

Planning and Implementing Strategies for a Low Carbon Future

Presented to:

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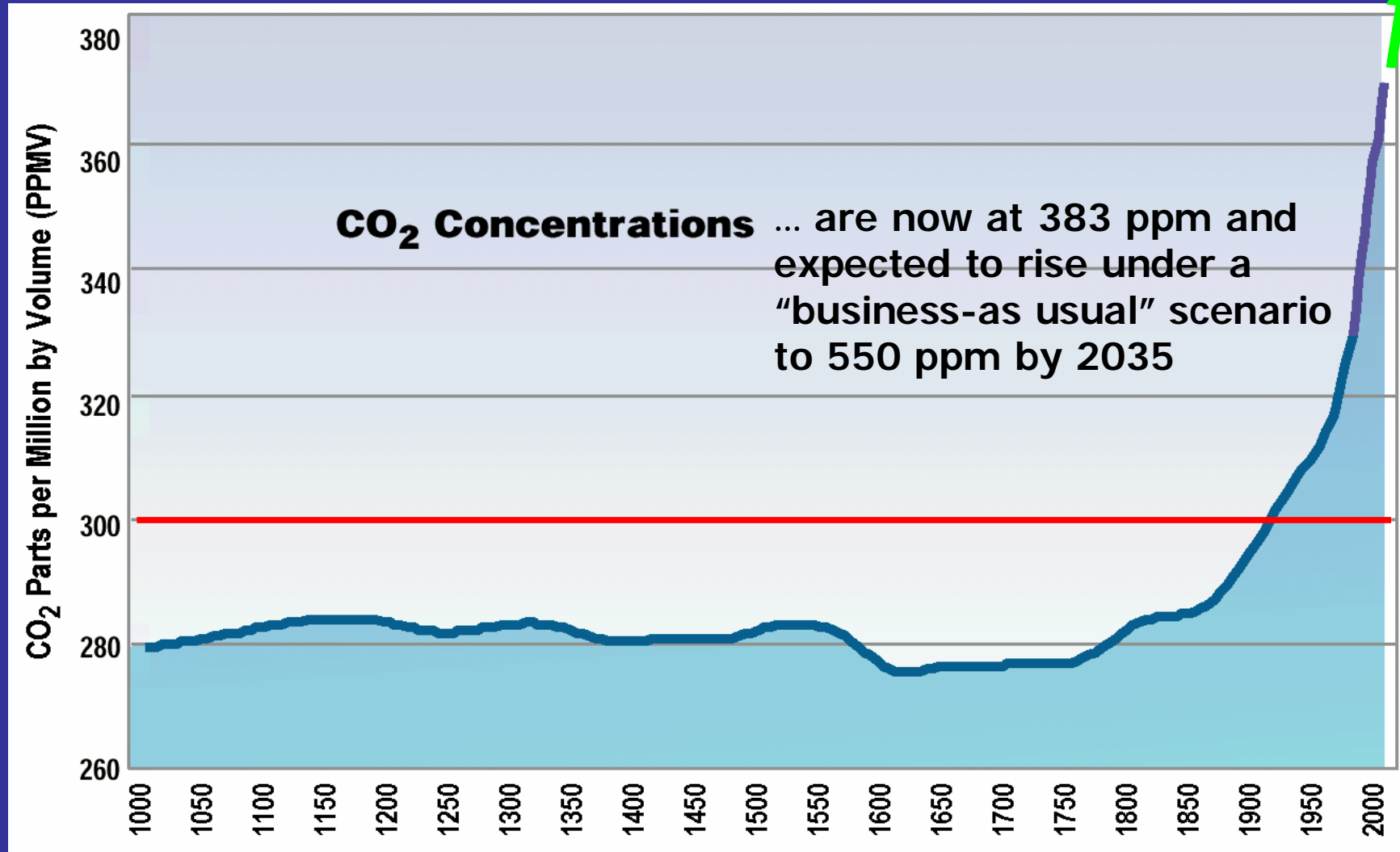
Julia Dunderf, NH Carbon Coalition
Christa Koehler, Clean Air Cool Planet
John Bolduc, City of Cambridge



Today's session

- I. Introductions
- II. Panelists Presentations
- III. Q&A and Inspiration

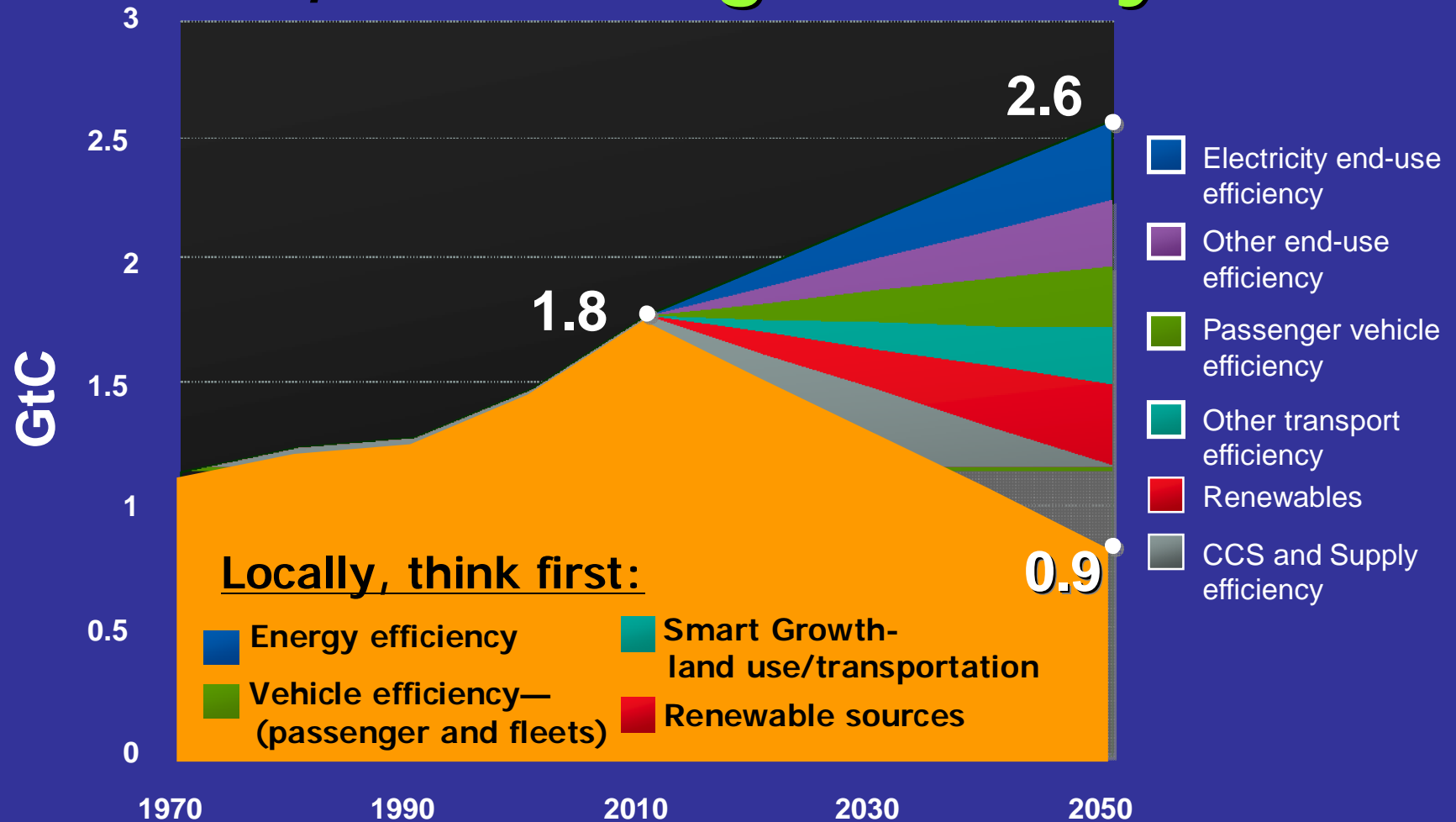
Off the chart -- 383 ppm



CO₂ Trends measured at Mauna Loa Observatory, Hawaii. Source: Dr. Pieter Tans, NOAA/ESRL (www.esrl.noaa.gov/gmd/ccgg/trends/)

U.S. Stabilization?

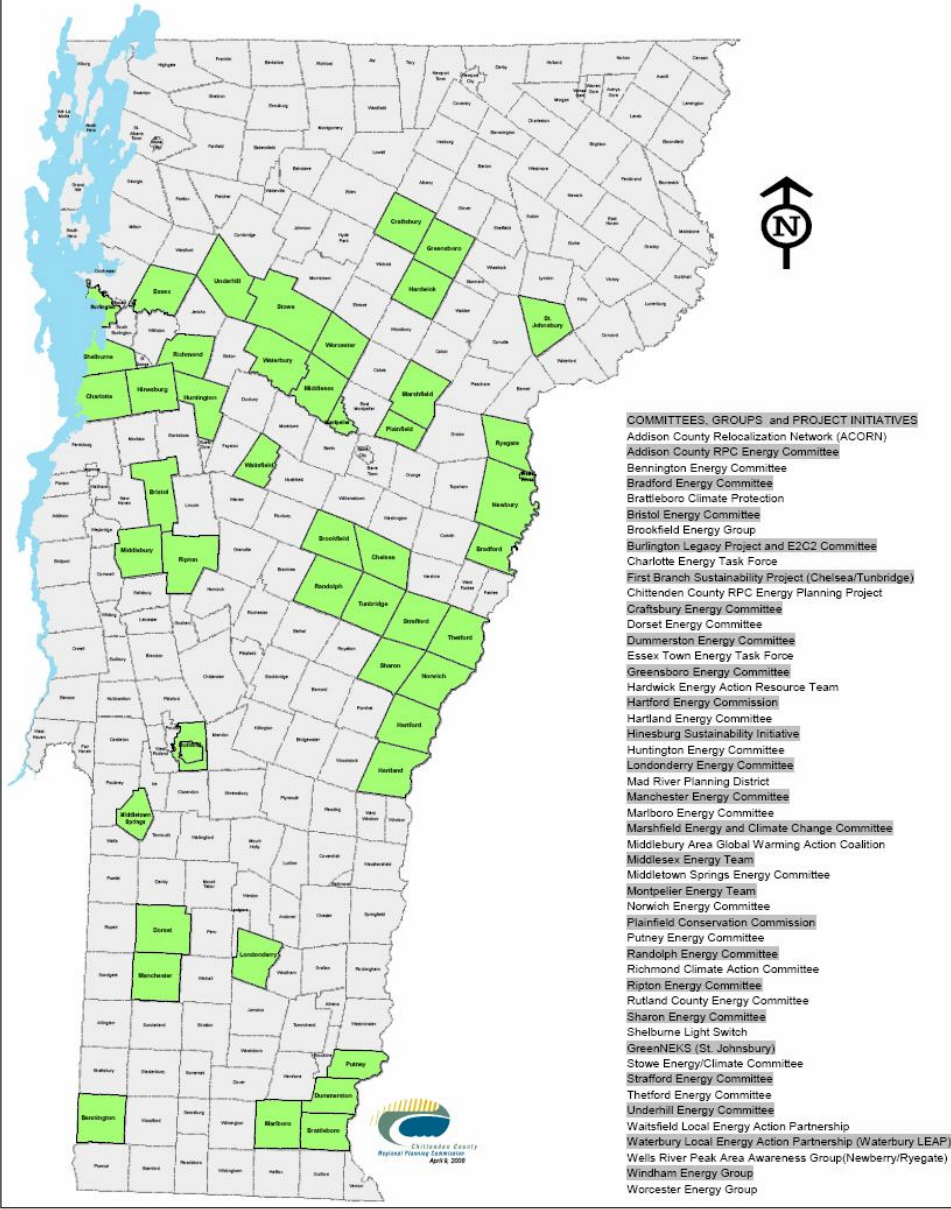
Yes, and it begins locally....



Town Energy Committees and Project Initiatives in Vermont....

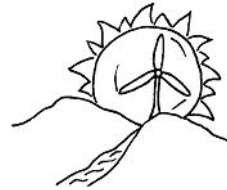
VECAN Mission
To inspire, support, connect and align community-based energy and climate action initiatives working to create a more secure sustainable clean energy future for Vermont.

Vermont Energy & Climate Action Network



Vermont Energy & Climate Action Network

Five founding members



Sustainable Energy Resource Group
"Where Efficiency Makes \$ense"



New England Grassroots
Environment Fund

Thetford Energy Committee

Serving the Town of Thetford Select Board

Street Light Project —Removed one-quarter of street lights, saving energy

CFL sales--RESULTS 1,069 CFL's

Lifetime savings 461,800 kWh

Cost savings \$89,265





Middlebury, VT

[Ad hoc, select board later]

Low Carbon Diet

3 Teams completed including a town staff team

Total of ten families, plus six Town of Middlebury staff @ 5,000 carbon pounds per person/household

Achieved RESULTS--80,000 pounds of CO₂e

Two primary campaigns

- Way to Go! Commuter Challenge and Efficiency First
- Energy Directory—Local Solutions



Brattleboro, VT

[Ad hoc, select board later]

Achieved

TARGET Ghg Reductions

10% town-wide emissions reduction

20% municipal building/facility emissions below
2000 levels

2006 Investment Grade Energy Audit

–Performance contract with Honeywell

RESULTS

Average 33% reduction in oil and
\$42,000 savings last season alone

Hardwick, VT

[Ad hoc, plus select board]

Achieved

GOAL

–3% reduction in electricity use and 35% town-wide participation, inspired by EVT

- Hardwick Energy Action Resource Team
- Community grassroots spirit
- Partnered w/Chamber and Schools
- Town-wide outreach
- Energy audits of buildings
- Classroom programs—energy, history of Hardwick Electric, logo contest

EPA Municipal Energy Challenge

Buildings represent **28% of total VT Emissions**

Seven VT Communities accepted pledge in 2008

10% reduction —32 buildings benchmarked

Three Case Studies —

[So.Burl., Brattleboro, Hinesburg]

RESULTS: 515,000 sq. ft. municipal space
benchmarking,

Energy savings = \$60,383 annually

Carbon Shredders--Waitsfield, VT

Since
March 2008

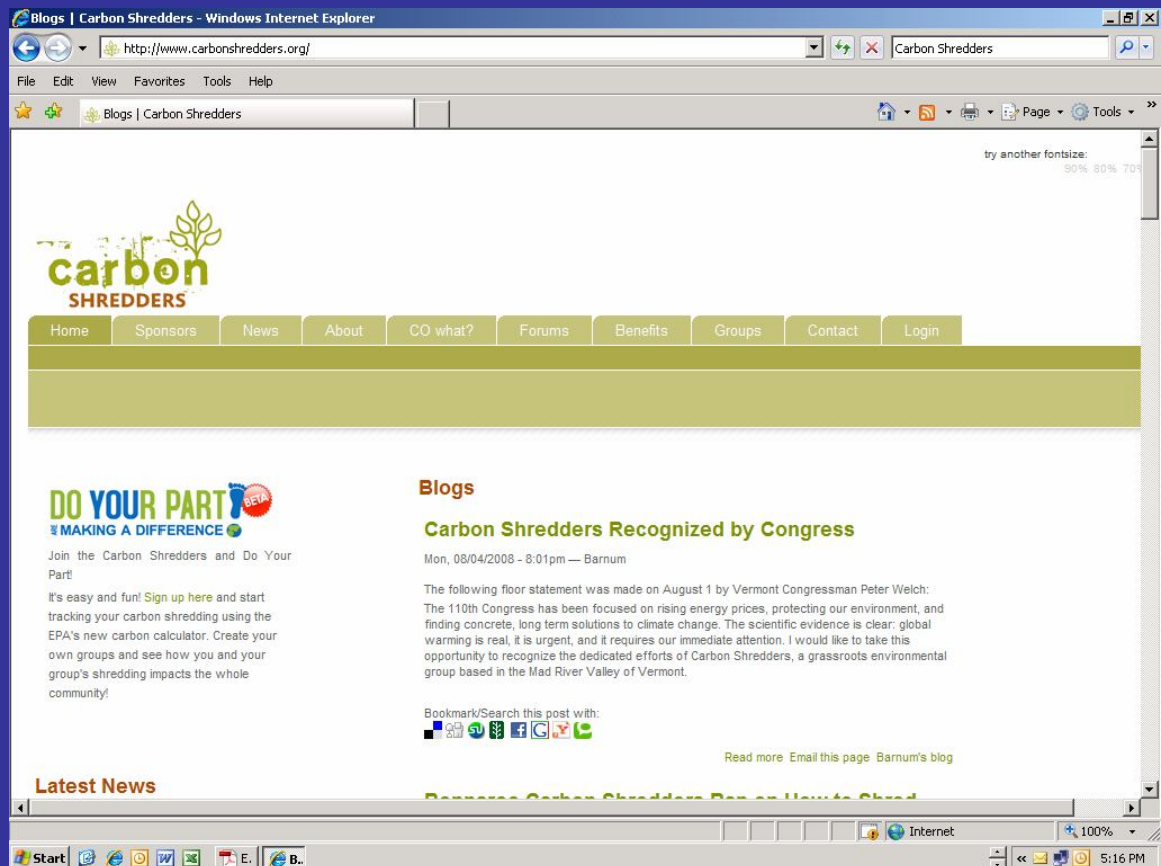
16 Household
Eco-teams

88 Households

(5-6 families each)

Achieved

220,000 pounds
of CO₂ savings



Why Local Action Now?

- Experience more pain and human suffering from climate change and corresponding planetary destabilization
- Urgency to take action now “How long would you drive your car with temp gauge in the red zone?”
- Availability and Volatility Fuel Prices (Average price of gasoline has more than tripled in the last seven years)
- Price increases are causing severe impacts on low and fixed income households

Communities can/should LEAD by Example

Think integrated design/integrated development