Eutha Prince

### GOVERNMENT OFFICES/ OFICINAS DEL GOBIERNO

#### New York City Department of Environmental Protection

Bureau of Communications &  
Intergovernmental Affairs  
59-17 Junction Boulevard  
Flushing, NY, 11373

Phone: 718-595-4148

Contact: Shane Ojar, Director,  
Community Partnerships

**WEBSITE/SITIO WEB: [WWW.NYC.GOV/DEP](http://WWW.NYC.GOV/DEP)**

**Appendix C:**  
**Project Notice Mailing & Newspaper Meeting Notices**  
*(Bilingual—English/Spanish)*  
**& DEP Webpage**

**Michael R. Bloomberg**  
Mayor



**Carter H. Strickland, Jr.**  
Commissioner



## Project Information Notice

**Name & Address of Project:** North River Wastewater Treatment Plant (WWTP)—Cogeneration and Electrification Project, 725 West 135th Street, Manhattan, NY

**Project Sponsor:** New York City Department of Environmental Protection (DEP)

### **Project Information Available for Review:**

The following Project Information is available for public review at the Document Repositories (listed at the end of this Notice) or on-line at the project website (<http://www.nyc.gov/DEP>):

- Project Fact Sheet
- Project Information Notice
- Title V Permit Modification Application
- Draft Environmental Justice Analysis
- Draft Public Participation Plan
- Limited Project Engineering Drawings (Drafts)

### **What is the North River WWTP Cogeneration and Electrification Project?**

The engines generating electricity for the North River Wastewater Treatment Plant (WWTP) are nearing the end of their useful life and need to be replaced. DEP is proposing to replace the ten existing engines with electric motors and the installation of a cogeneration facility. The project will provide energy and air quality benefits, and result in an overall positive effect on air quality in the study area.

### **Why is this information being made available and why has this Notice been sent to you?**

The project will require a modification of the Title V Facility Air Permit to be approved by the New York State Department of Environmental Conservation (NYSDEC). As part of the permitting process for this project, NYSDEC requires the permit applicant (in this case DEP) to develop and execute a Public Participation Plan (PPP), and conduct outreach as part of the environmental permit review process. As part of this effort, the project-related materials and written information that have been developed for this project (listed above) are being made available for review by the public.

### **Comment period for submitting comments on the project.**

The cut-off date for submitting written comments is: **JUNE 28, 2013.**

### **Where and how to provide comments on the project:**

DEP will be holding a Public Information Session to discuss the permit modification application and to provide the public with an opportunity to learn about the project, ask questions, and provide comments on the application. The Public Information Session will be held at Broadway Housing, located at 583 Riverside Drive (at 135th Street) New York, New York 10031 at 6:30 PM, Thursday, June 13, 2013.

Questions or comments related to any of the project materials may be submitted in writing to the DEP contact person listed below.

Shane Ojar, Director, Community Partnerships  
Bureau of Communications & Intergovernmental Affairs  
New York City Department of Environmental Protection  
59-17 Junction Boulevard  
Flushing, NY, 11373  
Telephone: 718-595-4148  
Email: [sojar@dep.nyc.gov](mailto:sojar@dep.nyc.gov)

*Where will you be able to find the answers to questions or comments submitted, and when will those responses be available?*

After the comment period indicated above has ended, answers to questions or comments submitted will be made available on the project website, and at the Document Repositories, or can be obtained by sending an e-mail request to: [sojar@dep.nyc.gov](mailto:sojar@dep.nyc.gov). It is anticipated that responses to questions and comments that are submitted related to this cogeneration and electrification project will be available within **30 days** after the close of the comment period.

**DOCUMENT REPOSITORIES**

The following Document Repositories have been established for this project:

**NEW YORK PUBLIC LIBRARY—HAMILTON GRANGE LIBRARY**

503 West 145th Street (at Amsterdam Avenue)  
New York, NY 10031  
Phone: 212-926-2147

**NEW YORK PUBLIC LIBRARY—GEORGE BRUCE LIBRARY**

518 West 125th Street (at Amsterdam Avenue)  
New York, NY 10027-3407  
Phone: 212-662-9727

**COMMUNITY BOARD OFFICES**

Manhattan Community Board #9  
16-18 Old Broadway  
New York, NY 10027  
Phone: 212-864-6200

**GOVERNMENT OFFICES**

New York City Department of Environmental Protection  
59-17 Junction Boulevard  
Flushing, NY, 11373  
Phone: 718-595-4148

**Please call ahead for the hours of operation of any location listed above that you intend to visit.**

**ON-LINE WEBSITE**

Outreach documents related to this cogeneration and electrification project at the North River Wastewater Treatment Plant will be available at the following website:

<http://www.nyc.gov/DEP>

Michael R. Bloomberg  
Alcalde



Carter H. Strickland, Jr.  
Comisionado



## Aviso de Información del Proyecto

**Nombre y Dirección del Proyecto:** Planta de Tratamiento de Aguas Residuales (PTAR) North River—  
Proyecto de Cogeneración y Electrificación, 725 West 135th Street, Manhattan, NY

**Patrocinador del Proyecto:** Departamento de Protección Ambiental de la Ciudad de Nueva York (DEP)

### **Información del Proyecto Disponible para la Revisión:**

La siguiente Información del Proyecto está disponible para la revisión pública en los Depósitos de Documentos (listados al final de este Aviso) o en línea en el sitio web del proyecto (<http://www.nyc.gov/DEP>):

- Hoja Informativa del Proyecto
- Aviso de Información del Proyecto
- Solicitud de la Modificación del Permiso de Título V
- Análisis de Justicia Ambiental Preliminar
- Plan Preliminar de Participación Pública
- Dibujos de Ingeniería Limitados del Proyecto (Preliminares)

### **¿Qué es el Proyecto de Cogeneración y Electrificación de la PTAR North River?**

Los motores de generación de electricidad para la Planta de Tratamiento de Aguas Residuales (PTAR) North River se acercan al final de sus vidas útiles y se necesitan reemplazar. DEP está proponiendo reemplazar los diez motores existentes con motores eléctricos y la instalación de una planta de cogeneración. El proyecto proveerá beneficios de calidad del aire y energía, y dará lugar a un efecto positivo sobre la calidad del aire en el área de estudio.

### **¿Por qué se haga disponible esta información y por qué este Aviso ha sido enviado a usted?**

El proyecto requerirá una modificación del Permiso de Título V de Instalaciones de Aire de ser aprobado por el Departamento de Conservación Ambiental del Estado de Nueva York (NYSDEC). Como parte del proceso de autorización para este proyecto, NYSDEC requiere que el solicitante del permiso (en este caso DEP) desarrolle y ejecute un Plan de Participación Pública (PPP), y que lleve a cabo actividades de extensión como parte del proceso de revisión del permiso ambiental. Como parte de este esfuerzo, los materiales relacionados con el proyecto y la información escrita que se han desarrollado para este proyecto (que se enumeran más arriba) están disponibles para su revisión por el público.

### **Período de comentario para someter comentarios sobre el proyecto.**

La última fecha para someter comentarios escritos es: **el 28 de junio del 2013.**

### **Dónde y cómo proporcionar comentarios sobre el proyecto:**

DEP llevará a cabo una Sesión de Información Pública para discutir la solicitud de modificación del permiso y para ofrecer al público la oportunidad de conocer el proyecto, hacer preguntas, y hacer observaciones sobre la solicitud. La Sesión de Información Pública se llevará a cabo en Broadway Housing, ubicada en 583 Riverside Drive (en 135th Street) New York, New York 10031 a las seis y media de la noche, el jueves, 13 de junio del 2013.

Preguntas o comentarios relacionados con cualquiera de los materiales del proyecto pueden ser presentadas por escrito a la persona de contacto de DEP enumerado a continuación.

Shane Ojar, Director, Community Partnerships  
Bureau of Communications & Intergovernmental Affairs  
New York City Department of Environmental Protection  
59-17 Junction Boulevard  
Flushing, NY, 11373  
Teléfono: 718-595-4148  
Correo Electrónico: [sojar@dep.nyc.gov](mailto:sojar@dep.nyc.gov)

*¿Cuándo va a ser posible de encontrar las respuestas a las preguntas o comentarios presentados, y cuándo estarán disponibles esas respuestas?*

Después de que el periodo de comentarios que se indicó anteriormente ha terminado, las respuestas a las preguntas o comentarios presentados estarán disponibles en la página web del proyecto, y en los Depósitos de Documentos, o se pueden obtener mediante el envío de una solicitud por correo electrónico a: [sojar@dep.nyc.gov](mailto:sojar@dep.nyc.gov). Se prevé que las respuestas a las preguntas y comentarios que se presenten en relación con este proyecto de cogeneración y de electrificación estarán disponibles dentro de 30 días después de que el período de comentarios se termina.

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**SITIO WEB**

Documentos de extensión pública relacionados con este proyecto de cogeneración y electrificación en la Planta de Tratamiento de Aguas Residuales North River estarán disponibles en el sitio web siguiente:

<http://www.nyc.gov/DEP>

NORTH RIVER WWTP: COGENERATION & ELECTRIFICATION PROJECT • TITLE V FACILITY AIR PERMIT MODIFICATION • PUBLIC INFORMATION SESSION

New York City Department of Environmental Protection (DEP) invites you to an Informational Session at Broadway Housing, located at 583 Riverside Drive (at 135th Street) New York, New York 10031 at 6:30 PM, Thursday, June 13, 2013.

DEP is proposing to replace the ten existing engines that drive the main sewage pumps and aeration blowers at the North River Wastewater Treatment Plant (WWTP) with new electric motors and the installation of a cogeneration facility. The project will require a modification to the Title V Facility Air Permit to be approved by New York State Department of Environmental Conservation (NYSDEC). Additional information about this project can be found in a fact sheet at www.nyc.gov/DEP. DEP has submitted a permit application to NYSDEC Region 2 Office requesting authorization to operate this upgraded facility under a modified Title V Air Facility permit. This meeting is being held in order to inform stakeholders in conformance with DEC Commissioner's policy CP-29, Environmental Justice and Permitting.

This session will include an informational presentation regarding the permit application submitted by DEP, followed by an opportunity to ask questions and provide comments related to the permit application.

Contact Information

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**Planta de Tratamiento de Aguas Residuales (PTAR) North River: Proyecto de Cogeneración y Electrificación Modificación del Permiso de Aire de Instalaciones de Título V Sesión de Información Público**

El Departamento de Protección Ambiental de la Ciudad de Nueva York (DEP) invita al público a una sesión de información en Broadway Housing, ubicado en 583 Riverside Drive (cerca de 135th Street) Nueva York, NY, a las seis y media de la noche, Jueves, 13 de junio 2013. DEP está proponiendo reemplazar los diez motores existentes que impulsan las bombas de aguas residuales principales y los sopladores de aireación en la Planta de Tratamiento de Aguas Residuales (PTAR) North River con motores eléctricos nuevos y la instalación de una planta de cogeneración. El proyecto requerirá que una modificación del Permiso de Aire de Instalaciones de Título V sea aprobado por el Departamento de Conservación Ambiental del Estado de Nueva York (NYSDEC). Información adicional acerca este proyecto se puede encontrar en una hoja informativa en [www.nyc.gov/DEP](http://www.nyc.gov/DEP). DEP ha sometido una solicitud de permiso a la Oficina de Región 2 del NYSDEC solicitando la autorización para operar esta instalación mejorado en virtud de un Permiso de Aire de Instalaciones de Título V modificado. Esta sesión se conviene para informar a los interesados en conformidad con la policía CP-29, Justicia Ambiental y Permisos del Comisario del NYSDEC. Esta sesión incluirá una presentación informativa sobre la solicitud del DEP para el permiso, seguido de una oportunidad de hacer preguntas y recibir comentarios en relación con la solicitud del permiso

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# North River Wastewater Treatment Plant Cogeneration and Electrification Project

The New York City Department of Environmental Protection (DEP) has started work on a project to replace the ten existing engines that power the North River Wastewater Treatment Plant (North River Plant). These engines are approaching the end of their useful life and will be replaced with newer and more efficient electric motors and a new cogeneration facility consisting of 5 new dual fuel (natural and digester gas) engines. The new engines will have an overall positive effect on air quality in the area surrounding the North River Plant by significantly reducing emissions of nitrogen-oxides (NOx), CO, GHGs, volatile organic compounds (VOCs), and air toxics emissions.

For the project to advance, DEP is required to file for a Title V Facility Air Permit modification from the New York State Department of Environmental Conservation (NYSDEC) for the operation of the proposed upgraded cogeneration plant. As part of the NYSDEC permitting process, DEP is actively soliciting community participation in the permit review process and invites all interested stakeholders to a Public Information Session on Thursday June 13, 2013 at 6:30PM at 583 Riverside Drive (at 135th Street) New York, New York 10031. DEP staff will present an overview of the project.

The following public information materials provide additional background on the project.

- [North River Cogeneration and Electrification Project Fact Sheet \(English/Spanish\)](#)
- [North River Cogeneration and Electrification Project Information Notice \(English\)](#)
- [North River Cogeneration and Electrification Project Information Notice \(Spanish\)](#)
- [Public Information Meeting Notice \(English/Spanish\)](#)
- [North River Cogeneration and Electrification Project Draft Public Participation Plan](#)
- [North River Cogeneration and Electrification Draft Environmental Justice Analysis](#)
- [North River Cogeneration and Electrification Project Title V Engineering Drawings](#)

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**Appendix D:  
Public Information Meeting Materials:**

- Summary of Questions/Comments & Responses from the June 13, 2013 Public Information Session & the May 8, 2013 Project Briefing at Manhattan CB9
- Public Information Session PowerPoint Presentation
- Public Information Session Sign-In Sheet



## Environmental Protection

Michael R. Bloomberg, Mayor  
Carter H. Strickland, Jr., Commissioner

### North River WWTP: Cogeneration & Electrification Project Public Information Session, CB9 Executive Committee Meeting (June 13, 2013)

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The following questions were raised at the Public Information Session held for the project at Broadway Housing–583 Riverside Drive (at 135th Street), New York, NY 10035–in conformance with the draft Public Participation Plan (PPP) prepared April 2013 for the New York State Department of Environmental Conservation (DEC) Title V Air Permit Modification. Invitations for this Public Information Session were mailed to the PPP contact list on May 29, 2013, and newspaper notices for the meeting appeared in the Columbia Spectator on May 22, 2013 and in El Diario/La Prensa on May 30, 2013. Members of the public and of the CB9 Executive Committee meeting were in attendance, where the project team gave a presentation about the North River Wastewater Treatment Plant (WWTP) Cogeneration and Electrification project.

The main concerns and questions stemmed predominantly from the audience members not being familiar with the various sewage treatment operations that occur at the North River WWTP plant, or how the WWTP works. They felt we should have better explained how the plant functions, wastewater is treated and what existing equipment is used in the process and then introduce the project. These concerns and questions were addressed during the presentation.

During and after the presentation, the following questions were raised:

**Question 1:** Can you please explain the cogeneration process, in a way that is easier to understand?

**Response:** Cogeneration, also known as combined heat and power, is a process that uses fuel (in the case of the proposed cogeneration equipment at the North River WWTP, a combination of natural gas and digester gas) to generate electrical power and heat. The power and heat generated can be used in various processes onsite at the North River WWTP. Onsite power generated by cogeneration is more efficient than purchasing power from the utility grid. The power grid traditionally produces power at 30-40 percent efficiency depending on the mix of fuel. Additionally, there are transmission losses which average about 5 percent of the power produced. The cogeneration plant can produce power at up to 80 percent efficiency with no significant transmission losses since the heat generated in the power generation process will displace heat generated by the boilers.

**Question 2:** What do the acronyms NO<sub>x</sub>, CO<sub>2</sub>, SO<sub>x</sub>, VOC, PM<sub>10</sub>, PM<sub>2.5</sub>, and GHG stand for?

**Response:** These acronyms were in the presentation and can be found in the project Fact Sheet, and are defined as follows:

- NO<sub>x</sub> = Oxides of nitrogen
- CO<sub>2</sub> = Carbon Dioxide gas
- SO<sub>x</sub> = Oxides of Sulfur
- VOC = Volatile Organic Compounds
- PM<sub>10</sub> = Particulate matter that is 10 microns in diameter or less
- PM<sub>2.5</sub> = Particulate matter that is 2.5 microns in diameter or less
- GHG = Greenhouse Gas (i.e., gasses that trap heat in the atmosphere)

GHGs relevant to this plant include carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), and water vapor (H<sub>2</sub>O).

**Question 3:** Please explain the bar charts in the presentation. The bar charts were not easy to understand.

**Response:** The bar charts in the presentation depicted the comparison of the baseline amounts of different air pollutants emitted by fuel combustion at the North River WWTP before the project is implemented versus the amounts anticipated with the North River WWTPs' new cogeneration and electrification equipment in place, and the associated decreases in the various pollutant emissions that would result from the new equipment. In summary, all air emissions from the plant will be reduced.

The following reductions in pollutant emissions are anticipated as a result of implementing the proposed Cogeneration & Electrification project at the North River WWTP:

- NO<sub>x</sub> = emission reductions of approximately 64 percent;
- CO (Carbon Monoxide) = emission reductions of approximately 67 percent;
- VOC = emission reductions of approximately 68 percent;
- PM<sub>10</sub> = emission reductions of approximately 25 percent;
- PM<sub>2.5</sub> = emission reductions of approximately 44 percent; and
- GHG = emission reductions of approximately 27 to 49 percent.

**Question 4:** How do the digesters work?

**Response:** Wastewater is generated in the community and collected through a series of collection piping (sewers) and is treated at the plant through a series of treatment processes. The treatment process separates fats, oils, and grease (collectively known as residuals), grit (sand and other fine debris), and solids (sludge) from the liquid stream. The residuals and grit are sent to landfills. The liquid stream is further processed to remove harmful levels of pollutants before being discharged to a receiving water body. The sludge is sent to the digesters for processing. Digesters use anaerobic bacteria that process the sludge and convert a majority of the solids to methane gas, carbon dioxide, and other minor constituents. The digester gas will be used in the engines to generate power and the solids are removed from the site via boat to be dewatered and disposed of.

**Question 5:** How much energy of the plant is generated by digester gas?

**Response:** It is anticipated that approximately 1/3 of the gas used in the engines is from the digester gas. The remainder is from natural gas.

**Question 6:** What is done with the sludge that is produced by the North River WWTP? Where does the sludge go? By how much will the sludge disposal from WWTP be reduced?

**Response:** The sludge is collected at the North River WWTP. The sludge will continue to be removed from the North River WWTP by boat, for transfer to a DEP dewatering facility. A 10-20 percent reduction of solids in the sludge is anticipated.

**Question 7:** Does the North River WWTP have a dewatering system?

**Response:** No.

**Question 8:** How much digester gas is left after the cogeneration processes is done? Where does the remaining digester gas go?

**Response:** It is anticipated that under normal operating conditions, nearly all of the digester gas will be utilized. The small fraction of gas that cannot be used will be combusted in a flare.

**Question 9:** Can you describe how improved digestion will generate more gas?

**Response:** The digestion process utilizes bacteria to break down solids collected at the wastewater treatment plant in much the same way that the bacteria in our stomachs breakdown the food we eat. As the bacteria consume the sludge methane gas is produced. Improved control of the temperature and mixing of sludge during the digestion process helps the bacteria do their job and in turn produce more gas.

**Question 10:** What types of gas is released into the stacks?

**Response:** Gas is combusted prior to entering the stacks. What is left over is mainly biogenic carbon dioxide (that is, carbon dioxide produced by living organisms) and heat along with a small percentage of uncombusted material. Further permit information can be found on the New York State Department of Conservation (DEC) website ([www.dec.ny.gov](http://www.dec.ny.gov)).

**Question 11:** Explain Tri-fuel and Dual fuel engines?

**Response:** Tri-fuel engines are designed to operate on three types of fuel. The existing tri-fuel engines at the North River WWTP can be run on #2 fuel oil, natural gas, and digester gas. The existing tri-fuel engines require the use of #2 fuel oil at all times. The proposed dual fuel engines would run on either natural gas and/or digester gas, eliminating the use of fuel oil for these engines.

**Question 12:** Are these special engines?

**Response:** The engines are spark-ignited, natural gas reciprocating engines that are typically used at power generating facilities.

**Question 13:** What impact will the increased use of natural gas have on the gas delivery system? In particular, will construction in the community streets be required?

**Response:** The existing gas delivery system has sufficient capacity to meet the needs of the plant. No additional work on the delivery system is anticipated.

**Question 14:** Will the plant operation/production stop or slow down as a result of the engine replacement? Will there be any Interruptions?

**Response:** No. The plant will continue to operate without interruption. The replacement of the existing equipment with the new equipment will be done in stages, one engine at a time, to insure uninterrupted operation of the North River WWTP. The replacement of the existing engines would also not result in any decrease in capacity of the North River WWTP.

**Question 15:** Will the effluent change due do the replacement of engines?

**Response:** No. The effluent from the North River WWTP will continue to operate within the existing permitted discharge limits.

**Question 16:** Will our waterways (Hudson River) be affected?

**Response:** The improvements to the North River WWTP will not affect the discharges from the plant. They will remain the same as they are now; the effluent limits will stay the same with the proposed project.

**Question 17:** Is this project overseen by State or Federal agencies?

**Response:** Yes, wastewater treatment plants are governed by the Clean Water Act and the Clean Air Act, which is administered by the U.S. Environmental Protection Agency. In New York, enforcement authority has been delegated to the DEC.

**Question 18:** Explain the Title V permit.

**Response:** The Title V Air Permit is issued by the DEC for the operation of the North River WWTP's engines and other equipment, to regulate and establish limits on the air emissions from the plant.

**Question 19:** Did this project occur because of the fire which occurred at the North River WWTP last year?

**Response:** No. The feasibility study was underway when the fire occurred.

**Question 20:** Is Con Edison ready to meet and work with this new cogeneration and electrification project?

**Response:** Yes, we regularly meet with Con Edison to discuss the project.

**Question 21:** Is Con Edison upgrading to a similar system, are they also converting to natural gas? Using it to generate power as well?

**Response:** Con Edison does not generate electricity. Their primary operation is the delivery of energy to customer's homes and/or businesses. For those customer's that buy electricity from Con Ed, Con Ed purchases that electricity from generators on behalf of their customers.

**Question 22:** How will it affect the Riverbank State Park?

**Response:** Currently, the Riverbank State Park's and the North River WWTP's electrical system is tied together in such a way that certain maintenance activities by either party can cause interruption to the other's service. This project will separate that service so one parties maintenance activities has no effect on the others.

**Question 23:** Will the Park have similar improvements?

**Response:** All work is anticipated in the North River WWTP. There is no work anticipated in the park.

**Question 24:** Where will the old/existing engines go after replacement? Will they be discarded to Landfill?

**Response:** Disposal of the old engines would typically be the responsibility of the Contractor that would be removing them and installing the new engines. Typically this would include the remediation of any hazardous materials associated with the engines) and if there is a salvage value, the contractor would recover that money. Any salvage value recovered by the Contractor would be included in the bid price for the work. They will be dismantled and removed from the WWTP. No specific reuse plans for the components of the engines has been identified at this time. It is anticipated that these materials, which are predominantly metal, would be recycled. It is not anticipated that the engines would go to a landfill.

**Question 25:** Could the old/existing engines be donated to the Board or to the community (for use in art projects, or as industrial art)?

**Response:** As stated in the response to Question 24, the existing engines will become the property and the responsibility of the Construction Contractor, with the residual salvage value of the engines used to offset part of the cost of the project. However, the Community may submit a Cultural Reuse plan that addresses among other things:

- end use purpose,
- location and agreement with property owner for siting,
- insurance,
- funding for decontamination, relocation and on-going care.

The plan would need to be approved by the DEP, the Department of Citywide Administrative Services, the Mayor's Office of Cultural Resources and the Comptroller. The plan would need to be submitted and approved prior to the construction contract being bid (12/2014).

**Question 26:** Will there be a follow up presentation, informational meeting to the other Board # 9 Members?

**Response:** After the project is fully designed and if the Community Board requests an update DEP would be pleased to participate in another meeting. \*



**Environmental and Planning Consultants**

440 Park Avenue South  
7th Floor  
New York, NY 10016  
tel: 212 696-0670  
fax: 212 213-3191  
[www.akrf.com](http://www.akrf.com)

## Memorandum

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**To:** Project File – North River WWTP Cogeneration & Electrification Project  
**From:** Stephen James Holley, Vice President  
**Date:** May 31, 2013  
**Re:** North River WWTP: Cogeneration & Electrification Project Title V Permit Modification – Questions Raised at CB9 Health & Environment Committee Meeting (May 8, 2013)  
**cc:** Frank Giardina, James Lauria, Anthony Fiore, Shane Ojar, Humberto Galarza (DEP); Fred Kincheloe (Savin Engineers); Michael S. Johnson (BV); Ray Li (AKRF)

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The following questions/issues were raised at the Manhattan CB 9 Health and Environment Committee meeting the DEP project team attended on May 8th, where we gave the committee a project briefing.

There were 6-7 members of the committee and public present in addition to our project team, and the meeting was led by Mr. Jamaal Nelson, the Committee Chair.

During and after the briefing, the following questions were raised:

**Question:** The project will reduce sludge disposal, by how much will it be reduced?

**Response:** A reduction of between 10-20% is anticipated.

**Question:** If the plant has 10 engines now, why will there be five fewer after the project is completed? Will there be any service interruptions?

**Response:** The new engines are more efficient. There will be no service interruption as the project is constructed as the old engines will be taken off line one at a time and the new engines will be put into service one at a time. There will also be temporary back-up generators to ensure no service interruptions.

**Question:** How will the heat captured on site be used?

**Response:** It will be used to provide process heat for the digesters and also for heat for the building.

**Question:** Will there be any environmental impacts on short nosed sturgeon?

**Response:** No, the effluent limits will stay the same with the proposed project.

**Question:** Will the construction on the lower roadway, related to the park electrical separation work, have any effect on Riverbank Park?

**Response:** No, all of this work would occur within DEP property, within the plant fence line. There would be no impact to the Riverbank State Park, or to the bike path or Soccer field. (ConEd is evaluating where the line will go.)

**Question:** Can locating the substation under the highway be considered?

**Response:** The DEP continues to evaluate the location of the substation required for Riverbank State Park Feeder separation. .

**Question:** Who is the Deputy Mayor of DEP that coordinates with the Parks Department?

**Response:** Deputy Mayor Calloway

**Question:** Who can CB 9 coordinate with if there are any follow-up questions?

**Response:** Shane Ojar, of the DEP. (Contact information is provided on the Project Notice and Fact Sheet.)

**Question:** Will the plant use only digester gas? Is natural gas a “back-up” fuel source?

**Response:** No. The plant will use an greater amount of digester gas than it does now, and will also use natural gas to fuel the new engines. The use of fuel oil for the engines will be eliminated.

**Question:** Is fire separation of the new engines being considered?

**Response:** We are evaluating fire protection measures, in coordination with the FDNY for the new cogeneration engines.

**Question:** Will there be physical separation?

**Response:** We are evaluating fire protection measures, in coordination with the FDNY for the new cogeneration engines.



# North River Wastewater Treatment Plant (WWTP) Cogeneration & Electrification Project

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## **Project Information Session**

**June 13, 2013**

Manhattan Community Board 9

Executive Committee Meeting

# North River WWTP Existing Plant Overview

- ❖ Existing primary and secondary treatment facility serving 550,000 customers on Manhattan west side
- ❖ The 10 existing engines used to power process pumps and blowers are nearing the end of their useful life requiring major overhaul or replacement
- ❖ Sludge from treatment processes are stabilized in digesters to generate biogas for use as fuel for the WWTP engines



- ❖ Replace 10 existing pump and blower engines with 5 new dual fuel (natural gas and digester gas) cogeneration engines and electric motors
- ❖ New engines reduce emissions, further controlled with oxidation catalyst
- ❖ New engines exhausting through existing engine stacks
- ❖ Improve Digester efficiency by installing new equipment
- ❖ Use digester gas as renewable fuel to power the engines
- ❖ Modifications and upgrades to the WWTP electrical distribution system

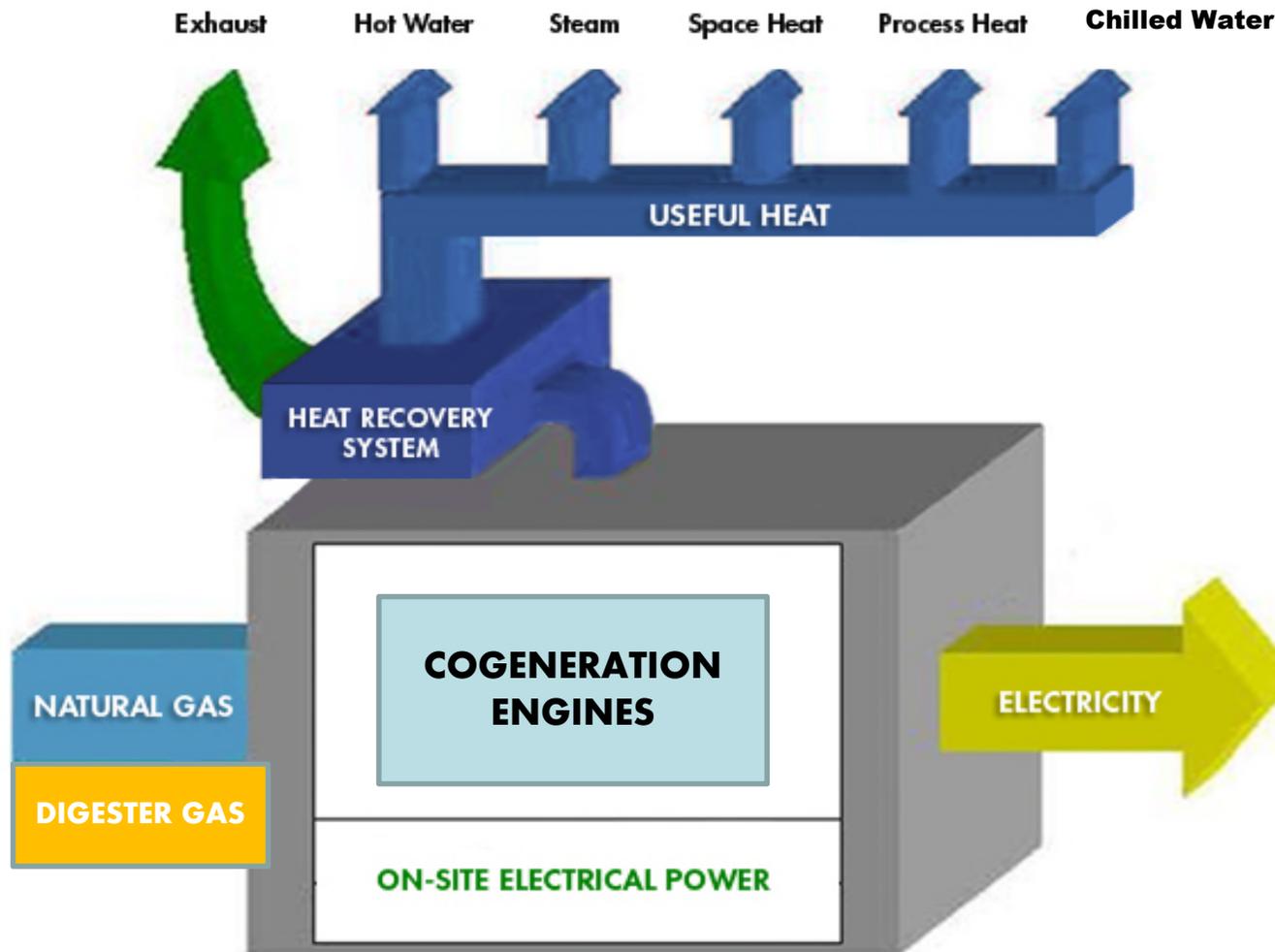


**Engine Room Rendering:  
New Engine Generators and Blowers**

- ❖ Construction occurring mainly indoors in existing engine room.
- ❖ Outdoor construction related to providing separate electrical feed to Riverbank State Park to provide reliable power.
- ❖ New engines and motors will be installed one at a time to maintain reliable operation of the WWTP.
- ❖ To provide emergency back-up power, temporary generators will be installed to supplement existing generators during construction.
- ❖ All back-up generators will be removed once the cogeneration engines are operational.

# What is Cogeneration?

A process that produces electricity and useful heat from a fuel source.



- ❖ Reduce air emissions, greenhouse gases (GHG), and improve local air quality
- ❖ Reduce load on local Electrical Grid
- ❖ Improve plant reliability
- ❖ Greatly reduce fuel oil storage and truck deliveries
- ❖ Improve energy efficiency/reduce energy costs
- ❖ Promote Mayor Bloomberg's PlaNYC and DEP's Strategic Plan goals.

## *North River Cogeneration Project Meets these 4 Initiatives*

### AIR QUALITY

 INITIATIVE 9



INITIATIVE 9

**Capture the air quality benefits of our energy plan**

Reduction in greenhouse gas (GHG) emissions and criteria pollutants, such as NOx and particulate matter, improving public health

### ENERGY

 INITIATIVE 2



INITIATIVE 2

**Reduce energy consumption by City government**

Higher efficiency equipment being installed to improve efficiency

 INITIATIVE 9



INITIATIVE 9

**Expand Clean Distributed Generation ("Clean DG")**

15 MW of clean heat and power added

 INITIATIVE 12



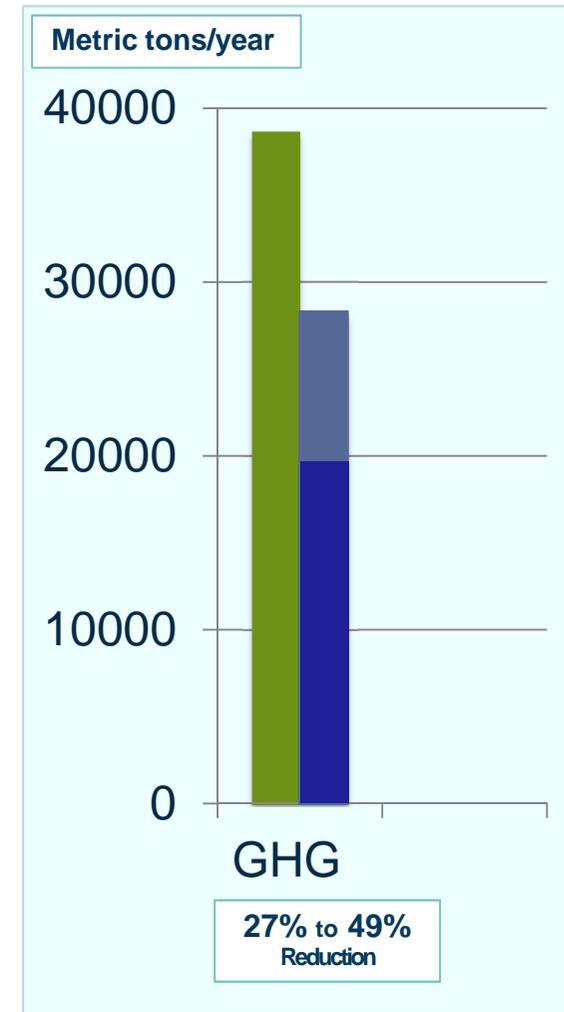
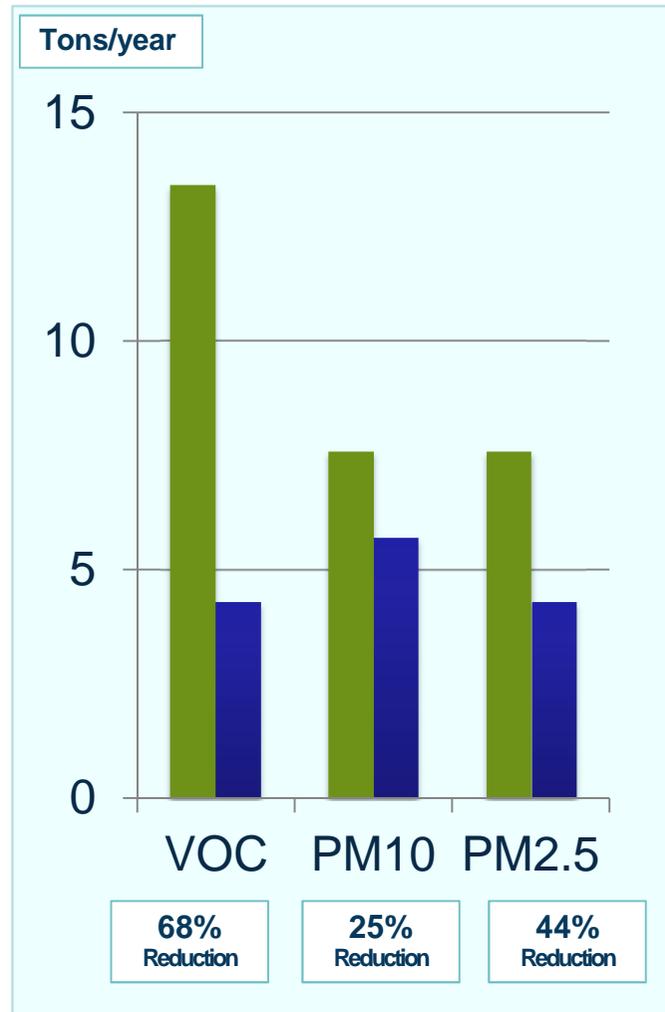
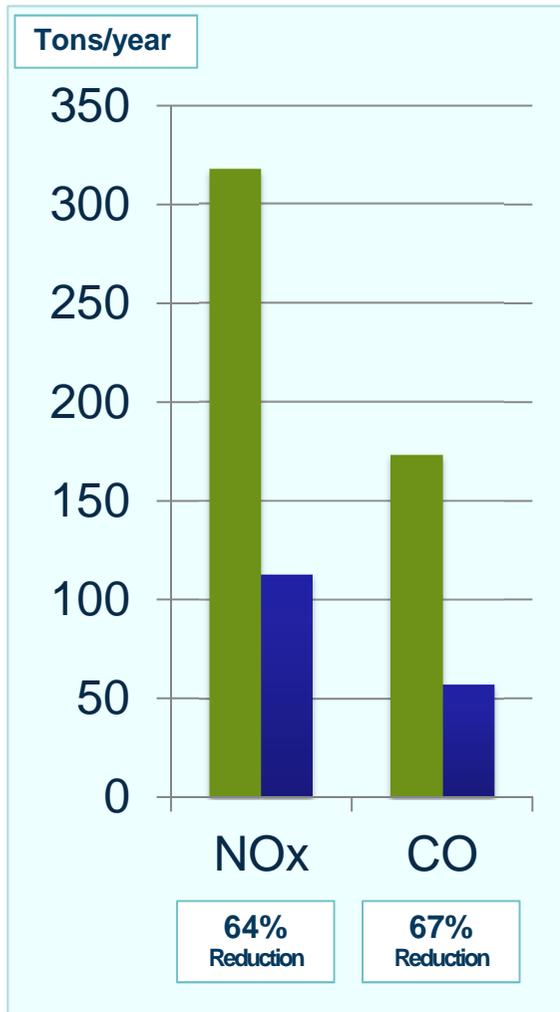
INITIATIVE 12

**Accelerate reliability improvements to the city's grid**

Free up capacity to reduce load during times of high community usage to help prevent brownouts and blackouts

- ❖ New plant will meet or exceed federal, state and city air quality regulations and requirements
  - Reduction in GHG of approximately 27 to 49 % from existing
  - Reduction in emissions of NO<sub>x</sub>, CO, VOCs, and particulate matter (PM)
- ❖ Eliminate fuel oil use for plant engines resulting in lower emissions
- ❖ Digester improvements maximize production of digester gas reducing utility energy required
- ❖ New engines will combust nearly all of plant digester gas
- ❖ Pretreatment of digester gas fuel used in the new engines will remove fuel impurities and reduce air emissions

# Anticipated Reduced Emissions



- ❖ Improves overall plant system reliability for power access and distribution
- ❖ Improves plant operability and maintainability
- ❖ Removes significant fuel oil storage to improve site safety
- ❖ Improves digester gas production

- ❖ Title V air permit modification is currently being reviewed by the NYSDEC
- ❖ City Environmental Quality Review (CEQR) is underway with the DEP as the lead agency

## Project Schedule

- ❖ Advance Construction Contracts  
Construction Start **Mid- 2014**
- ❖ Cogeneration & Electrification Contract  
Construction Start **Late 2015**
- ❖ Construction Substantial Completion **Mid- 2019**

## Benefits of the North River Cogeneration & Electrification Project

### ❖ Environmental

- *Annual Reductions of GHGs, NO<sub>x</sub>, CO, VOCs, & particulate emissions*
- *Reduced truck traffic from fuel deliveries*

### ❖ Operational

- *Elimination of Fuel Oil use*
- *Increased use of Digester Gas*
- *Increased Reliability and Flexibility*
  - *Plant can operate on combination of digester gas/natural gas and electricity*
- *Frees electrical supply capacity on local distribution system and helps prevent brownouts and blackouts during times of high consumption in the local community*

***Consistent with & Complements Mayor's PlaNYC & DEP's Strategic Plan***

Project documents are available for public review, including the following :

- ❖ Project Fact Sheet
- ❖ Project Information Notice
- ❖ Title V Permit Modification Application
- ❖ Draft Environmental Justice Analysis
- ❖ Draft Public Participation Plan
- ❖ Limited Project Engineering Drawings (Drafts)

❖ The project documents are all available at the following Document Repository locations:

➤ **NEW YORK PUBLIC LIBRARY—HAMILTON GRANGE LIBRARY**

503 West 145th Street (at Amsterdam Avenue)

New York, NY 10031

Phone: 212-926-2147

➤ **NEW YORK PUBLIC LIBRARY—GEORGE BRUCE LIBRARY**

518 West 125th Street (at Amsterdam Avenue)

New York, NY 10027-3407

Phone: 212-662-9727

➤ **COMMUNITY BOARD OFFICE**

Manhattan Community Board #9

16-18 Old Broadway

New York, NY 10027

Phone: 212-864-6200

➤ **On-Line at DEP Website:**

[http://www.nyc.gov/html/dep/html/dep\\_projects/north\\_river\\_cogeneration.shtml](http://www.nyc.gov/html/dep/html/dep_projects/north_river_cogeneration.shtml)

❖ After this meeting, if you have questions about this Project, or to submit comments on the Permit Application, please contact:

➤ Shane Ojar, Director, Community Partnerships

NYC DEP

59-17 Junction Boulevard

Flushing, NY, 11373

Telephone: **718-595-4148**

Email: [sojar@dep.nyc.gov](mailto:sojar@dep.nyc.gov)



***Comments on the Permit Application will be accepted until June 28, 2013.***

North River WWTP Cogeneration & Electrification Project:  
Title V Air Permit Modification

PUBLIC INFORMATION SESSION (June 13, 2013)

MEETING PARTICIPANT SIGN-IN SHEET

Name/Nombre	Affiliation/Afiliación (Resident/Organization) (Residente/Organización)	Address/Dirección	E-Mail Address/ Dirección de Correo Electrónico	Phone/Telefono
T. JACKSON	CB9 Board Member	16-18 Old Broadway, NY, NY		
J. P. ...	CB9 Board Member	"	jourcead@b@gmail.com	
Arnold Boatner BRNESTINE WELCH	CB9		arnoldboatner@yahoo.com	
Nyde Chin	NYP Hospital CB9	177 Ft. Washington Ave, NY, NY 10032	nyde.chin@nyu.edu	
Theresa Kravoff	CB9	454 RSD	Therakr@optonline.net	
James Nelson	CD9			
Anthony Fletch	CB9			
Charles Simpson	CB9	605A Netherland R. NY 10003	CLS547@msn.com	
Javier Paez	CB9	18 Old B. Way	JAVIER.CB9@GMAIL.COM	
Shirley Thompson	CB9	16-18 Old B. Way	CINNAMONBUNDS203@aol.com	
Dr. Marshall	CB9	16-18 Old B. Way	Ramburo@b.com	
Lex Morgan-Thomas	CB9 Chair	16-18 Old B. Way	gmthomas19@gmail.com	
Don Williamson	NEECS		rdwilliams@neeecs.com	
Winston Mayall	CB9	16-18 Old B. Way	BLAKEMORE@EPPAC.ohstate.edu	
SHANE OJAR	DEP			
FRANK GIARDINA	DEP		FGIARDINA@DEP.NY.GOV	
FRANK KUNCHIKOFF	SAVIN		FRANK@KUNCHIKOFF.COM	
Humberto Galera	NYC DEP	118-595-3504	hgalarza@dep.ny.gov	