

US EPA ARCHIVE DOCUMENT

# Financing Green Infrastructure through the NJ Environmental Infrastructure Financing Program

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# What does the CWSRF consider to be Green Projects?

- Green Stormwater Infrastructure: Includes a wide array of practices that maintain and restore natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater
- Water Efficiency: The use of improved technologies and practices to deliver equal or better services with less water.
- Energy Efficiency: Practices that reduce the energy consumption, use energy more efficiently and or produce renewable energy
- Environmentally Innovative: New/innovative approaches to delivering water service or managing water resources in a more sustainable manner

# Green Stormwater Infrastructure

- Use of soil and vegetation to manage rainwater where it falls
- Multi-purpose
- Multiple benefits



# Multipurpose

- Quantity control
- Pollutant treatment
- Storage for re-use



# Environmental Benefits

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- Treat stormwater
- Reduce stream erosion
- Decrease temperature
- Trap particulates
- Acts as carbon sink

# Social Benefits

- Aesthetically pleasing
- Increase safety
- Educate citizens
- Create sense of community



# Economic Benefits

- Lower capital cost
- Reduce energy costs and water bills
- Create jobs
- Increase property values
- Less winter salting



# NJ Environmental Infrastructure Financing Program - CWSRF

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- Partnership between the NJDEP and the NJ Environmental Infrastructure Trust
- Provides low-cost loans and other funding to a wide variety of wastewater, stormwater and drinking water projects
- The Clean Water SRF was established in 1988 and typically has between \$250-\$400 million available annually to finance projects
- The Drinking Water SRF was established in 1998 and has less funds available and more competition for the funds
- Legislation has been introduced to finance the projects that applied in SFY14 and no significant changes to that plan are expected at this time.

# NJ Environmental Infrastructure Financing Program - CWSRF

- The NJDEP and the NJ Environmental Infrastructure Trust just announced the deadlines and programs for the SFY15 Program.
- Loans will include a blending of DEP and Trust loans to provide financing as low as one-quarter the market rate (0.8% for the SFY13 Projects)
- There are limited opportunities for grant-like funding for combined sewer overflow abatement projects with a focus on green stormwater infrastructure and for stormwater management activities in the Barnegat Bay Watershed
- The first deadlines requires prospective applicants to submit a Letter-of-Intent (LOI) and planning documents on or before October 7, 2013
- Design documents and loan applications are due on or before March 3, 2014
- After all applications are submitted, the Program develops legislation to finance the projects that apply for SFY15 financing, with loan closing in April/May 2015.

# Green Project Reserve

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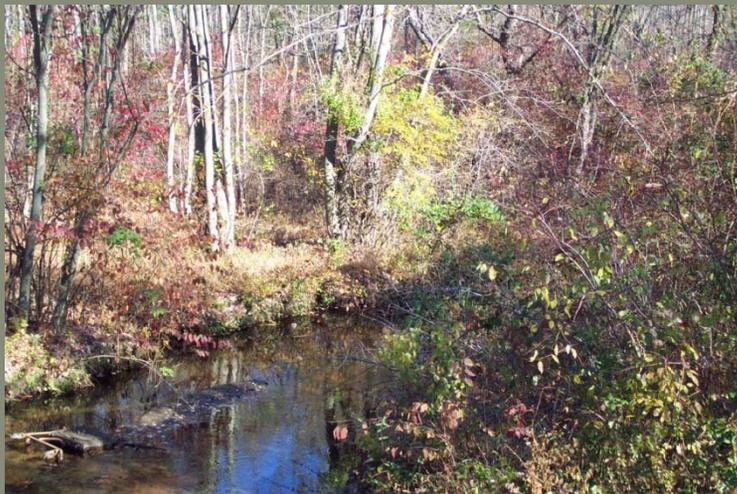
- Beginning with the ARRA/CWSRF financing in 2009, states have been required by EPA to use a certain percentage of their annual CWSRF allotments for Green Projects
- In FFY2010 and FFY2011, states were required to reserve 20% of their allotments and in FFY2012 and FFY2013, states were required to reserve 10% of their annual allotment to finance green projects.
- States were encouraged to meet the EPA requirements provided there are sufficient GPR project applications or otherwise modify their SRF Program

Green infrastructure does not replace  
gray infrastructure

But it can reduce the capital costs and O  
& M costs of gray technology



# “Green” Land Acquisition Projects



Middle Township



Edison Township



Dover Township



Old Bridge Township

# 2003 PROPERTIES



Readington Township



Lebanon Township



Lebanon Township



Washington Township

# Green Stormwater Controls

Jackson Twp. - Constructed Wetlands



# Other Green CWSRF Projects

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Solar Arrays/Panels

Wind Turbines

SCADA Systems

VFD Pumps



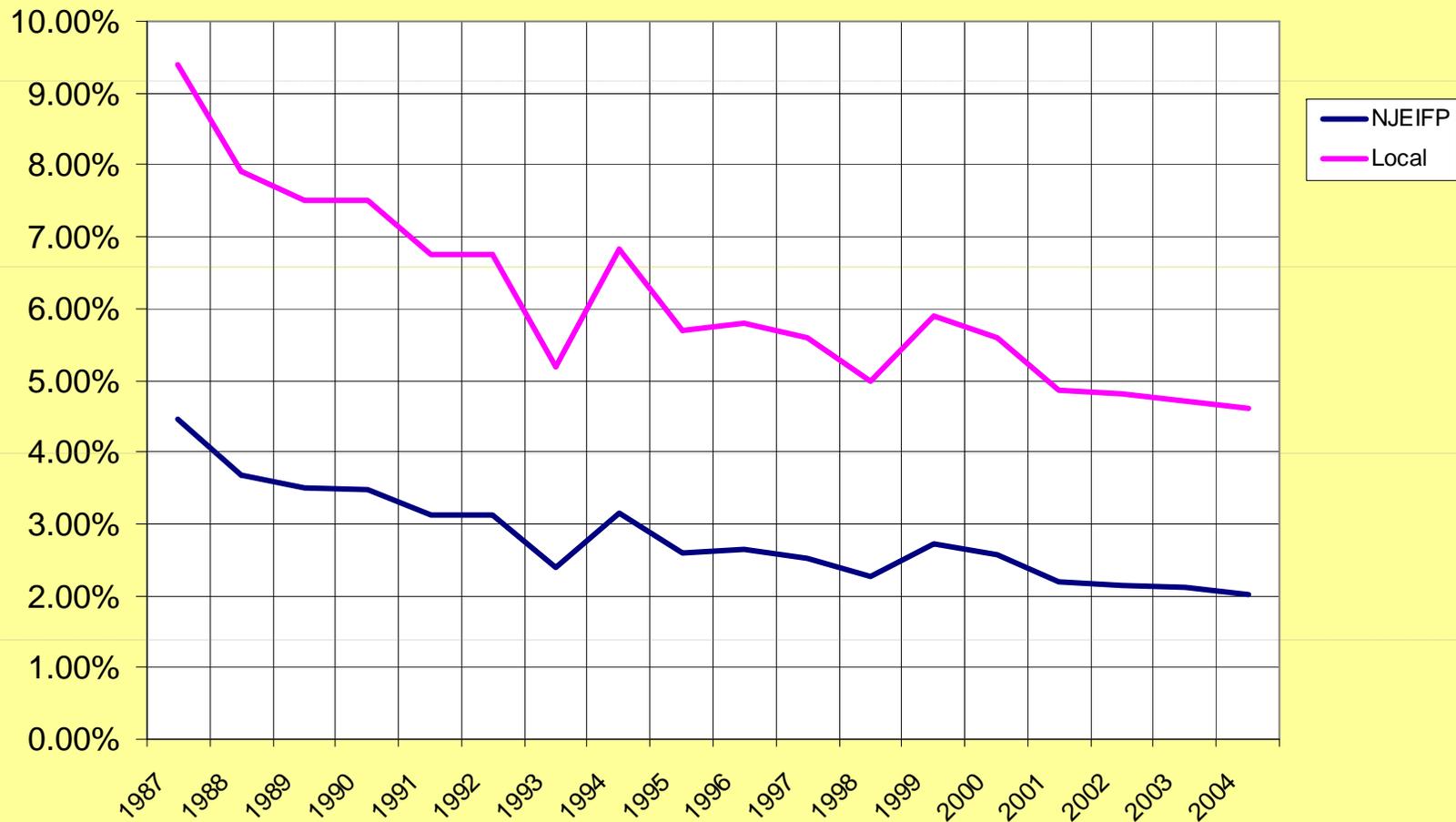
# WHAT'S IN IT FOR YOU?

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## COSTS SAVING

- Lower projects costs results in lower costs to user.

### INTEREST RATES NJEIFP<sub>(50/50)</sub> vs Local



# NJEIFP COST COMPARISON

Amount Of Loan	Local	NJEIFP		NJEIFP Smart Growth	
	Financing @ 5% Loan Cost	Financing @2.13% Loan Cost	You Save	Financing @1.07% Loan Cost	You Save
\$1,000,000	1,923,316	1,340,153	583,163	1,166,706	756,610
\$2,000,000	3,724,707	2,692,921	1,031,786	2,323,975	1,400,732
\$5,000,000	9,123,110	6,709,428	2,413,682	5,820,197	3,302,913
\$10,000,000	18,132,691	13,415,641	4,717,050	11,632,570	6,500,121
\$15,000,000	27,133,489	20,127,359	7,006,130	17,441,447	9,692,042
\$20,000,000	36,137,607	26,841,080	9,296,527	23,254,290	12,883,317
\$30,000,000	54,136,388	40,246,406	13,889,982	34,877,659	19,258,729

# Contacts (EIFP)

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# Contacts (EIFP)

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# Web Sites

**NJDEP - MFCE:**

**[www.state.nj.us/dep/dwq/wfp.htm](http://www.state.nj.us/dep/dwq/wfp.htm)**

**NJEIT:**

**[www.njeit.org](http://www.njeit.org)**