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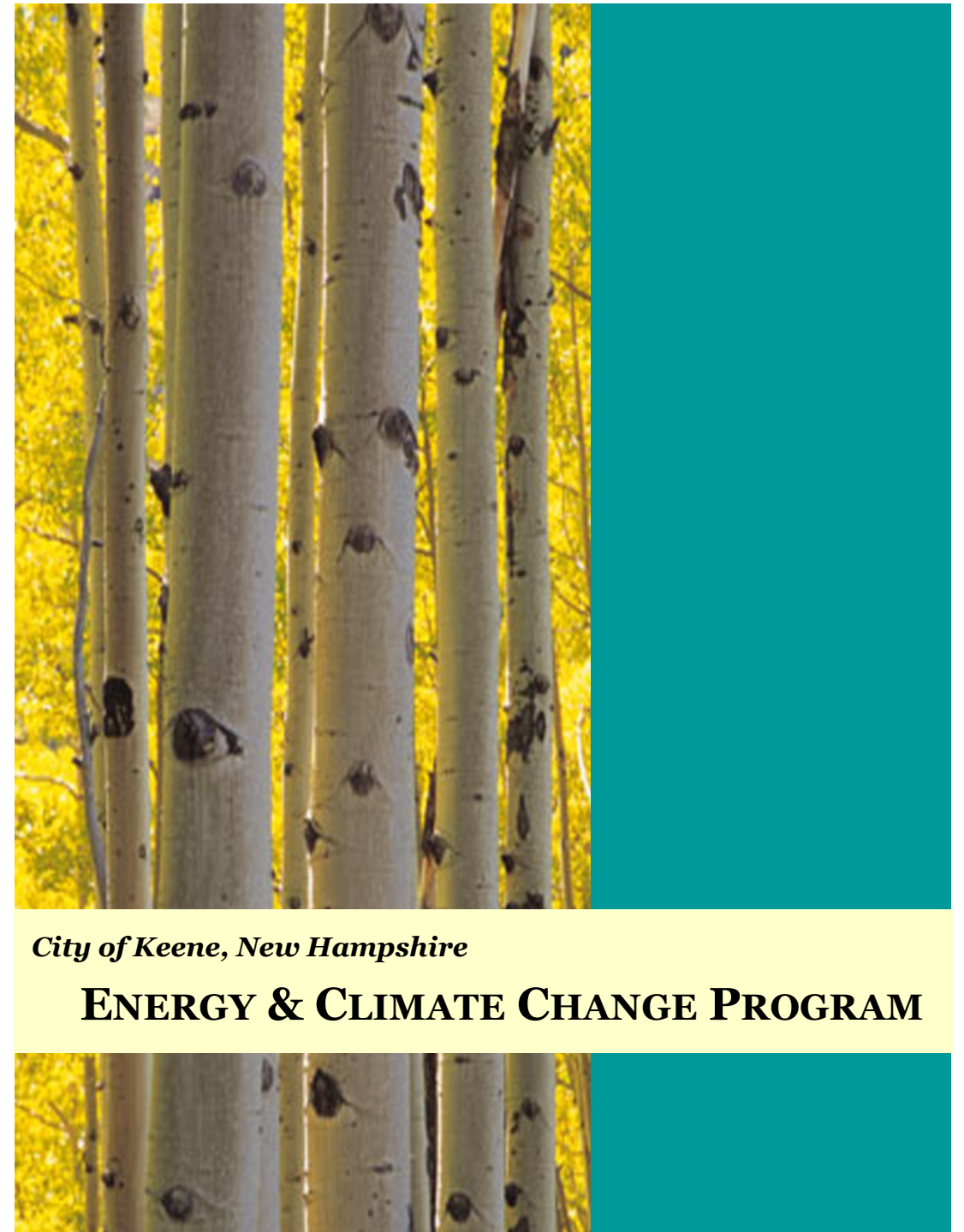
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City of Keene, New Hampshire

ENERGY & CLIMATE CHANGE PROGRAM

OVERVIEW

Keene has been working on energy efficiency and reduction of greenhouse gas emissions since 1999. We were the first community in New Hampshire to adopt a [Climate Action Plan \(2004\)](#) and one of the first in the nation to adopt a [Climate Adaptation plan \(2007\)](#). We have completed a wide range of energy efficiency, renewable energy and CO₂ reduction projects and helped others seeking to do the same. We are a member of ICLEI – Local Governments for Sustainability, and have contributed to the growth in awareness and responses to climate change throughout the Region, State and at the Federal level.

SELECTED PROJECTS—COMPLETED

A partial list of **completed** Keene energy efficiency and climate projects:

- Methane Recovery System at Landfill used to power solid waste transfer station (1994-2018).
- LED light replacements for: Traffic Signals, Airport Beacons, Parking Facility, and Main St. street lights (2000-2010).
- Geothermal HVAC at Public Works Department (2003).
- Variable speed drives at various locations (electric motors).
- Education and Outreach including school based Anti-Idle Program and solar car race (2005).
- City Employee Energy Forum – to implement energy conservation and behavior change.
- Woodstove Change-out program to replace older woodstoves with EPA certified stoves and promote biomass heat.
- Hydro-electric turbines at the water treatment plant (2010).
- Energy Services Contract (ESCO) upgrades to City Buildings (2011).
 - Chiller replacement at City Hall
 - Installation of Solar Photo-voltaic system on City Hall roof.
 - Various building envelope and lighting upgrades for municipal buildings
- Various improvements at WWTP – installed LED lights and sensors, passive solar heating and heat recovery system, & use of variable frequency drives.
- Participant in State Electronics Challenge (energy efficient computer and equipment).
- Built 5 Roundabouts to improve traffic flow and reduce idle time.
- Complete Streets Policy (2015).
- Incentive Zoning (SEED District) to construct green buildings and increase density in downtown.

- Incentive Marlboro St. Business Growth and Reuse District to construct green buildings.
- Built North Bridge over the Franklin Pierce Highway, connecting the Cheshire Rail Trail (2013).
- Built South Bridge over NH Route 101, connecting the Ashuelot Rail Trail (2017).

SELECTED PROJECTS—CURRENT AND ONGOING

A partial list of **current** and **ongoing** Keene energy efficiency and climate projects:

- Use of local recycled materials and glass crushed aggregate in road construction projects.
- Internal Paper Recycling Program (since 2002).
- Use of Biodiesel in City Fleet (since 2002).
- Internal Anti-Idling program (since 2008)
- Use of Hybrid Vehicles in our Fleet (since 2005).
- Greenhouse gas inventories for 1995, 2006, 2007, and 2015.
- Creation of an Environmentally Preferable Purchasing Program (EP3) and EP3 Team.
- Tax incentives for residential wood, wind and solar installations.
- Updating the zoning code to incorporate smart growth & sustainability principles.
- Hosts of the annual Granite State Clean Cities Coalition Conference, 2016, 2017.
- Converted all City street lights to LEDs (2017).
- Endorsed the Bicycle Mayor of Keene, the first Bicycle Mayor in the U.S., to conduct bicycle outreach and education (2017).
- Installed in-street bicycle facilities on Main Street (2017).
- EPA Climate Showcase Community Grant to install biofuel generation at the closed landfill to power the Keene Transfer Station (2018).
- Exploring the use of solar Photovoltaics at 350-400 Marlboro Street (2018).
- Plans to build a roundabout at Winchester St. and Island St.

RESOURCES

City of Keene Sustainability: <http://www.ci.keene.nh.us/sustainability>

ICLEI USA: www.icleiusa.org/programs/

NH Sustainable Energy Association: www.nhsea.org/

NH DES State Climate Action Plan:

www.des.nh.gov/organization/divisions/air/tsb/tps/climate/action_plan/index.htm