



# Comprehensive Energy Plan

Initial Stakeholders Meeting:  
Transportation and Land Use  
Energy Issues

# Welcome!

## DPS Staff on the CEP Team:

- Liz Miller, Commissioner
- Dave Lamont, Retired Planning Director
- Kelly Launder, Assistant Planning Director
- Andy Perchlik, Executive Director of the CEDF
- T.J. Poor, Energy Efficiency Specialist
- Ed Delhagen, Facilitator and Energy Programs Specialist
- George Nagle, Utility Planner
- Karin McNeill, Energy Program Specialist



# Agency & Department Partners:

- Agency of Natural Resources, including DEC
- Agency of Transportation
- Agency of Agriculture
- Agency of Commerce and Community Development
- Agency of Human Services
- Department of Buildings and General Services
- Department of Health

# Format for the meetings:

- Brief presentation by our staff to set the framework
- Opportunity for break out groups to discuss our planning process and goals
- Facilitated group discussion to provide feedback

... Help us set the path for Vermont's energy future.

# Today is just the beginning

- Plans for future engagement:
  - Kick-off meetings
  - Web-based comment opportunity
  - Public Hearings Summer 2011 – new draft CEP
- Goal: October 15, 2011 Final Recommended CEP

# Comprehensive Energy Plan: What is it?

- Title 30, Section 202b – the CEP must include:
  - (1) A **comprehensive analysis and projections** regarding the **use, cost, supply and environmental effects** of **all forms of energy resources** used within Vermont.
  - (2) **Recommendations** for state implementation actions, regulation, legislation, and other public and private action to carry out the comprehensive energy plan.
- Title 30, Section 202 – Also our updated Electric Plan

# Why do we create a CEP?

- Title 30, Section 202a:
  - To assure, to the greatest extent practicable, that Vermont can meet its energy service needs in a manner that is **adequate, reliable, secure and sustainable**; that assures **affordability** and encourages the state's **economic vitality**, the **efficient use** of energy resources and cost effective demand side management; and that is **environmentally sound**.
- Recommendations based upon all state law on the subject: e.g., GHG reduction goals, SPEED goals, Standard Offer

# What the CEP does not do:

- Prescribe outcomes on specific pending projects
- Analyze relicensing of Vermont Yankee

# Overarching Goals of CEP:

1. Address All Energy Sectors
2. Strive for lower GHG footprint, toward state law targets
3. At a cost that keeps Vermont regionally competitive

# Use of Stakeholder Draft:

- DPS has not adopted a CEP since 1998; Electric Plan adopted in 2005.
- 2008 CEP process did produce a draft.
- Staff attempted to include in that draft all of the details required by statute in a CEP.
- Staff has worked on updates, including recently.
- Land Use added significantly since 2008 draft.
- Updated Engagement Draft is a starting point.

# Overlap with other state activities:

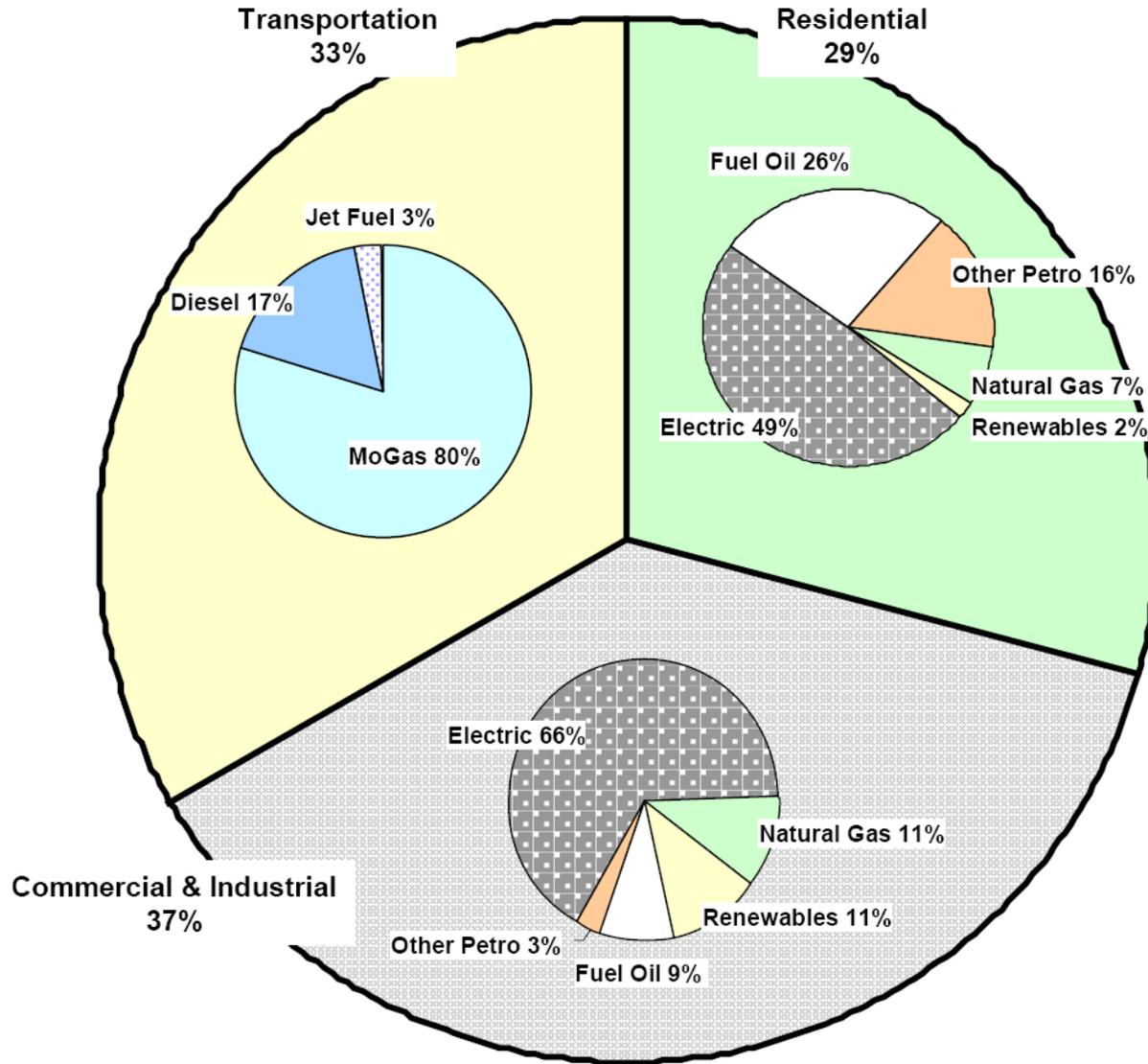
- Legislature: new statutory mandates and public engagement process
- Climate initiatives – Cabinet-level action and interagency committees such as Climate Neutral Working Group
- State Agency Energy Plan
- Vtrans planning
- Agency of Agricultural energy initiatives
- ACCD – green energy jobs initiatives

# Utilizing other initiatives & plans:

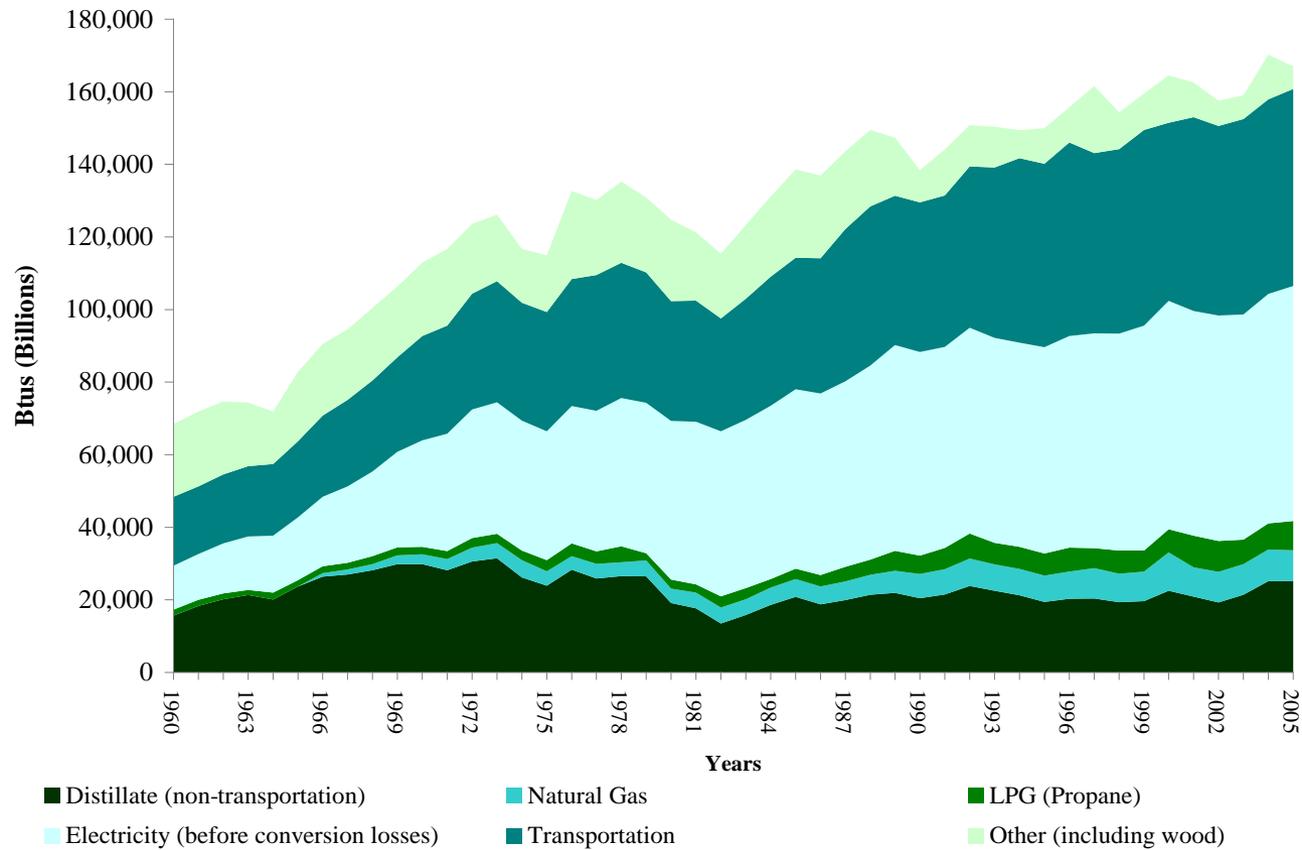
- Many examples of detailed, important work elsewhere in VT
- Currently engaging in process of inventory and review
- Need to recognize and utilize expertise outside of state government
- Town Energy Committees; Transportation Groups; Environmental/Land Use Groups...

# Vermont Energy End-Use By Source, 2008

(Percent of Total BTU's Consumed)



# Vermont Energy Consumption by Selected Categories 1960–2005



# Why Transportation and Land Use?

- About two-thirds of statewide energy use is not electricity, but instead is transportation and land use.
- The integration between the two is very important: many transportation decisions work best when coupled with land use decisions, and the converse is also true.

# Emissions and Current Targets

## VT GHG Emissions (MMTCO<sub>2</sub>e)

	1990	1995	2000	2005	2010	2012	2028
Electricity Supply (Consumption)	1.09	0.77	0.44	0.64	0.34	0.34	0.94
Fossil Fuel Industry	0.012	0.012	0.012	0.014	0.015	0.015	0.017
RCI Fuel Use	2.43	2.43	2.88	2.98	2.41	2.43	2.56
Transport Gasoline Use	2.64	2.82	3.20	3.29	2.99	2.95	2.61
Transport Diesel Use	0.41	0.84	0.66	0.69	0.62	0.64	0.77
Jet Fuel/Other Transport	0.16	0.12	0.13	0.21	0.24	0.24	0.25
Agriculture	1.00	0.93	0.96	0.92	0.87	0.86	0.83
Industrial Processes (ODS Subs., HFCs, SF6)	0.12	0.25	0.27	0.30	0.33	0.36	0.77
Waste Management	0.24	0.28	0.31	0.29	0.25	0.24	0.16
<b>TOTAL</b>	<b>8.11</b>	<b>8.45</b>	<b>8.86</b>	<b>9.34</b>	<b>8.07</b>	<b>8.08</b>	<b>8.90</b>

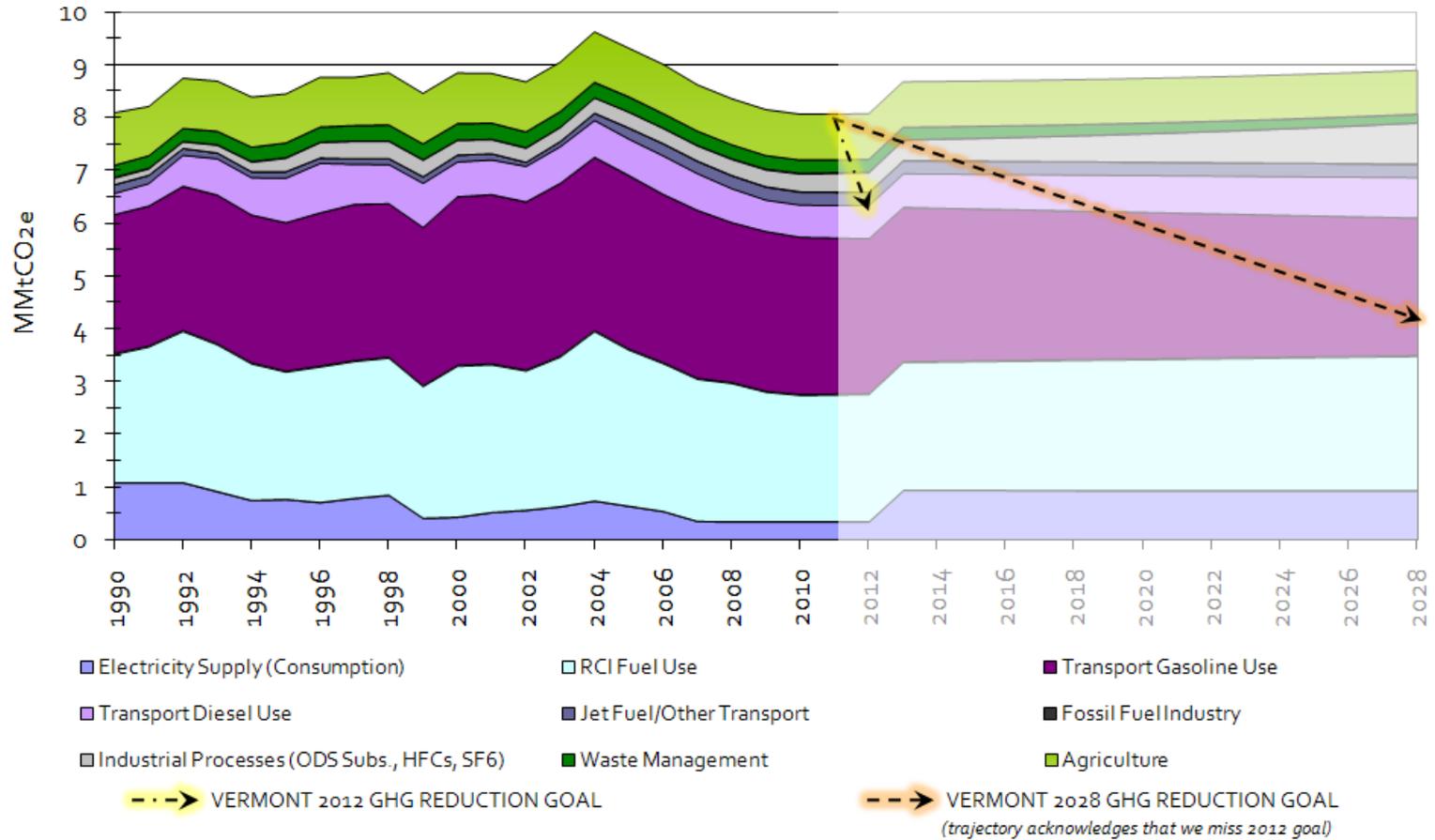
### Vermont GHG Goals

Difference from estimated forecast

<b>6.08</b>	<b>4.06</b>
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-2.00    -4.84

# VT GHG Emissions (MMtCO<sub>2</sub>e)



Thank You For Coming ...

