



Reimagining the Metropolis: Visions for a Near Future

Pratt Institute - Manhattan Campus

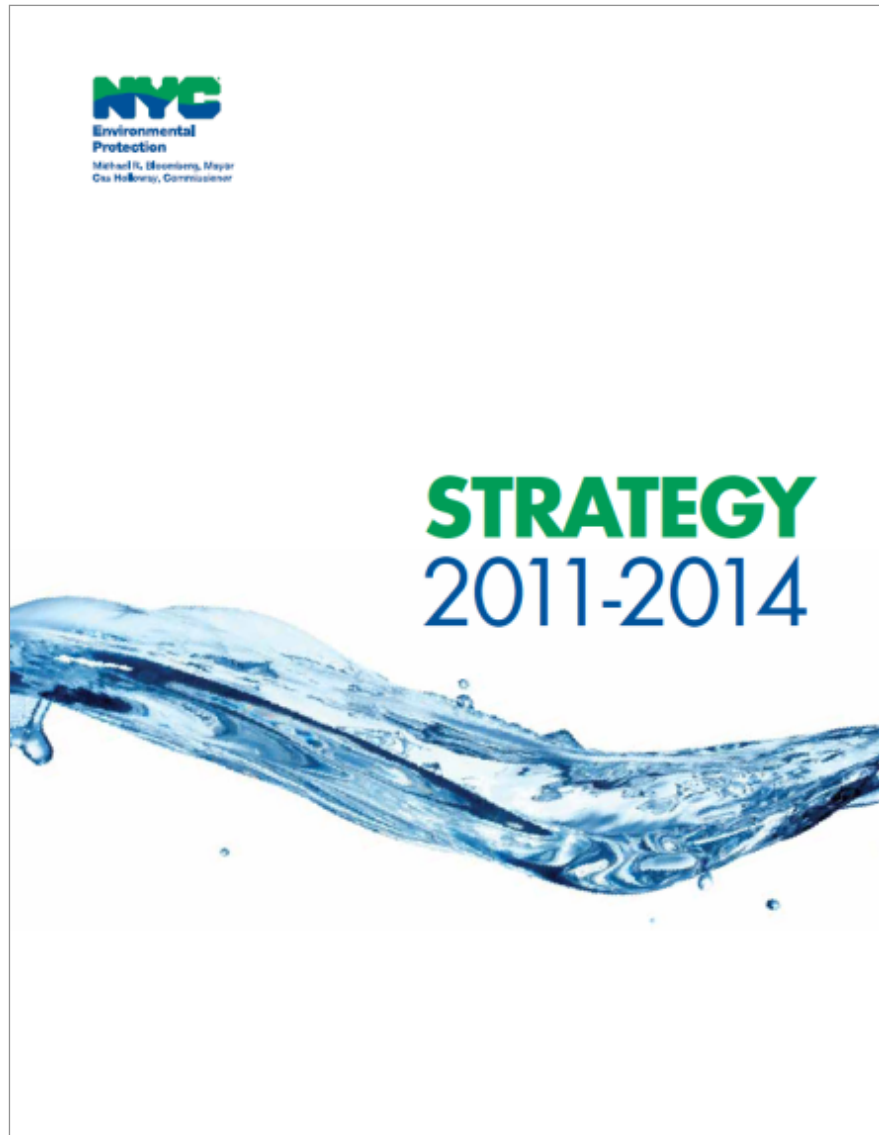
April 26, 2011



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Updated April 2011

Strategic Plan: 100 Goals and Initiatives

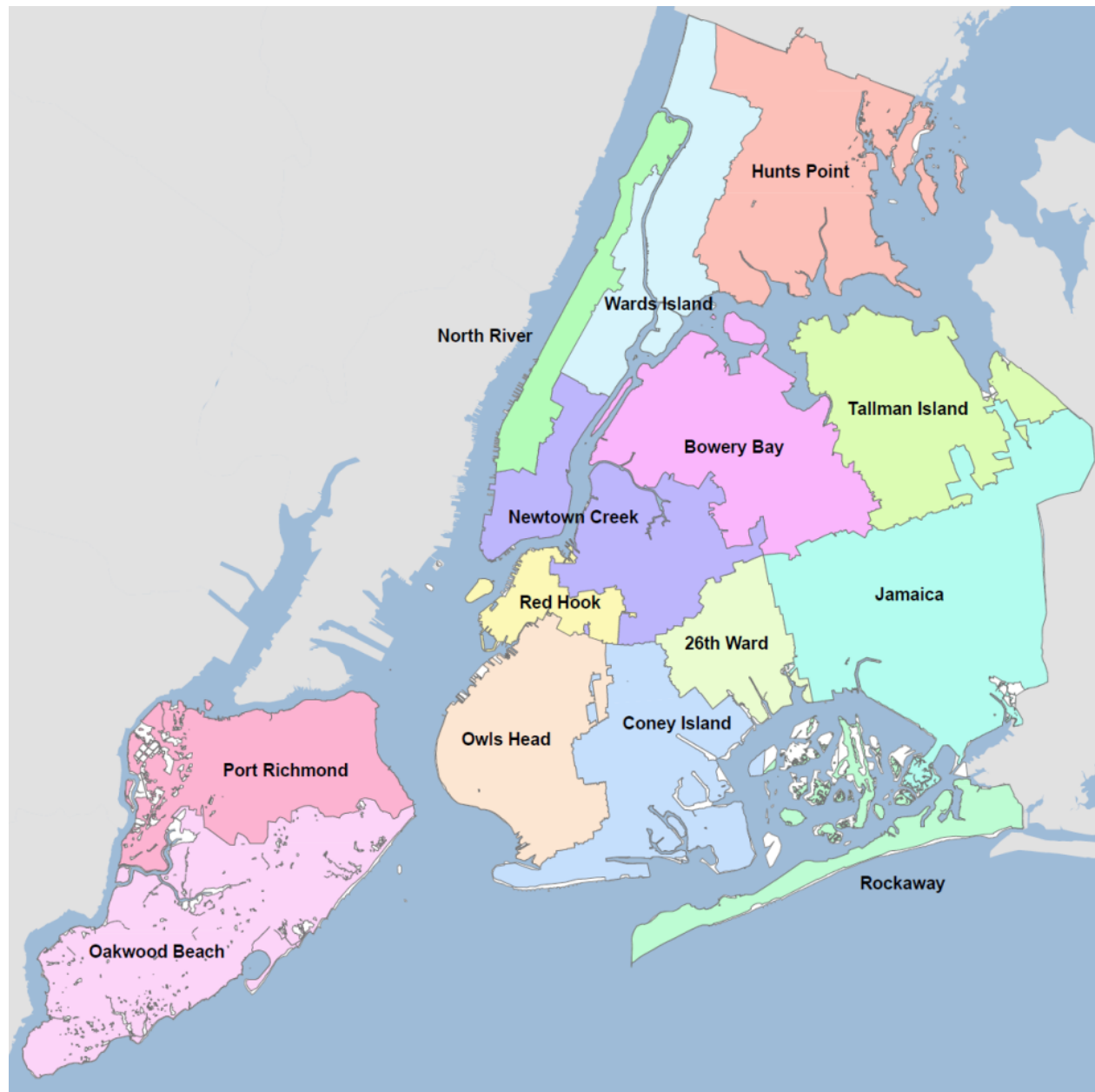


- Provide effective and responsive customer service
- Operate a safe, high-performing water utility at the lowest possible cost
- Make cost-effective capital investments
- Achieve a sustainable quality of life for all New Yorkers

New York City Water Supply



New York City Wastewater Treatment Plants



Infrastructure Projects



City Water Tunnel No. 3



Croton Water Filtration Plant

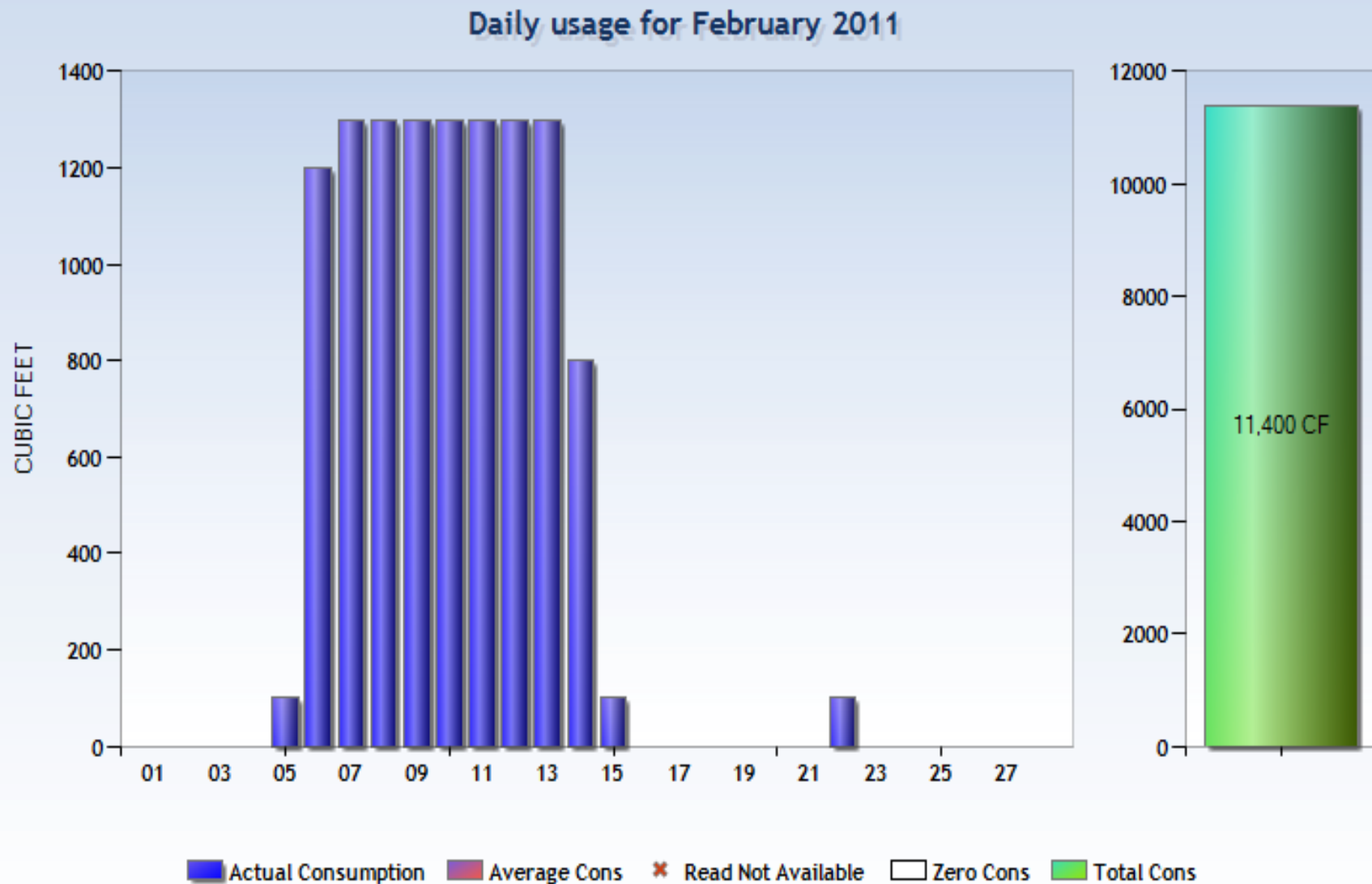


Catskill/Delaware UV Disinfection Facility



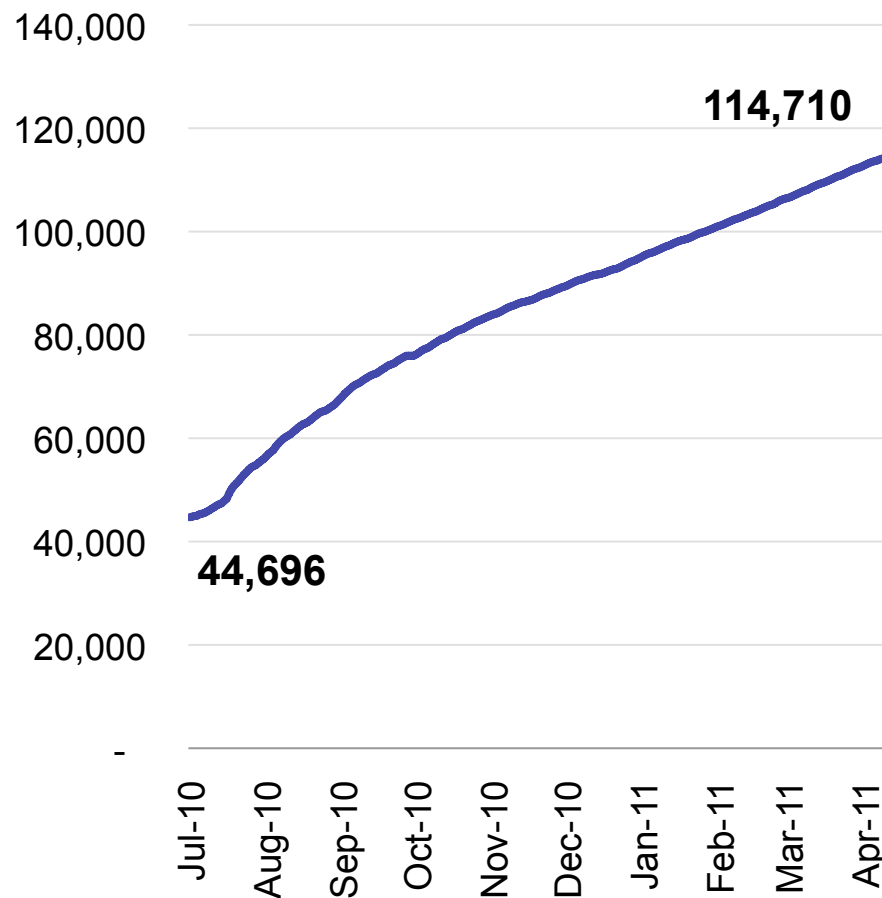
Newtown Creek Wastewater Treatment Plant

Near Real-Time Leak Notification

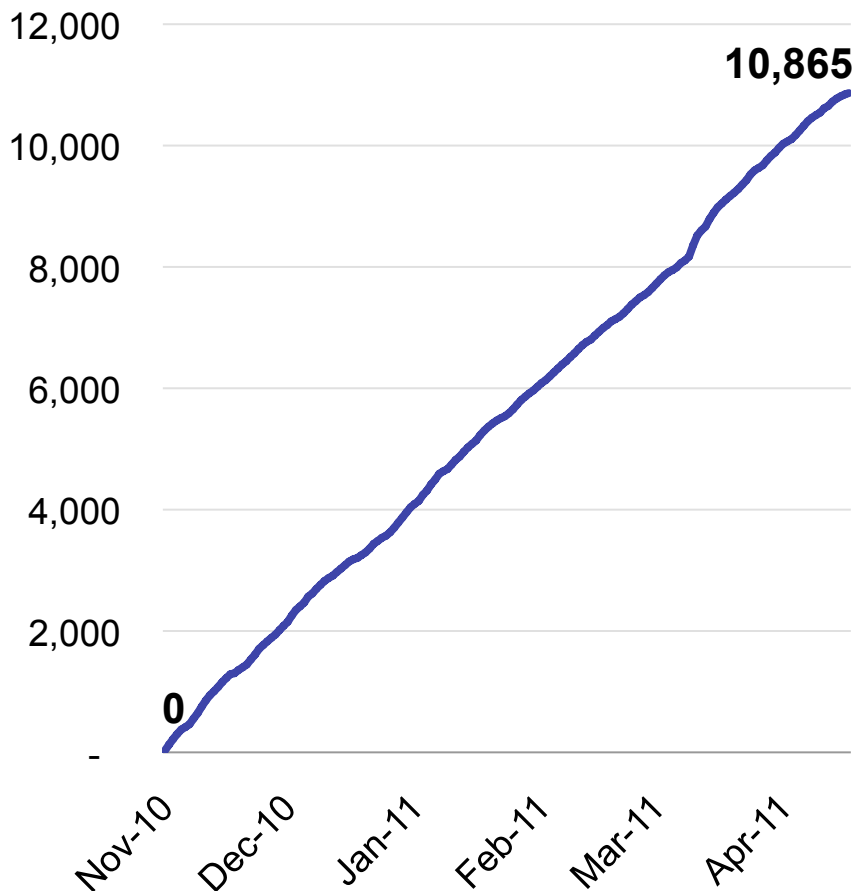


Moving Toward Web-Based, Paperless Systems

"My DEP Account" Total User Enrollment



Paperless Billing Total User Enrollment



Data as of April 24, 2011

NYC Green Infrastructure Plan



1. Build cost-effective grey infrastructure
2. Optimize the existing wastewater system
3. Control runoff from 10% of impervious surfaces through green infrastructure and other source controls
 - Many opportunities in roads and sidewalks, rooftops and new development
 - Modular, scalable, and adaptable
 - Targeted to specific watersheds
4. Institutionalize adaptive management, model impacts, measure CSOs, and monitor water quality
5. Sustain stakeholder engagement

Portfolio for Water as a Waste and a Resource



Paerdegat Detention Facility



Staten Island Bluebelt



Catch Basins



Stormwater Tree Pit

Additional Benefits of Green Infrastructure

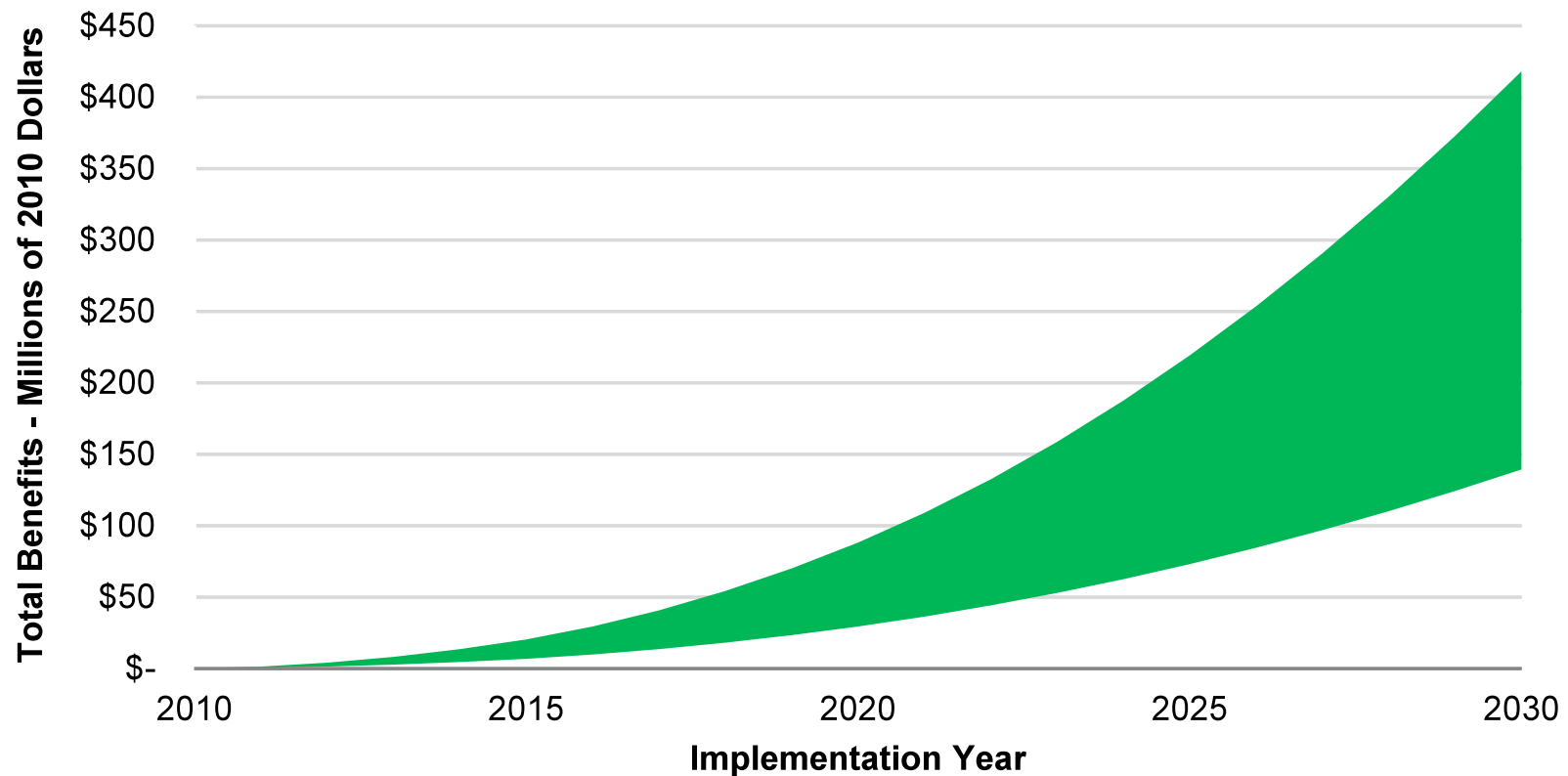


Annual benefits of green infrastructure per acre

Reduced energy demand:	\$5,513
Increased property value:	\$4,725
Improved air quality:	\$759
Reduced carbon dioxide:	\$117

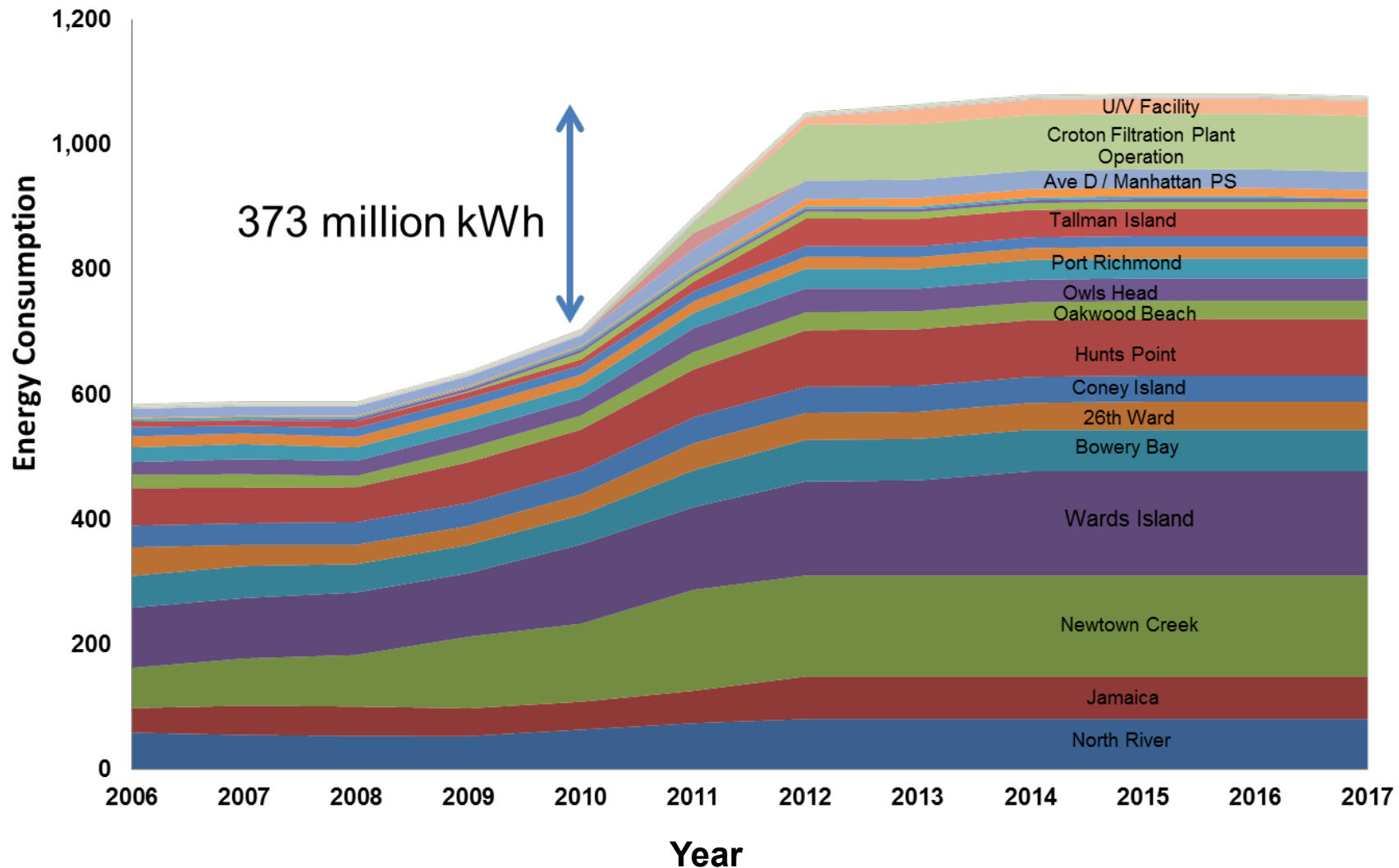
Acres of planted green infrastructure in 2030

25% planted green infrastructure	1,085 acres
75% planted green infrastructure	3,255 acres



DEP Energy Consumption Projections

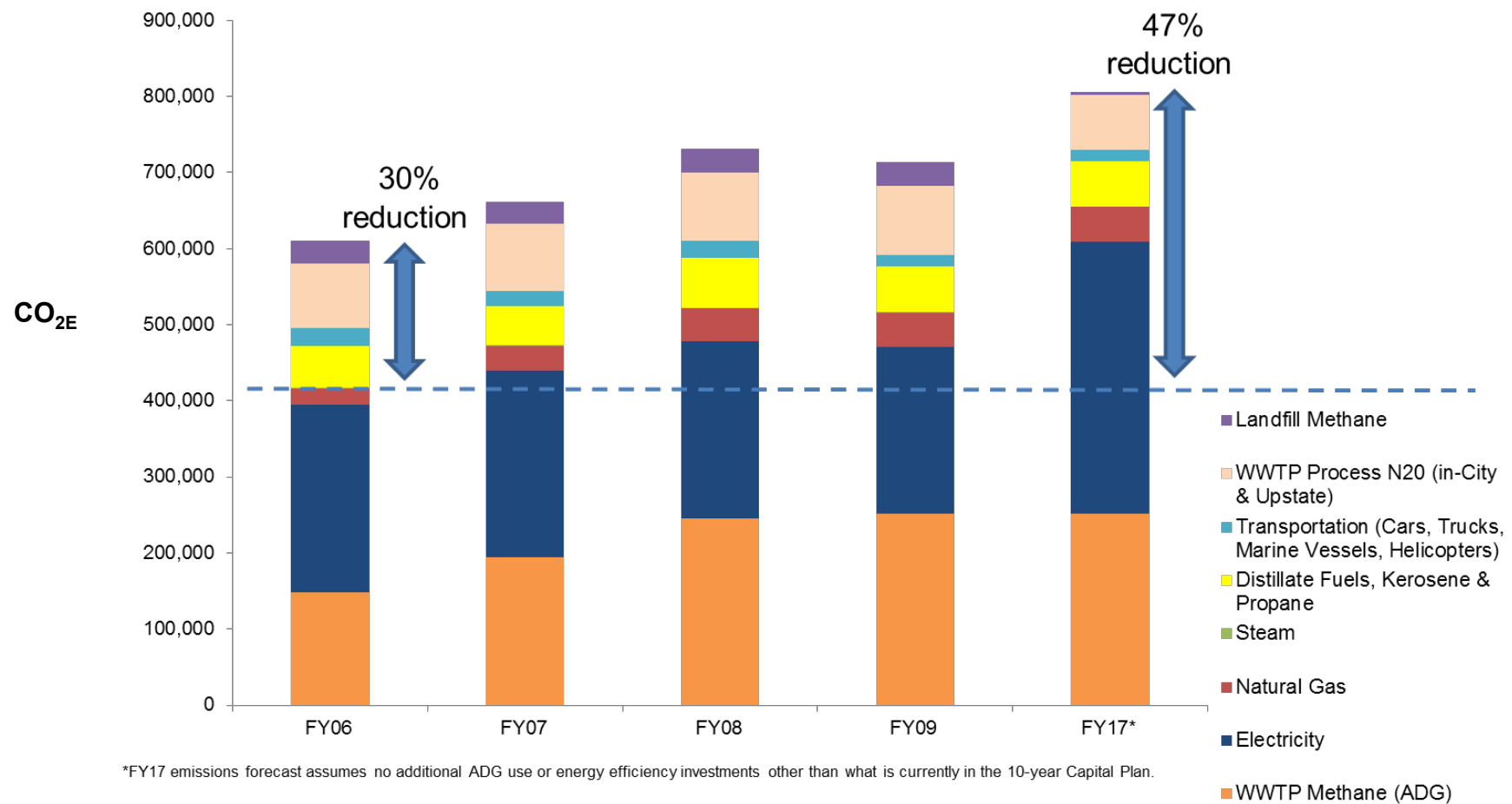
- DEP energy costs expected to almost double within 5 years due to 53% demand growth and double-digit rate increase due to New York Power Authority cost of service



Greenhouse Gas Emissions

- Electricity demand growth drives GHG strategy: a 30% GHG reduction target becomes an effective 47% reduction
- Electricity outlook is crucial for capital investment strategy

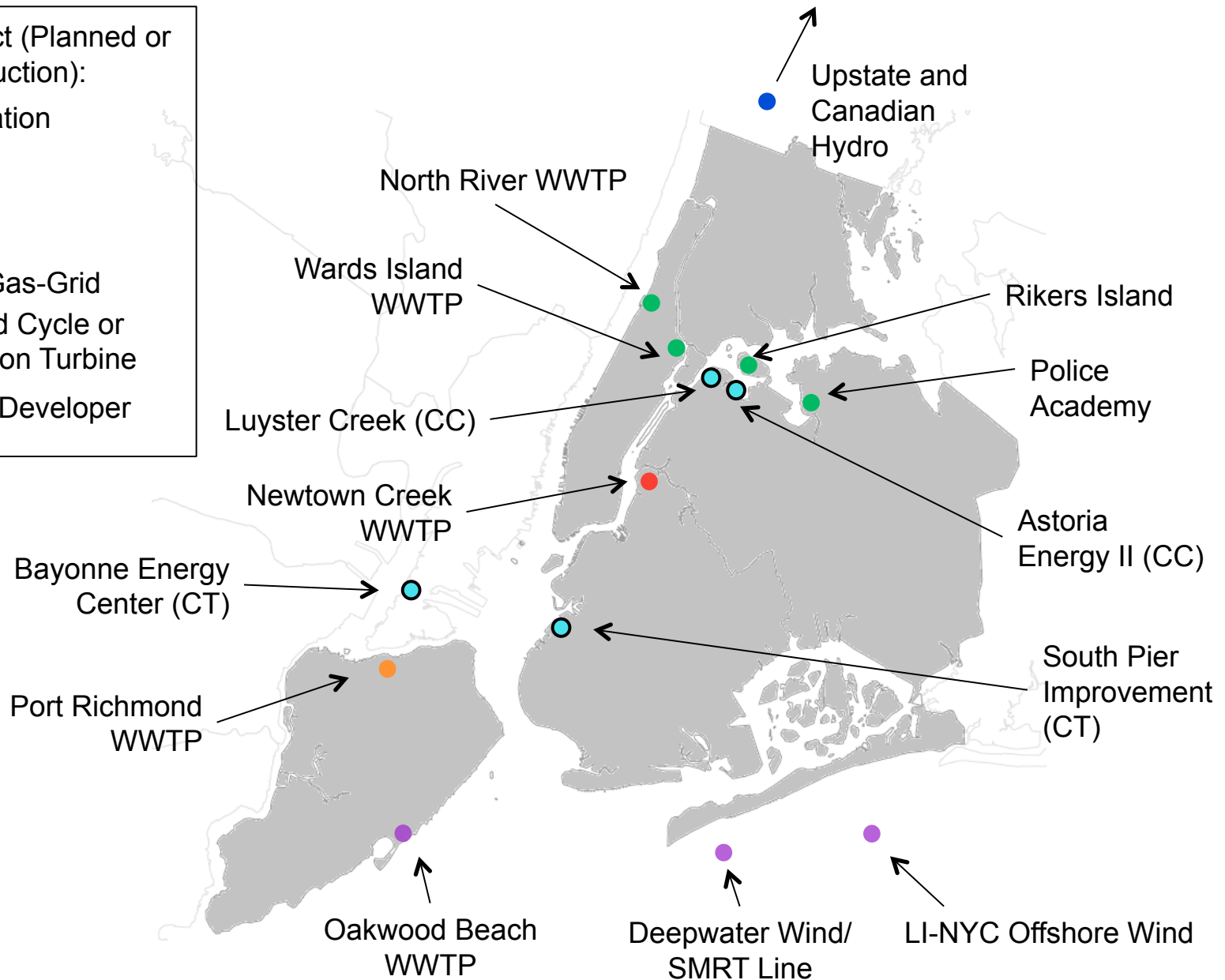
GHG Emissions Profile



Energy Supply Projects

Type of Project (Planned or Under Construction):

- Cogeneration
- Solar
- Hydro
- Wind
- ADG-to-Gas-Grid
- Combined Cycle or Combustion Turbine
- 3rd Party Developer





For more information visit www.nyc.gov/dep

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