



City of Keene, NH

Towards a Climate Resilient Community

NH Office of Energy and Planning
2016 Spring Planning and Zoning Conference
June 4, 2016

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ne <ctbreq-dpw@ci.keene.nh.us@mail17.us4.msv.net> on behalf of City of Keene <ctbreq-dpw@ci.keene.nh.us>

Rain Forecasted for Keene

MAY 16, 2014

Weekend Rain Forecasted

Heavy rains are predicted for Keene and the Monadnock Region tonight and through this weekend. The Public Works Department, Highway Division, will be inspecting the City drainage system today, as well as brooks and waterways to clear any debris and ensure proper drainage.

The Public Works Department would like to remind residents that they can help ensure proper drainage in their neighborhoods by clearing any leaves or debris from catch basins. We also request that drivers do not attempt to drive on a roadway if it appears to be flooded. This can send water onto properties and can flood basements.

Please contact the Public Works Department at 603-352-6550 with questions or concerns.

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How We Got Started...

- Partnered with ICLEI in 2000 as part of CCP Mitigation program
- GHG Emissions Inventory 2000
- Established GHG reduction target Adopted Climate Change Action Plan in 2004
- Implementing projects since 2000
- Climate Resiliency (Adaptation) Plan 2007
- Comprehensive Master Plan 2010

Reduction Measures

- Biodiesel & Hybrid vehicles in city fleet
- Geothermal system at DPW
- Methane to energy system
- Micro Hydro energy generation at WTF
- Climate Showcase Community Recipient
- ESCO contract
- LED streetlights, traffic signals

The Preparedness Planning Process



Climate Impacts - Keene

- Floods
- Changes in snowfall
- Changes in plant and animal species
- Hotter days
- Air Quality Impacts
- More dynamic weather pattern

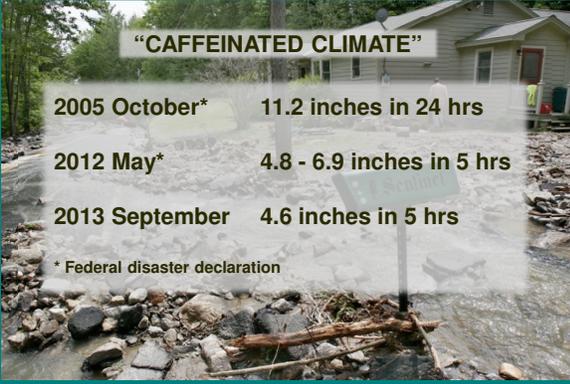


Keene 2005

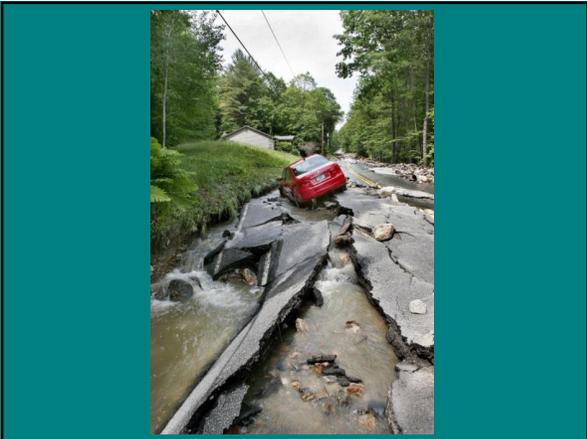
"CAFFEINATED CLIMATE"

2005 October*	11.2 inches in 24 hrs
2012 May*	4.8 - 6.9 inches in 5 hrs
2013 September	4.6 inches in 5 hrs

* Federal disaster declaration





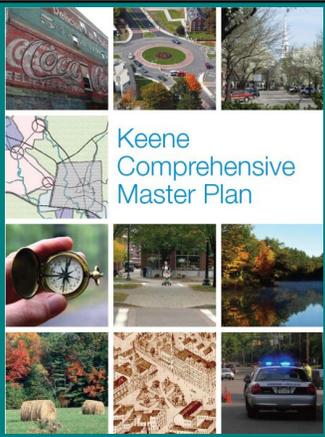


Resiliency in Keene

- Energy efficiency and sustainable design standards
- Decrease runoff
- Enhance ability of Stormwater systems to handle large storms
- Create migratory pathways for animals
- Promote renewable energy resources
- Increase local food production
- Improve reliability of emergency communications
- Set the stage for a community conversation about sustainability

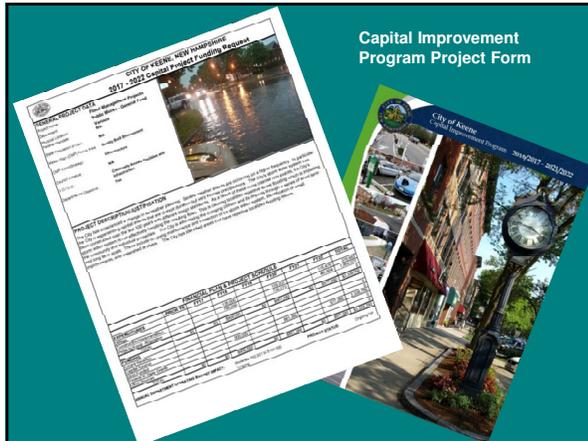
2010 Comprehensive Master Plan

- Written through the filter of a changing climate
- Emphasis on Community Sustainability
- Sets goals and actions for future land use, capital projects, and operating budget

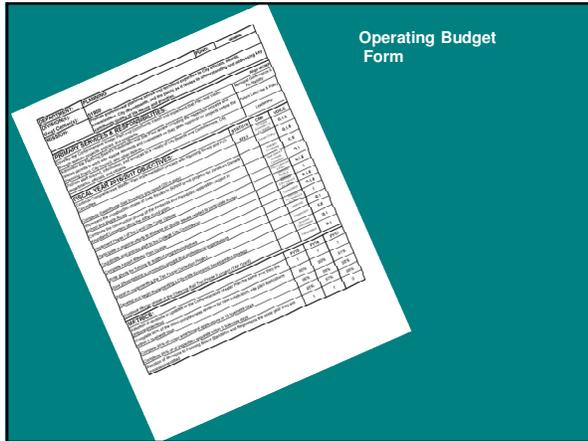


CMP Implementation

- Hillside Development Ordinance
- Surface Water Ordinance
- Incentive Zoning
- LID Regulations
- Culvert and Stormdrain study



Capital Improvement Program Project Form



Operating Budget Form

Resiliency Implementation

- Watershed H&H Study
- Bridge Replacement
- Drain Cleaning & Repair
- Stormwater System Projects
- Dam Studies and Repairs
- Vulnerability Study update

Observations

- Fixing Big Problems takes a Long Time
- Find a Way to Help affected Residents & Businesses
- Make sure New Development Doesn't Make Things Worse
- FEMA Programs Need to be Recalibrated
- The Cumulative Effect of Small Decisions



Portland waterfront "King Tide" October 28, 2011



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