

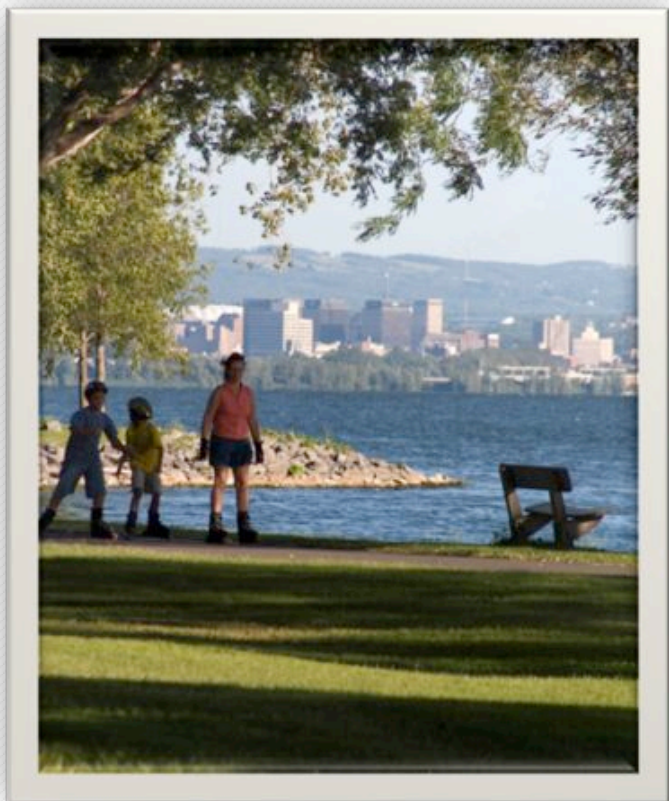
# The New York State Environmental Facilities Corporation



## **Environmental Finance Center- Technical Assistance Partnership Forum**

Syracuse Center of Excellence  
March 22, 2012

# New York's Water Infrastructure



- Backbone of our Communities
- Retains Business and Industry
- Foundation of Economic Development
- Protects Water Resources
- Provides Better Place to Live and Play



# NYS Environmental Facilities Corporation

*Providing Low-cost Financing and Technical Assistance to Municipalities, Businesses, and NY State Agencies for Environmental Projects*



- Over \$13 billion in assets
- More than \$15 billion in low-cost financing and grants since 1990



# Across New York State, traditional storm water systems are at or near capacity...

- Stormwater runoff can overwhelm existing systems, leading to pollution of waterways



# EFC' s Green Innovation Grant Program (GIGP)

- Provides seed money for projects that spur green innovation, build green capacity and facilitate technology transfer
- Highly competitive, award-winning grant program (2009 PISCES Award from U.S. EPA)
- Almost \$80 million allocated to more than 100 green projects across the state





# GIGP Goals and Objectives

- Protect and improve water quality
- Spur innovation
- Build green capacity - locally and beyond
- Facilitate the transfer of new technologies and practices to other areas of the state



# GIGP: Eligible Applicants

Any corporation which is organized and existing under the laws of the State of New York which is empowered to develop a project

- Municipality
- School district\*
- Soil and water conservation district\*
- Not-for-profit
- Partnership
- Association



\* Only eligible for GIGP Grants under existing State laws.



# GIGP : First Three Rounds

**ARRA FFY ' 09: \$44.3 Million – Leveraged \$65 Million**

- 49 projects: 35 Clean Water; 14 Drinking Water

**GIGP 2 FFY 2010 funding: \$15 million – Leveraged \$57 Million**

- 40 projects selected – all Clean Water

**GIGP 3 FFY 2011 funding: \$20 Million**

- 27 Green Stormwater projects
- Used the state's new Consolidated Funding Application (CFA)





# Nearly \$5 million in GIGP funding for 11 projects in Onondaga County

- Green roofs at SUNY ESF and St. Joseph's Hospital
- Downspout Disconnection Program Along Rt. 690
- Westcott Reservoir Turbine/Solar Energy Project
- Increasing Sustainability of the Cleanwater Educational Research Facility, Minoa
- War Memorial Arena Rainwater Reuse System
- Mathews Avenue Stormwater Filtration System
- SyracuseCoE Green Streets
- East Syracuse Roof Drain / Sump Pump Relocation
- Rain barrels in Harbor Brook Sewershed

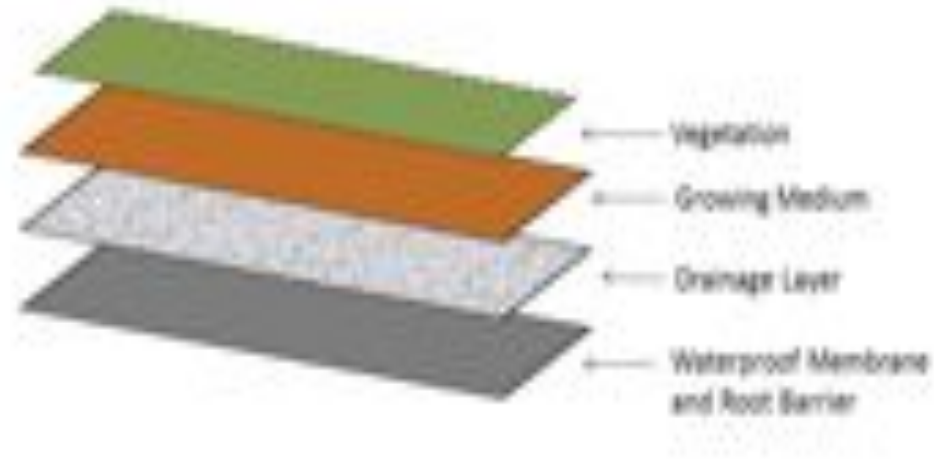


# Westcott Reservoir



- **Microturbine System**
  - 3<sup>rd</sup> largest water tanks in the world
  - Built to generate 438,000 kWh of electricity annually
- **Solar Photovoltaic System** expected to produce 56,000 kWh of power annually
- **Nearly “off-the-grid”** The energy generated from the new systems will allow the facility to operate almost entirely on its own power





St. Joseph's Hospital Health Center

# Green Roofs



NYS Environmental Facilities Corporation

March 22, 2012





Peter Ward, director of Lindenhurst library, calls new lot "amazing."

## Despite rain, library's parking lot flood-free

BY JENNIFER SMITH  
[jennifer.smith@newsday.com](mailto:jennifer.smith@newsday.com)

The rain sloshing down on Long Island yesterday flooded roads and turned driveways into lakes.

But no water pooled in the new lot at Lindenhurst Memorial Library — even during the worst of the storm.

The parking lot is made of permeable paving stones atop a bed of absorbent gravel that soaks up excess water that would otherwise eventually end up in the Great South Bay. The lot was built last summer with the help of \$200,000 in federal stimulus money.

"It's amazing the way this thing sucks up water," said Peter Ward, the library's director. "Every time it rains like this I always check the parking lot."

It may be the first parking

**NOW ONLINE**  
Watch director of Lindenhurst library talk about the library's sustainable parking lot:  
[newsday.com/li](http://newsday.com/li)

lot of its kind on Long Island. Nassau and Suffolk plan to build similar test sites this spring at county facilities.

It's one of the newer approaches to dealing with storm water runoff, which environmental officials say is one of the biggest pollution problems facing U.S. waters today.

Storm water is a particular problem along densely populated stretches of the South Shore, where pavement has replaced open space and storm sewers funnel rainwater to creeks and

estuaries. Excess water that would normally be soaked up by Long Island's sandy soils washes off roads and construction sites, picking up contaminants along the way that can lead to beach closures and prevent safe shellfish harvesting.

At the Lindenhurst library lot, the permeable paving stones themselves absorb some water; more is drained through the gravel that surrounds them. Precipitation trickles down through three progressively finer grades of gravel that help filter out pollutants before the rainwater reaches the soil, according to Bob Retnauer of RDA Landscape Architects in St. James, which designed the lot.

"We already have a great natural resource that has been severely compromised by storm water," Ward said. "This parking lot shows an alternative that is, in some part, an answer to a long-standing problem."



# Village Hall Stormwater Retrofit – Greenwood Lake, N.Y.

## Before





# After

- **30% Impervious Surface Reduction**
- **2,180 Green Job hours**
- **Increased Community Aesthetics**
- **Education and Outreach**







**Bioretention**





## **Stream Daylighting- Saw Mill River Park Yonkers, NY**

- Centerpiece of \$18.5 Million Redevelopment
- Restores Habitat -4,000 sq ft Tidal Wetlands
- Increased Community Aesthetics
- Provides recreational and business development opportunities



# Stormwater Harvesting and Reuse



With a GIGP award of \$256,834, Onondaga County was able to provide rain barrels to homeowners and businesses in the Harbor Brook Sewershed.

Barrels will harvest stormwater runoff and mitigate runoff impacts on Onondaga Lake.



## GIGP Round 4



- The **Consolidated Funding Application (CFA)**-  
A single portal for state funding
- GIGP proposals will be evaluated by one of Governor Cuomo's 10 Regional Economic Development Councils





# Next up: GIGP Round 4

## ***Seeking Innovative Stormwater Projects Integrated with Regional Economic Plans***

- Stream daylighting
- Stormwater street trees or urban forestry programs
- Stormwater harvesting and reuse
- Construction/restoration of wetlands, floodplains, or riparian buffers
- Downspout disconnection
- Permeable pavement
- Bioretention / bioinfiltration
- Green roofs or green walls





<http://nyworks.ny.gov/>

CFA Application Process

CFA Workshop Materials

Available CFA Resources

Common CFA Q & A

March 22, 2012

# Governor Cuomo's Vision for 10 Regional Economic Councils



- Bringing citizens and organizations together in unique regional partnerships
- Spur collaboration between organizations that do not normally work together



# Lessons Learned from GIGP 3 and the First CFA Process

- Avoid “technical difficulties” with online process – avoid last-minute submission
- Be careful to submit all required attachments – feasibility study, map, conceptual site plan
- Coming soon from EFC: a must-have list for required attachments



# Lessons Learned / Challenges

- For a higher score: execute an effective outreach and education plan to local stakeholders & elected officials
- 20 percent additional score for projects selected by your regional council
- Merge your project with the goals and strategies outlined by your regional council





# EFC Moving Forward: NY Works Fund

## NY Works Fund/Infrastructure

1. Improve more than 100 bridges
2. Repair 2,000 miles of roads
3. Finance upgrades to 90 municipal water systems
4. Improve 48 state parks & historic sites
5. Repair 114 flood control projects

### 2. Economic Development



# The New York State Environmental Facilities Corporation



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***Financing for a Sustainable Future***

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