### P.A. 096-0026 Study: CNT Research

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Illinois EPA Stakeholder Meeting Springfield, Illinois January 12, 2010





#### **CNT** Research

- State Survey
- Illinois MS4 Program
- Green Infrastructure Portfolio Standard
- GI Cost-Benefit Analysis



## State Survey

#### Issues to watch:

#### Types of standards

 volume control, release rates, groundwater recharge, pollutant load, erosion, resource protection

Thresholds, exemptions
Flexibility
Green infrastructure requirements
Maintenance requirements



#### **Illinois MS4 General Permit:**

# New Requirements for:

Small Municipal Separate Storm Sewer Systems

#### **General NPDES Permit No. ILR40**

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand East
P.O. Box 19276

Springfield, Illinois 62794-9276

#### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM General NPDES Permit

For

Discharges from Small Municipal Separate Storm Sewer Systems
Expiration Date: Issue Date: Effective Date:

In compliance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter 1) and the Clean Water Act, the following discharges may be authorized by this permit in accordance with the conditions herein:

Discharges of only storm water from small municipal separate storm sewer systems, as defined and limited herein. Storm water means storm water runoff, snow melt runoff, and surface runoff and drainage.

**Receiving waters:** Discharges may be authorized to any surface water of the State. To receive authorization to discharge under this general permit, a facility operator must submit an application as described in the permit conditions to the Illinois Environmental Protection Agency. Authorization, if granted, will be by letter and include a copy of this permit.



#### Illinois Small "MS4s"

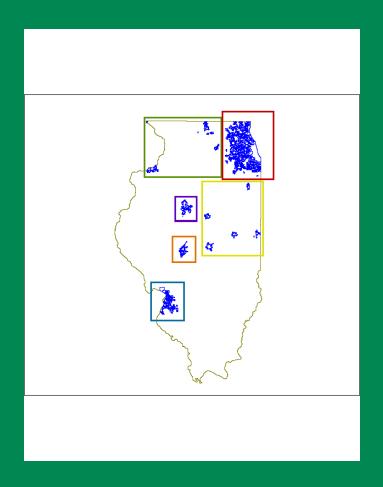
"Small MS4s" =

Municipalities serving fewer than 100,000 people in urban areas:

≥50,000 total population

≥500 people/square mile

In Illinois about 435 municipalities are covered by ILR40





# Green Infrastructure Requirements in Updated IL40

- 1. Education
- 2. Training of staff and contractors
- 3. Best management practices
- 4. Applicability to public surfaces
- 5. Applicability to existing developed property



#### **Limitations of IL40**

- 1. Applicability limited to "urban areas"
- 2. Lack of performance standards
- 3. Burden rests on municipalities



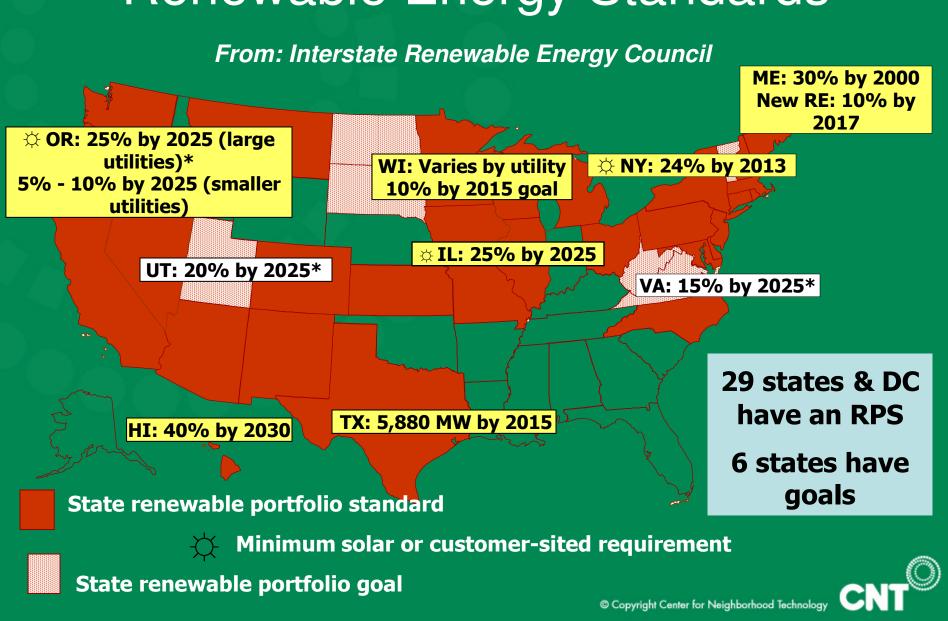
# Green Infrastructure Portfolio Standard

#### Concept:

Establish a goal of gradually increasing the percentage of stormwater in an area that is managed with green infrastructure.



# Renewable Energy Standards



## Portfolio Standard Potential Elements

- Metrics
  - Type of goal to be achieved
  - Eligible green infrastructure technologies
  - Information technology; database
- Administrative body
- Enforcement or incentive mechanisms
- Maintenance program



# Green vs. Grey

Costs and benefits of using green as compared with using grey infrastructure

Green Values Calculator®



