Sustainable Infrastructure Overview

Kasi

Bureau of Water Standard Facility Regulation

Statewide Committee State Water Plan March 20, 20

Why are we here?

- Provide Overview of the Initiation
- Need to start taking a more compressive look at our water infrastructure
- Solicit Input and Support
- Different Way of Thinking
 - Not something new, something part of our everyday jobs

Goal: Keep Pennsylvanians Working Repairing Pennsylvania's Infrastructure

Action Item #4

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Launch Rebuild Pennsylvania to repair the stall staging infrastructure with over \$700 million to accelerate progress in next three years. With these funds, over the next three years at least 1,000 bridges will be repaired, all state-owned what hazard dams will be addressed and matching funds will be provided to help local government repair their dams. Grant funds will provide targeted infrastructure improvement necessary for business expansion, completion of a recommunity of flood mitigation projects, improvement on state rail/freight lines and expansion of the capacity of regional airports.

PennDOT will commence the accelerated bridge repair program immediately, the balance of the infrastructure improvements require the passage of the Governor's budget proposal From Governor's Office Presents

Over \$250 Million in Infrastructure Improvements in Twelve Months

	2008-09	2019-10	2010:11	
New Capital Funds	5.700 on	4450.01		
Bridge Repurs	\$200.90	\$200.00	5200,00	
State-swined Dam Repairs	\$12.00	\$25.00	50	
New Flood Projects	\$13,00	\$20.00	\$5%.0K	
New Aviation Projects	\$5,00	\$5,06	\$5.7	
New Rad Freight Projects	\$10,09	\$10.00	\$11.40	
Total-Capital Funds	\$240.00	\$260,00	\$273.00	

Total—General Fund	\$19.10	\$8.90	54.50
Infrastructure for Business Development	\$16,09	\$4.00	00.62
New Florid Centrol Pesstarits	\$1.50	\$2.50	\$1.50
Flevod Faan Mapping	\$2.40		
DBP-Flood Co. to a Projects	\$3.60	\$3,65	\$3,00
PIENNVINT- Local Dam Repairs	\$2.20	\$4,40	50
New Operating Funds			

From Governor's Office Presentation

Executive Order

- Sustainable Water Infrastructure Task Force
 - 24 Members
- Identify the following:
 - The "gap" between financial need and available resources
 - Cost savings due to non-structural alternatives
 - Actual costs for providing services
 - Recommendations for promoting components of Sustainable Infrastructure (more later)
- Revise existing policies and procedures, guidelines and regulations to insure consistency with the principles of Sustainable Infrastructure

Sustainable Infrastructure (SI)

What does

Sustainable Infrastructure

Just the latest buzz-word - that will soon go away?

NO

SI is an umbrella concept that is the motivator receiving State infrastructure-related programs, plan

Additional programs, or a refinement of existing programs, that might be added to reinforce the concept

What started SI?

Recognition, on a national scale, that:

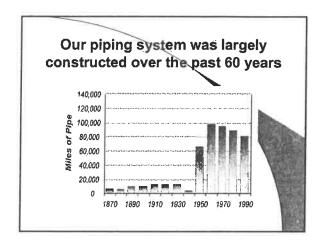
- Much of our water and sewer infrastructure is bad condition and getting worse.
- The government has shallow pockets
- The utilities can work more effectively and efficiently to improve delivery and control costs

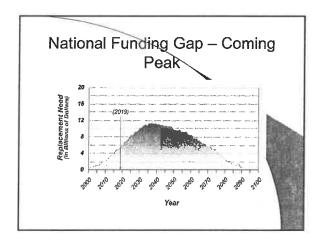
2002 EPA Gap Report

The Purpose – To reach a common, quantitative understanding of the magnitude of increase in investment needed.



http://www.epa.gov/owm/gapreport.pdf





So	what IS sustainable infrastructure?
	It is usually defined as the four SI "pillars"
	Better Management (Asset Management, Effective Management)
Mary Color	➤ Full Cost Pricing (Infrastructure Financing) ✓ Adequate rates; subsidy where necessary
	➤ Water Use Efficiency (System Efficiency) ✓ Optimized operation ✓ Water and Energy Conservation
AND PROPERTY OF THE PARTY OF TH	➤ Watershed Approach: Innovative solutions ➤ State Water Plan ➤ Regionalization ➤ Non-structural Alternatives

Crosswalk Pillars and the Governor's Order ➤ Effective System Management • Better Management < Asset Management • System Efficiency ____ → Efficient Operand • Infrastructure Sustainable Water Financing Infrastructure Task Force Regionalization • Watershed Approach Maximization of Non-Structural Alternatives

DEP Programs Link to SI Initiative

- Describe these programs by "pillar
- Link to the Executive Order Components
- How do we interconnect programs more effectively to promote SI?
- What do we need to do differently?

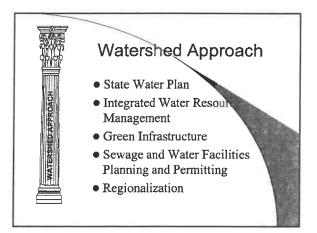


Better Management

- Operator Certification
- Workforce Development
- Capability Enhancement

System Efficiency Workforce Development Capability Enhancement Water Conservation Technical Associated Center Energy Conservation and Efficiency Initiatives

Infrastructure Financing • Focus of the Governor Task Force





What is the PA Gap Study?

- Goal Identify:
 - Utility Cash Flow Needs, 20 year
 - ₹-- Capital
 - V-0&M
 - Cash Availability
 - Existing user charges
 - "Affordable" future user charges
 - Available subsidies



What is the PA Gap Study? (continued)

- Quantify the "Gap" (#1 hove minus #2 above)
- Promote Needed Change
 - State assistance program methods a targeting
 - Subsidy distribution criteria
 - Encourage better management methods like AM
 - Increased user charges where necess



What is the PA Gap Study? (continued)

- Study Method
 - Joint State/EPA Study Desi
 - State collects data, 10% of systems (ongoing)
 - 196 Wastewater Systems
 - 158 Drinking Water Systems
 - Selection by Water Basin, based on flow population served
 - EPA HQ/Contractor data analysis
 - Joint EPA HQ/State report preparation

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Next Steps

- Strategic Planning Effort
- Support Sustainable Water Task A received
 - Report Due October 2008
- Contact Information
 - Division Phone Number: 717-705-4090

717-787-0122