






# New England Interstate Water Pollution Control Commission

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# Climate Change Workgroup

## Members are Representatives from

-  NEIWPCC Member States: New England States & New York
-  Federal Agencies: EPA, USGS, NOAA
-  Universities: UMass Amherst, UCONN
-  Other Non-Profits: NESCAUM

## Focus

-  Understanding the larger issue of climate change and how it relates to water resources in the Northeast.
-  Facilitating discussions on climate change science, policy, and legislation.
-  Information sharing and outreach.

# Workgroup Goals

- 💧 **Develop Adaptation Strategies for Water Infrastructure**
  - 💧 Preliminary set of recommendations for minimizing the vulnerability of water resources to climate change impacts
  - 💧 Explore various adaptation strategies and barriers to implementation, costs, and social and environmental consequences.
  
- 💧 **Develop a Regional Climate Change Monitoring Network**
  - 💧 Identify key climate change indicators for freshwater
  - 💧 Identify current monitoring networks
  - 💧 Identify regional monitoring databases and data sharing tools

# Needs

## Adaptation Strategies:

- ◆ Regional and local modeling to predict impacts
- ◆ Review of existing policies that will affect implementation of adaptation strategies:
  - ◆ Land-use planning
  - ◆ Building/plumbing codes
  - ◆ Wetlands
  - ◆ Stormwater/LID
  - ◆ SRF
- ◆ Energy efficiency/renewable energy (mitigation?)
- ◆ Water reuse technologies
- ◆ Funding

# Needs

## Monitoring Network:

- ◆ Consensus on indicators of interest
  - ◆ Precipitation, temperature, stream flow, WQ parameters, etc.
- ◆ Additional information on existing monitoring networks
  - ◆ Locations, Indicators of interest, sampling frequency, methods, etc.
- ◆ Answers to data warehousing, sharing, and accessibility questions/concerns
- ◆ Coordination with existing/proposed monitoring networks
  - ◆ Work together for funding, eliminate redundant projects, share monitoring sites and data
- ◆ Funding

# Regional Projects

## CTDEP-ICLEI Adaptation Resource Toolbox

 [http://www.epa.gov/statelocalclimate/documents/pdf/pagach\\_presentation\\_1-13-2011.pdf](http://www.epa.gov/statelocalclimate/documents/pdf/pagach_presentation_1-13-2011.pdf)

## Long Island Sound Sentinel Monitoring Strategy

 Monitoring Program for the LIS and coastal ecoregions

 <http://longislandsoundstudy.net/about/about-the-study/>

## Gulf of Maine EcoSystem Indicator Partnership

 Monitoring to assess health of the Gulf of Maine Ecosystem

 <http://www.gulfofmaine.org/esip/>

# Regional Projects

## 💧 EPA GCRP's Climate Change Monitoring Network

- 💧 Will target med-high gradient freshwater streams with low risk of future development

## 💧 USGS Reference Site Network

- 💧 Developing a long-term network of reference watersheds and monitoring sites for freshwater streams in the U.S. (relatively unimpaired watersheds)
- 💧 <http://nadp.sws.uiuc.edu/meetings/fall2010/post/session5/Wilber.pdf>



# Contact Information

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## Upcoming NEIWPCC Conferences

- 💧 2011 Northeast Water Science Forum: Science to Inform Pharmaceutical and Personal Care Product Management: April 27 - 29, 2011 in Portland, Maine
- 💧 2011 Annual Nonpoint Source Pollution Conference: May 17 – 18, 2011 in Saratoga Springs, New York

(see [www.neiwppcc.org](http://www.neiwppcc.org) for details!)