



## Connecticut Climate Change

It's Easy to be Green:

**onething**<sup>TM</sup> Leads to Another

Lynn Stoddard, CT DEP  
CT Training and Development Network Meeting  
September 12, 2008



## Connecticut Climate Change

# Overview of today's presentation

- Why should we care about climate change?
- Green training opportunities
- What can you do at home?



## Connecticut Climate Change

# Why Should We Care About Climate Change?



## Connecticut Climate Change

# Sources of global warming pollution

- Combustion of fossil fuels
  - Power plants
  - Cars, buses, trains, trucks
  - Heating and cooling of buildings
  - Energy to produce and transport food and products
- Transportation and electricity are largest sources, and they are both growing
  - More people driving more miles, despite more efficient vehicles
  - More computers, TVs, appliances in average home, despite more efficient appliances



## Connecticut Climate Change

# Solutions require smarter choices

- Cleaner electricity generation
- Cleaner transportation and smarter land use
- More efficient energy use – residential, commercial, industrial
- Reduced emissions from agriculture, land clearing, and waste management
- More tree planting and better forest management
- Public education and awareness



## Connecticut Climate Change

# Climate change facts

- Climate is already changing
- Climate change is accelerating
- Projected change is significant, depending on our emissions of greenhouse gases
- Magnitude of future impacts depends on our actions today



## Connecticut Climate Change

# Impacts so far on the Northeast

- Annual temperatures up almost 2°F since 1970
- Winters are warming fastest, at 1.3°F per decade since 1970
- Snowpack and lake ice are decreasing
- Spring indicators are arriving earlier
- Extreme heat in summer is becoming more frequent

Source: UCS, Climate Change in the Northeast



## Connecticut Climate Change

# Projected climate impacts on the Northeast

- Temperature – average regional temps up by 6 - 14° F by late century; increase in days > 100° F
- Precipitation – more heavy rainfall events; 20 – 30% increase in winter precipitation, more as rain
- Sea level – 10 – 24 inches by end of century (high emissions scenario), 7 – 14 inches (low emissions scenario); does not account for melting of major ice sheets
- Coastal flooding – current 100-year flood in Groton/New London could occur every 17 years (high emissions scenario)

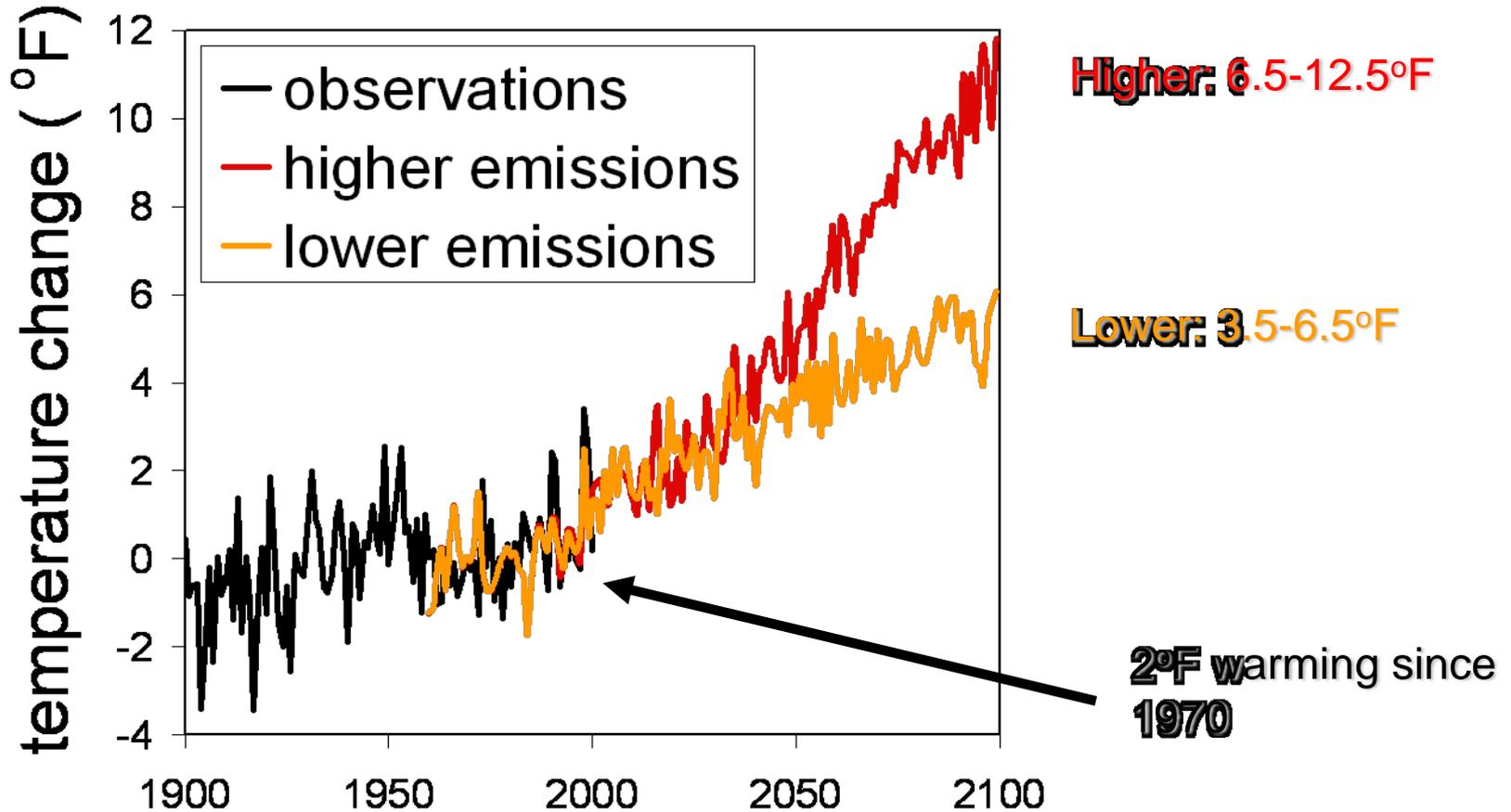
Source: UCS, Climate Change in the Northeast



## Connecticut Climate Change

# Warming of up to 12½ degrees (Region-wide annual average)

Source: UCS, Climate Change in the Northeast

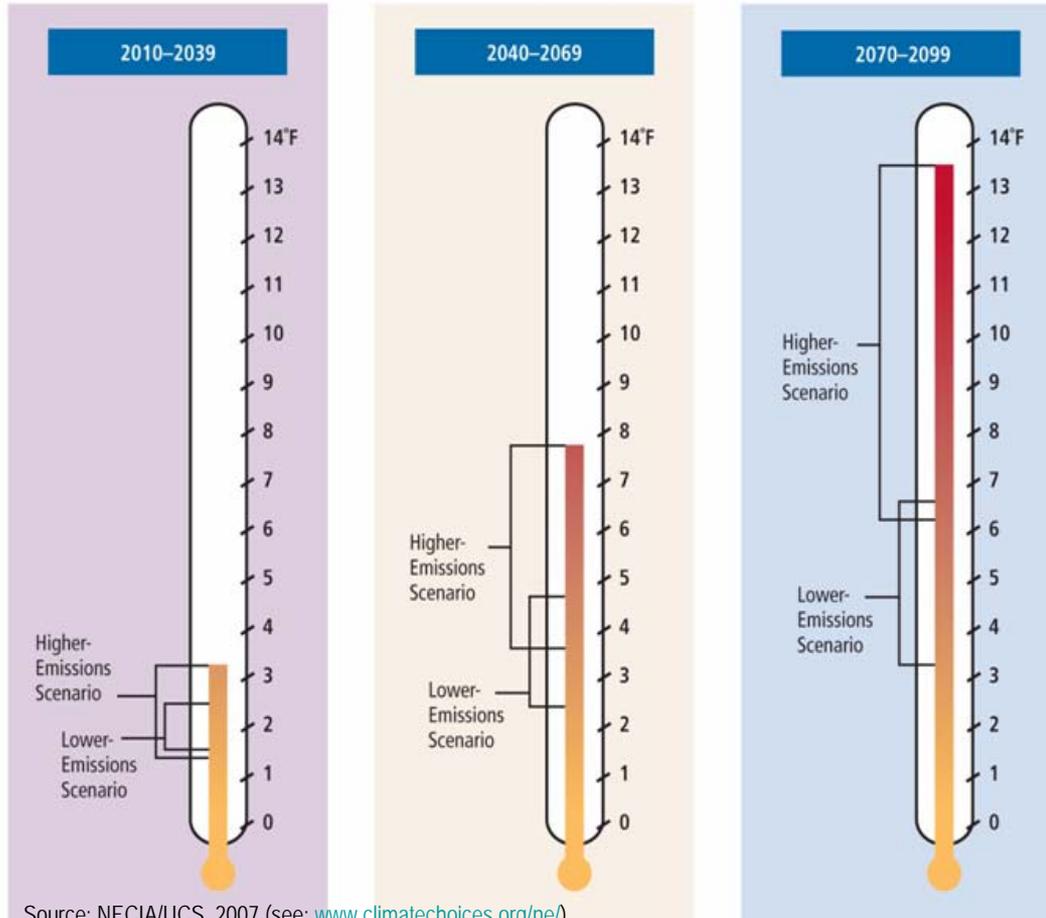




## Connecticut Climate Change

# Summer feels like VA or SC

Source: UCS, Climate Change in the Northeast



Source: NECIA/UCS, 2007 (see: [www.climatechoices.org/ne/](http://www.climatechoices.org/ne/))

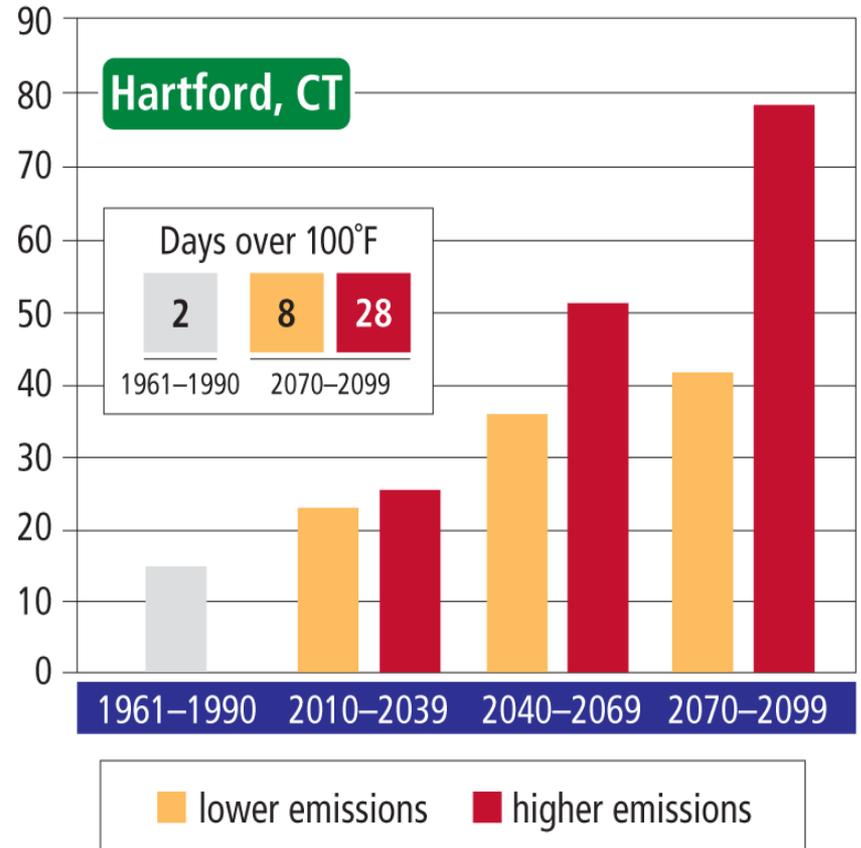


Source: NECIA/UCS, 2007 (see: [www.climatechoices.org/](http://www.climatechoices.org/))



## Connecticut Climate Change

# Heatwaves and temperature extremes More days over 90 F



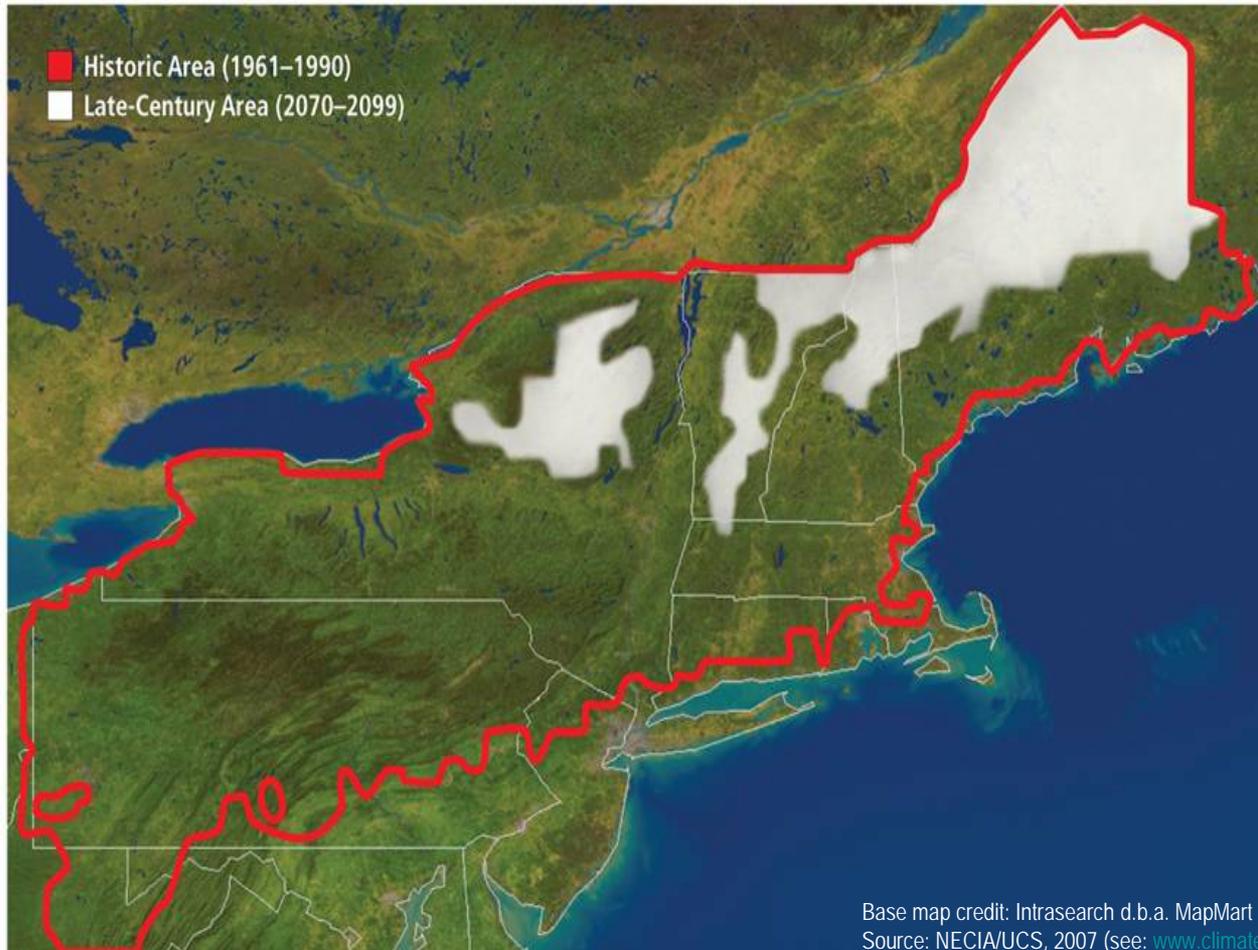
Source: NECIA/UCS, 2007 see:  
[www.climatechoices.org/ne](http://www.climatechoices.org/ne)



## Connecticut Climate Change

# Areas with snow cover more than 30 days

Source: UCS, Climate Change in the Northeast





## Connecticut Climate Change

How will our emissions choices effect our future climate in CT?

- **Agriculture** – dairy, crop productivity, pests and weeds
- **Forests** – ecosystem response, tree habitat change, bird habitat change, insect pests
- **Coasts** – coastal flooding, shoreline change
- **Marine** – cod and lobster habitat
- **Health** – air quality, heat-related health, urban vulnerability
- **Winter recreation** – skiing and snowmobiling



## Connecticut Climate Change

# The challenge is HUGE

- Our climate is already changing – we need to adapt to these changes
- Even as we make cuts, emissions continue to rise -- we're just slowing the rate of growth
- Climate stabilization requires up to 80% reductions
- The choices we make over the next 5 - 10 years are critical



## Connecticut Climate Change

### CT leadership on climate change

- New England Governors/Eastern Canadian Premiers Climate Change Action Plan (2001)
- CT Climate Change Action Plan (2005)
- Mandatory limits for greenhouse gas emissions (2008 statute):
  - 10% reductions by 2020
  - 80% reductions by 2050



Connecticut Climate Change

# Green Training Opportunities



## Connecticut Climate Change

# Green training opportunities

- Transportation: minimize vehicle travel
- Publicity and handouts: go paperless
- Energy: conserve and maximize efficiently
- Waste: reduce, reuse, recycle
- Food: buy local and minimize waste
- Hotels: go green
- Education: raise awareness about the green features of your meeting
- More: use green cleaners, go carbon neutral



# Connecticut Climate Change Transportation





# Connecticut Climate Change Transportation

## *Train*

### **From Hartford:**

Take Amtrak to New Haven Union State

<http://www.amtrak.com/servlet/ContentServer?pagename=Amtrak/HomePage>

To get to Yale campus, take CTTransit Bus Service – Sargent Drive Commuter Connection to State Street Station to catch the Downtown Commuter Connection Bus service. Get off the bus at Hillhouse & Sachem (Peabody Museum) stop. Sage-Bowers Hall is one block away.

### **From Stamford**

Take Metro North Train to New Haven Union Station

<http://www.mta.info/mnr/>

To get to Yale campus, take CTTransit Bus Service – Sargent Drive Commuter Connection to State Street Station to catch the Downtown Commuter Connection Bus service. Get off the bus at Hillhouse & Sachem (Peabody Museum) stop. Sage-Bowers Hall is one block away.

### **From New London**

Take Shore Line East to New Haven State Street Station

<http://www.shorelineeast.com/>

To get to Yale campus take CTTransit Bus Service – Downtown Commuter Connection Get off the bus at Hillhouse & Sachem (Peabody Museum) stop. Sage-Bowers Hall is one block away.

## *Bus*

CTTransit <http://www.cttransit.com/content/routes.asp>

## *Carpool*

NuRide <http://www.nuride.com/nuride/main/main.jsp>

GoLoco <http://www.goloco.org/greetings:guest>

Contact others attending event through Google Groups “Connecticut 20% by 2010 Clean Energy Campaign” <http://groups.google.com/group/20by2010CleanEnergy?lnk=sg>

## *Bike*

Bike racks are located in the following locations:

- Directly in front of Sage-Bowers Hall
- To the left of Sage-Bowers Hall (see signs to Lot 21)
- At the School of Management (corner of Sachem and Prospect Streets)
- At the Osborn Memorial Laboratories (corner of Sachem and Prospect Streets)



## Connecticut Climate Change

# Publicity and handouts

The screenshot shows the website's header with the title "Taking Responsibility for our future" and a navigation menu. The main content area is titled "Public Stakeholder Input" and contains several sections of text and links.

**Public Stakeholder Input**

The Governor's Steering Committee on Climate Change invites your participation in implementing the CT Climate Change Action Plan and developing additional actions to reduce greenhouse gas emissions. We are holding a year long series of bi-monthly meetings to enable ongoing dialogue on current initiatives and emerging solutions. Please join us. We are eager to listen to your ideas and comments.

**Give Us Your Input on New Ideas to Address Climate Change**

We welcome your ideas. You can provide them in the following ways:

1. At one of the public stakeholder meetings listed below
2. In writing through our [New Ideas Form](#) - now available online.
3. View [submitted New Ideas](#) (MS excel file).

**Public Stakeholder Meeting Schedule**

If you would like your name placed on the distribution list to be notified of public stakeholder meetings, please [contact us](#).

**Fall 2008 - NOTE DATE CHANGE**, new date TBD. CHECK BACK FOR UPDATES  
Concluding stakeholder meeting , summary of input and new actions to reduce greenhouse gas emissions.

**Previous Stakeholder Meetings**

**May 28, 2008**, 8:30 a.m. - 12:30 p.m., Bowers Auditorium, Yale University, New Haven, CT  
Meeting focus: Greenhouse gas reductions through effective Education and Consumer Actions.

- [Agenda](#)
- Presentations:  
[Climate Change and the American Mind](#), Anthony Leiserowitz  
[Update on Climate Change Action Plan Education Actions](#), Lynn Stoddard, Don Casella, Beth Byron
- [Breakout session notes](#)
- [Participants](#)

**Left sidebar navigation:**

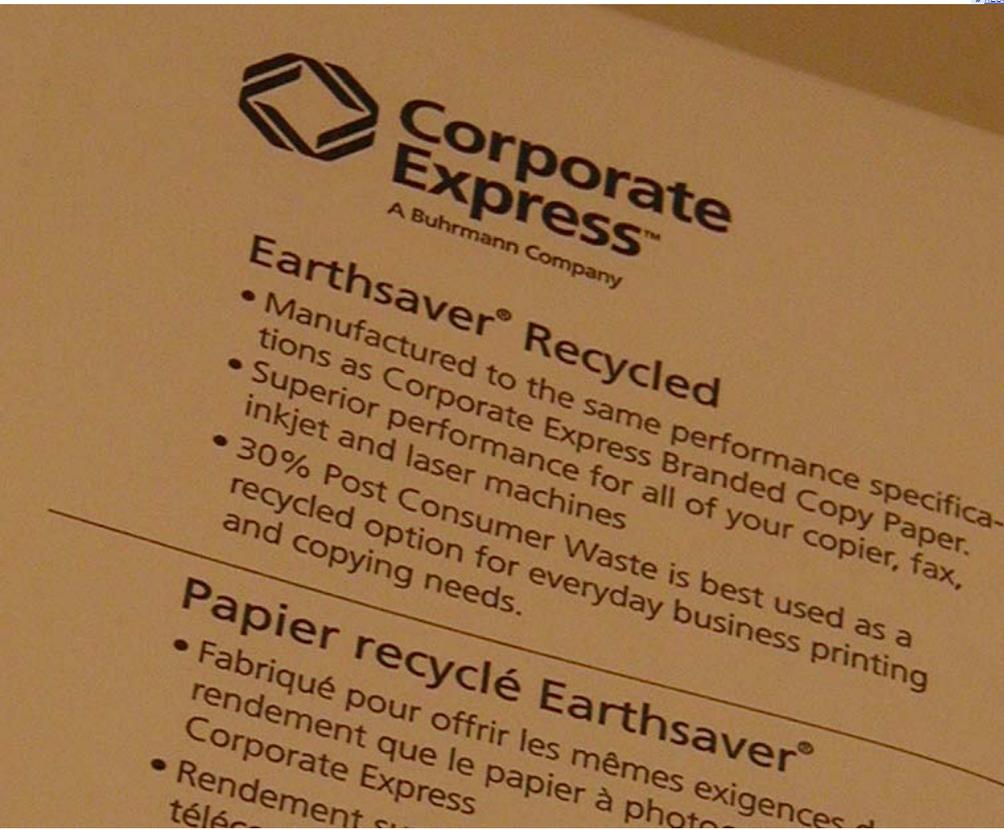
- [2008 CT Climate Change Leadership Awards Announced](#)
- [2008 Cool It winners](#)
- PUBLIC INPUT and public stakeholder meetings**
- [Host a Climate Action Event](#)
- [What Can You Do about Climate Change?](#)
- [Success Stories on CT Actions](#)
- [Speakers List](#)



## Connecticut Climate Change

# Publicity and handouts

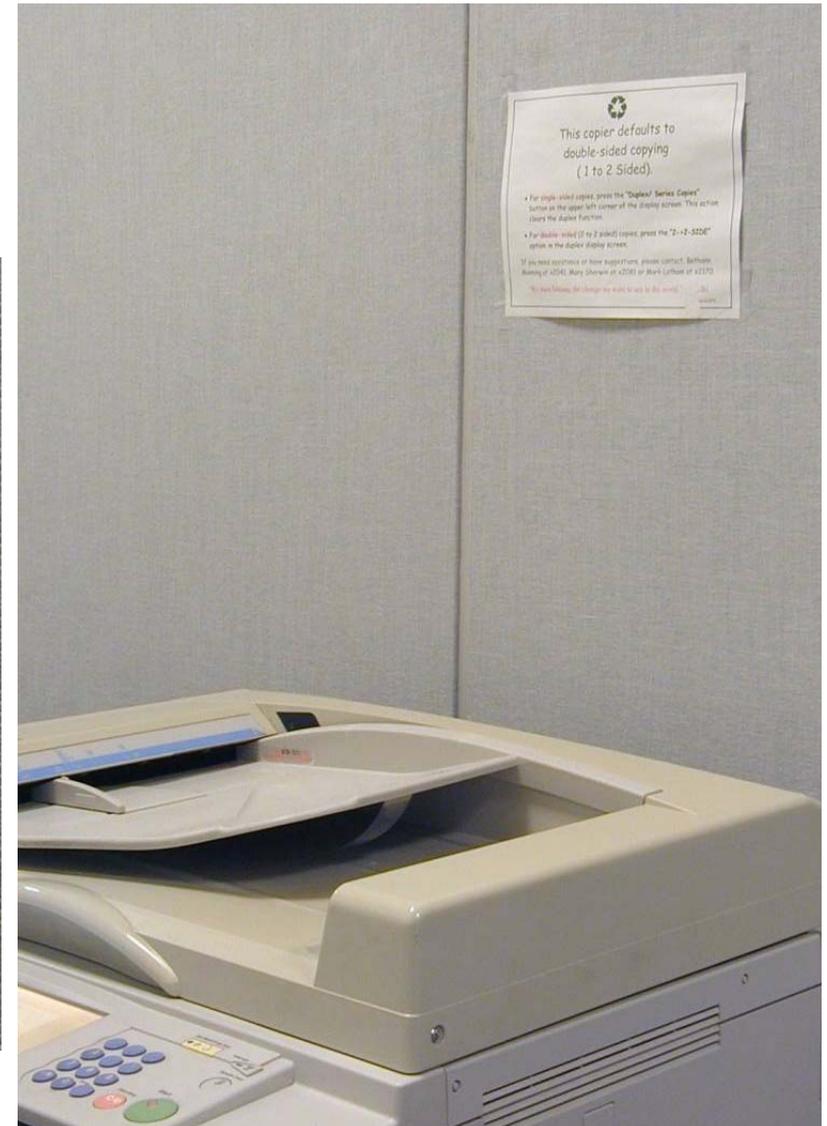
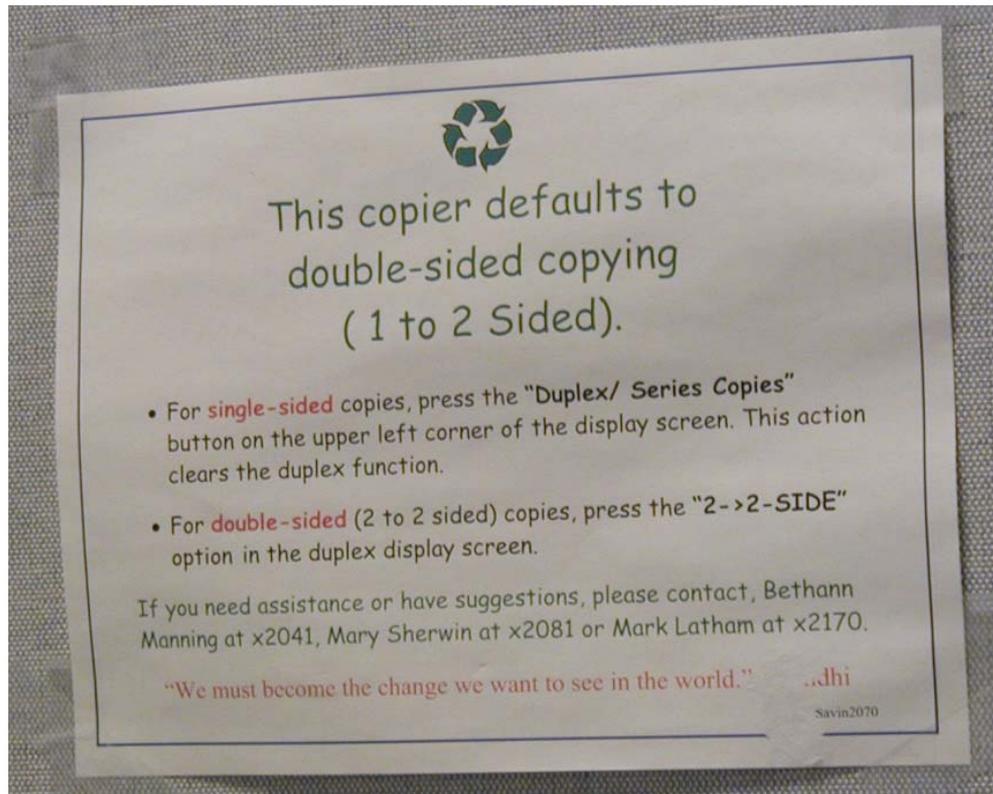
The screenshot shows the Connecticut Department of Administrative Services (DAS) website. The header includes the Connecticut EPP logo, the text "State of Connecticut Department of Administrative Services", and the DAS logo. A navigation bar contains links for "About DAS", "FAQ's", "Press Room", "Site Map", "Contact Us", and "Home". The main content area is titled "Environmentally Preferable Purchasing" and includes a search bar, a "DAS CONTENT" menu with links to Procurement, Contracting Portal, Business Services, Fleet Operations, State Employment, Human Resources, Smart, Print, Mail & Courier, Press Room, and Resource Directory, and a "FEEDBACK" section. The main text welcomes users to the EPP Program Home Page and provides information about state contracts, EPP publications, and state statutes and policies. A link for "EPP Cleaning Products Policy" is also visible.





## Connecticut Climate Change

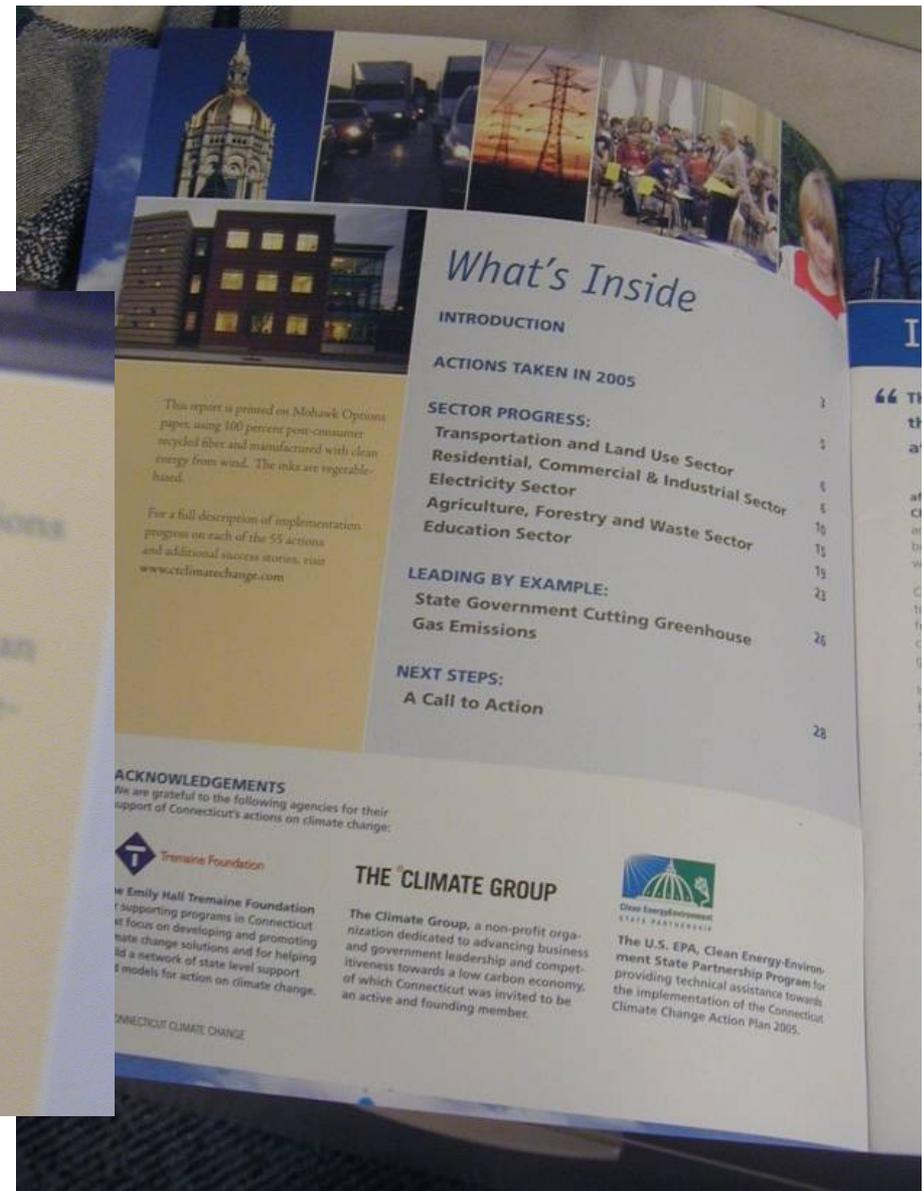
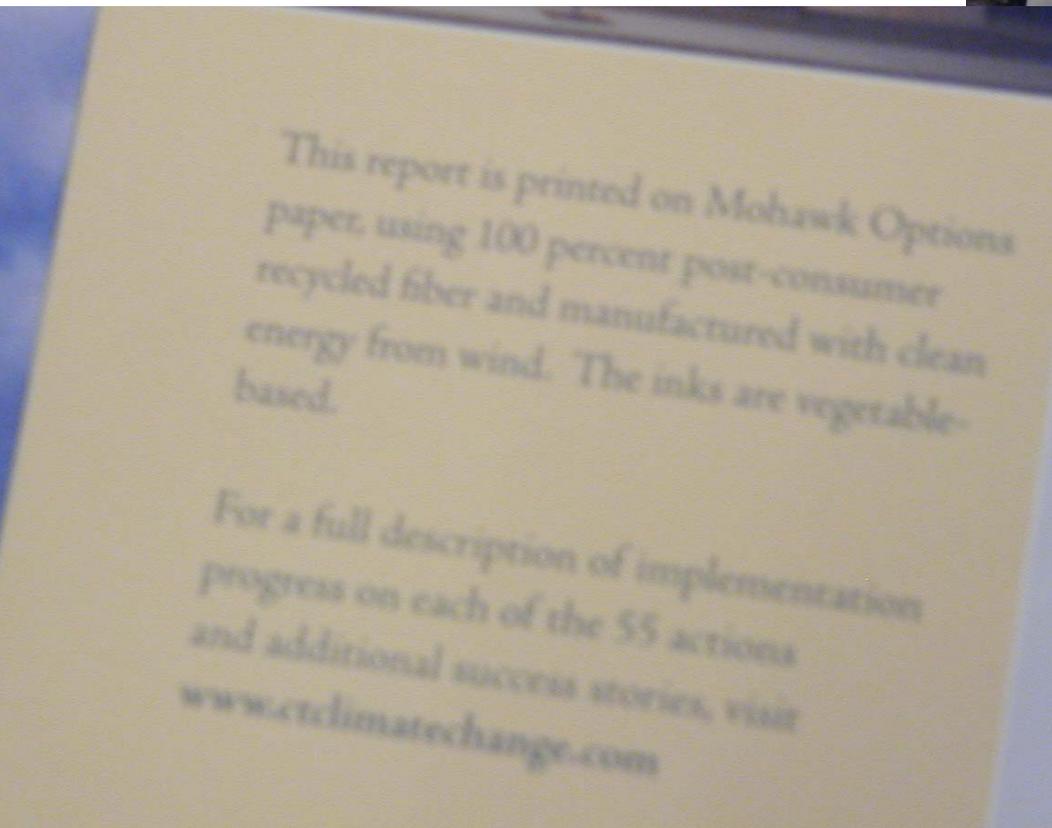
# Publicity and handouts





## Connecticut Climate Change

# Publicity and handouts





# Connecticut Climate Change Energy





## Connecticut Climate Change

# Waste





# Connecticut Climate Change

## Food

HOME | ABOUT | NEWS | EVENTS | RECIPES | CONTACT | LOGIN/MY ACCOUNT

FIND   WITHIN  MILES OF   [Search Tips](#)

**CONNECTICUT GROWN**  
THE LOCAL FLAVOR

In season

**RIGHT NOW:**

- Pies
- Parsley
- Fingerling Potatoes
- Blackfish
- Porgy
- Sheep Cheese
- Propolis
- Blue Potatoes

[Find more in season](#)

### This is Connecticut Grown

**Announcing BuyCTGrown.com!**  
Finally, a website to help you find locally grown food and farm products in Connecticut!

- Want to **pick berries** with your family?
- Looking for a **farmers' market** near you?
- Searching for a farm stand with **native tomatoes**?

**Let BuyCTGrown.com do the looking!**  
[Click here](#) to view a flash demonstration of the site.

**Be the first to know!**  
Subscribe **FREE** to Buy CT Grown and select the information you want us to send you, right when you want it.  
Choose from in-season alerts for you favorite fruits and vegetables, reminders about upcoming food and farm events, or delectable seasonal recipes from Connecticut chefs and more!

**Just enter the information below to get started!**

Email



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Buy CT Grown is a project of CitySeed, Inc. and the Buy CT Grown Steering Committee. It has received grant funding from the CT Department of Agriculture and is supported by the USDA Rural Development Program.

Questions? Contact: Buy CT Grown, c/o CitySeed, PO Box 2056, New Haven, CT 06521 203.773.3736



## Connecticut Climate Change

# Food

Whitney Holiday Dinner, December 6, 2007





## Connecticut Climate Change

# Food





# Connecticut Climate Change

## Hotels



Environment - Windows Internet Explorer

http://www.fairmont.com/en\_fa/aboutfairmont/environment/ecomeet.htm

Edit View Favorites Tools Help

Go Bookmarks 70 blocked Check AutoLink AutoFill Send to

Environment

MEMBER LOGIN ENGLISH

*Fairmont*  
HOTELS & RESORTS

HOME | ABOUT US | DESTINATIONS | FAIRMONT PRESIDENT'S CLUB | MEETING & EVENTS | TRAVEL AGENTS | SEARCH

INTRODUCTION | OUR PHILOSOPHY | OUR HISTORY | PROGRAMS & PARTNERS | CORPORATE RESPONSIBILITY | ENVIRONMENT

GROWING ENVIRONMENTAL STEWARDSHIP

ECO-MEET: GREEN MEETING & CONFERENCE PLANNING OPTION

The Eco-Meet program helps meeting planners by providing a meeting structure that encourages maximum waste diversion and environmental awareness for conference delegates. Eco-Meet consists of options that can be tailored to the individual needs of the client; they can meet their environmental goals while choosing how "green" they want to go.

Download our Eco-Meet Event Planning Guide

PDF documents require Adobe Acrobat Reader.

Internet



## Connecticut Climate Change

# Education



### Connecticut Climate Change

#### This meeting is **Green** – Leading by Example

- Seeking **GOLD** status for Yale Sustainable Event
- Energy – Natural lighting in meeting room; Renewable Energy Credits donated to offset electricity use
- Transportation – Encouraged cleaner transportation and carpooling, including bike access
- Waste – Recycling receptacles provided
- Publicity/Communication – All invites and RSVPs paperless; Minimal handouts printed on recycled paper
- Sustainable catering – Local foods, where possible; reusable dishes, cups, etc.
- Awareness – Info on our sustainable meeting efforts



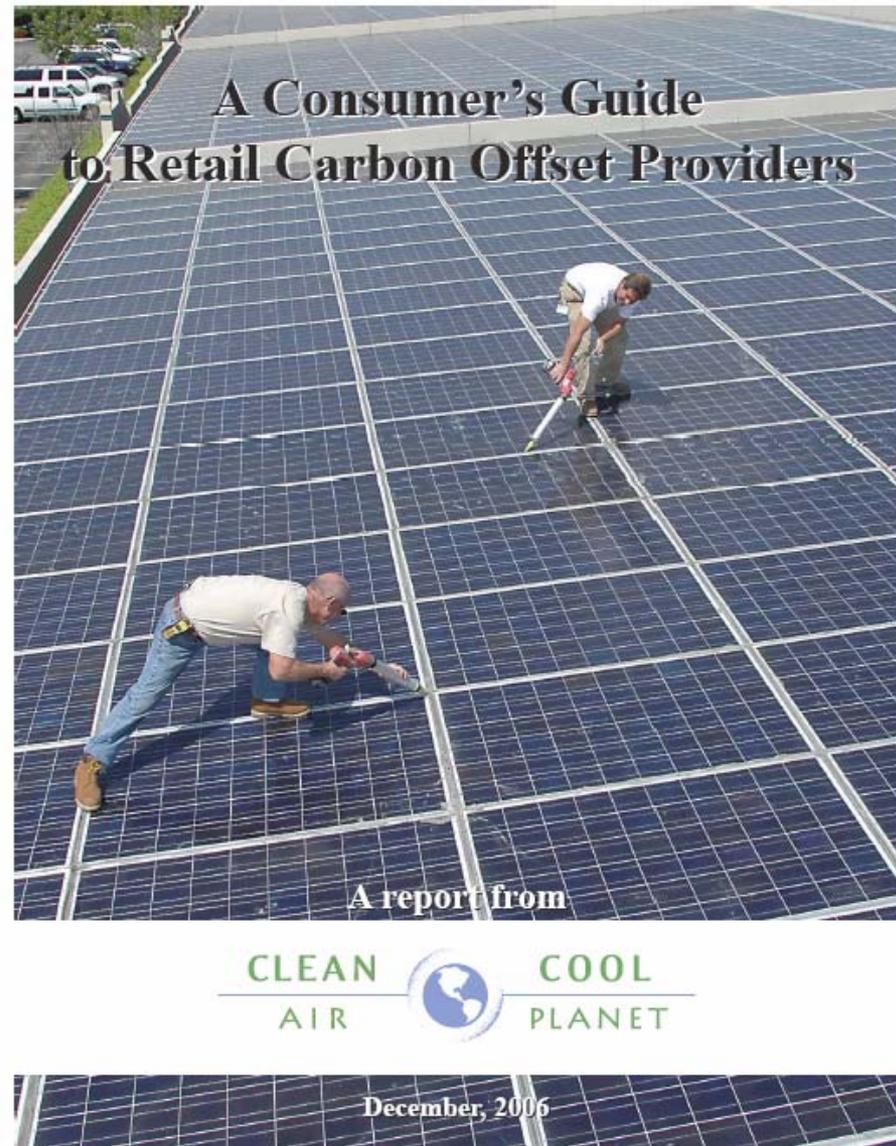
# Connecticut Climate Change Green cleaners





Connecticut Climate Change

# Carbon offsets





## Connecticut Climate Change

# What Can You Do At Home?



Connecticut Climate Change

# onething™



Alter the setting of your heating system. For each degree the thermostat is lowered, you can save 1 to 2 percent on your heating bill. That's

**onething™**  
onethingct.com

## onething is a mindset.

It's the realization that you can have a dramatic impact on our energy future by doing onething.

## a solution.

Reducing energy costs. Preserving the planet. These things are so big, you might think there's nothing you can do about them. But even if you only do onething, you're doing something to solve these problems.

## an action.

It's the onething you can do to save energy at home, on the road or in the workplace. And it's hundreds of things you can choose from every day.

## a movement.

If everyone did onething to save energy, that'd be more than 3-and-a-half million onethings in Connecticut alone. And if everyone did onething every day, that's more than a billion onethings every year.

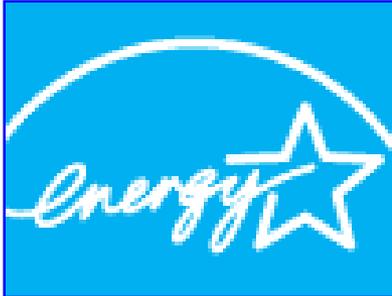
And if onething leads to another, pretty soon there could be so many people doing so many onethings, there would be enough things to change our energy future. And that's everything.

Part of Governor Rell's Energy Vision for a Cleaner, Greener State



# Connecticut Climate Change

# Cut energy costs



Room Air Conditioner (Name or Capacity)

## ENERGYGUIDE

Look for the most efficient energy-using products and the energy star label to compare.

Least efficient model: 5.7      Most efficient model: 9.8

**9.5**      THIS MODEL

Energy Star Rating 2008

The program is based on U.S. Department standards.

How much will this model cost you to run yearly?

Yearly hours of use	250	750	1000	2000	3000
Estimated yearly electricity cost					
Cool per kilowatt	26	34	41	57	84
Minimum	44	58	62	94	107
Hour	\$4	\$13	\$20	\$20	\$24
10	\$17	\$30	\$47	\$134	\$202
20	\$21	\$43	\$68	\$168	\$252
30	\$24	\$56	\$92	\$232	\$336

Adjust table based on local utility for the energy rate listed per kilowatt hour in your area. Your cost will vary depending on your local energy rate and how you use the product.

Important: Removal of this label before consumer purchase is a violation of federal law (42 U.S.C. 6305).





Connecticut Climate Change

# Recycle, compost





## Connecticut Climate Change

# Support clean energy



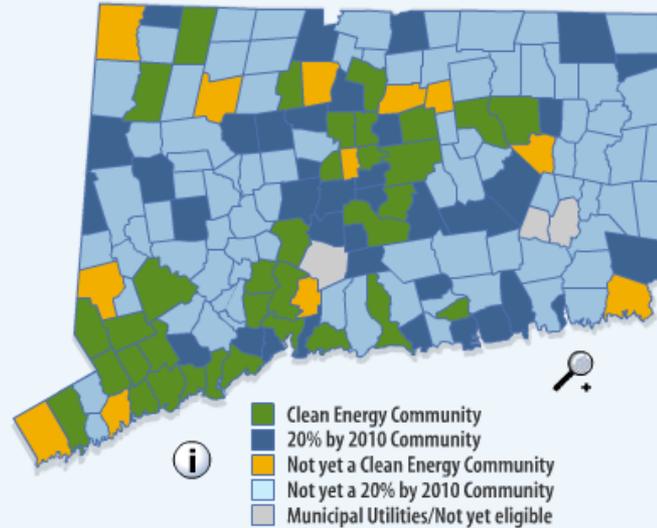
### Free Clean Energy for your community is as easy as 1-2-3

Your city or town can get involved in the push for clean energy by qualifying as a Connecticut Clean Energy Community and at the same time earn free solar electric systems for town buildings. Here is the three-step process:

- 1** Commit to the 20% by 2010 Clean Energy Campaign. [Click here for more...](#)
- 2** Sign-Up local business and residences in your town or city. [Click here for more...](#)
- 3** Make a municipal clean energy purchase. [Click here for more...](#)

For more information on the clean energy status of the various cities and town in the state of Connecticut, click on the map to the right or simply select a town from the drop-down menu above it.

Select Your Town From the List :



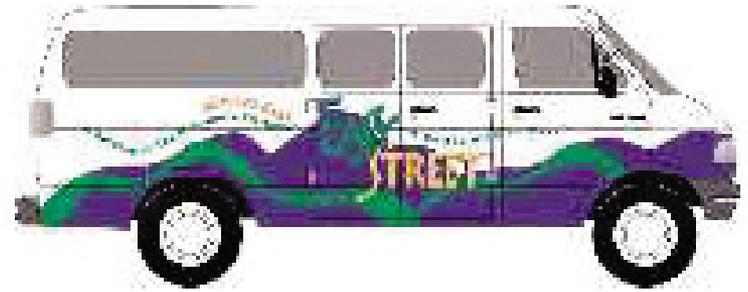
Do your **onething** for today. Sign up to support clean energy - it's a solution to help ensure a better energy future here in Connecticut. [Click here](#) to sign up now.

**SIGN UP!** for CLEAN ENERGY  
[click here to begin](#)



Connecticut Climate Change

# Clean up your commute





Connecticut Climate Change

Buy locally grown food





## Connecticut Climate Change

# Reduce synthetic fertilizer use





Connecticut Climate Change

# Buy an energy efficient vehicle





## Connecticut Climate Change

# Install clean energy at your home





Connecticut Climate Change

What is your

**one**thing™ ??



# Connecticut Climate Change

# www.onethingct.com

The screenshot shows the homepage of the onethingct.com website. At the top, there is a navigation bar with links for Home, Contact Us, About Us, News, Energy Sources, and Resources. A search bar is located to the right of the navigation bar. Below the navigation bar, there is a horizontal menu with categories: Why OneThing?, At Home, At Work, Business Owners, Transportation, My City / Town, My School, and Agriculture. The main content area is divided into several sections:

- onething™**: A Message from the Governor. Includes a photo of the Governor and a "Click Here" link.
- onething™ EXPO**: OneThing Expo. Think of it as the "World's Fair of Energy Conservation." Happening October 10-12, 2008, right here in Hartford! Includes links for "Learn More about Education Day" and "Learn More about Business Day".
- onething™ Tools**: Choose a category below for tools, incentives and more. Includes a dropdown menu for "Select a category" and links for "Where to buy Energy Star products", "Calculate Energy Star savings", and "ENERGY STAR".
- What's OneThing?**: A OneThing is a simple step you take to save energy. But it's more than that. It's also the mindset that you can make a difference. A movement to get everyone involved. And a solution to help ensure a better energy future here in Connecticut. Learn More...
- What's Your OneThing?**: Includes two yellow boxes. The first says "Tell us the OneThing you do to conserve energy by clicking here." The second says "Take the Drive Smarter Challenge and see how you can save money on gas. Click here."
- onething™ tv**: Click to view OneThing TV commercials.
- News**: A list of recent news items, including "OneThing Expo: 'Home of a Million OneThings' at Connecticut Convention Center, October 10-12, 2008" and "Governor Rell Announces Hotline for Furnace Rebate Program". Includes a "View All" link.
- Image Slider**: A series of small images showing people and energy-related activities. Below the slider is the text: "Can you take a shorter shower? Probably. Can you save gallons of hot water every month? Absolutely. That's OneThing."

At the bottom right of the page, there is a small "Internet" icon.



## Connecticut Climate Change

# www.ctclimatechange.com

- Climate change
- Publications
- CT actions – towns, businesses, individuals
- Stakeholder page, public input
- Awards
- News
- Events

The screenshot shows the homepage of the Connecticut Climate Change website. At the top, there is a banner with the text "Working together for a climate we can all live with" and the Connecticut Climate Change logo. Below the banner is a navigation menu with links for Home, Climate Change, Publications, CT Actions, Awards, News & Events, About Us, and Search. The main content area features a welcome message: "Welcome to Connecticut's Official Climate Change Web Site". To the right of this message is a photograph of a blue bus with the slogan "Clearer air. Brighter future." and the number "H302". Below the welcome message is a paragraph of text explaining the state's goals and providing links to "Success Stories" and "Speakers List". At the bottom of the page, there is a thank you message to the Tremain Foundation and the Connecticut Department of Environmental Protection and Clean Energy Fund. The Connecticut state seal is also visible.

**Working together**  
for a climate we can all live with

Connecticut Climate Change

Home | Climate Change | Publications | CT Actions | Awards | News & Events | About Us | Search

**PUBLIC INPUT** and [public stakeholder meetings](#)

[Host a Climate Action Event](#)

[What Can You Do about Climate Change?](#)

[Success Stories](#) on CT Actions

[Speakers List](#)

### Welcome to Connecticut's Official Climate Change Web Site

The New England Governors/Eastern Canadian Premiers and the CT General Assembly have established forward-looking goals to reduce greenhouse gas emissions. On behalf of the Connecticut Governor's Steering Committee on Climate Change, we are pleased to provide information on the [Connecticut Climate Change Action Plan 2005](#), solid [progress](#) in implementing the 55 actions in the plan, inspiring [success stories](#) on action throughout our state, and other information on the Connecticut climate change initiative.

Thank you for your past, current, and continuing participation in Connecticut's climate change initiative.



 **Tremain Foundation**

Special thanks to the [Emily Hall Tremain Foundation](#) for their continued support of Connecticut's Climate Change efforts.

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This site is co-administered by the Connecticut Department of Environmental Protection and the Connecticut Clean Energy Fund at the direction of the Governor's Steering Committee on Climate Change.



## Connecticut Climate Change

It's easy to be green!

