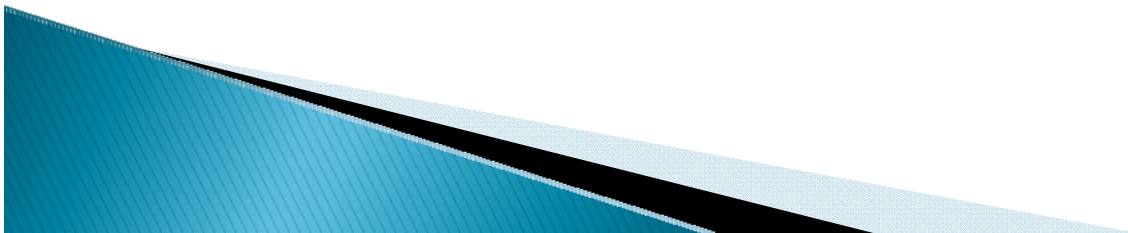




State of Vermont Climate/Energy Action Issues and Outline of Efforts

April 7, 2011





**VERMONT
GREENHOUSE GAS
EMISSIONS INVENTORY
UPDATE
1990-2008**

Million Metric Tons CO ₂ Equivalent (MMTCO ₂ e)	Year					
	1990	1995	2000	2005	2007	2008
TOTAL GROSS EMISSIONS	8.11	8.45	8.86	9.34	8.65	8.37
<i>Change relative to 1990</i>	-	+4%	+9%	+15%	+7%	+3%



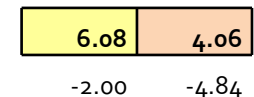
http://www.anr.state.vt.us/anr/climatechange/Vermont_Emissions.html

Emissions and Current Targets

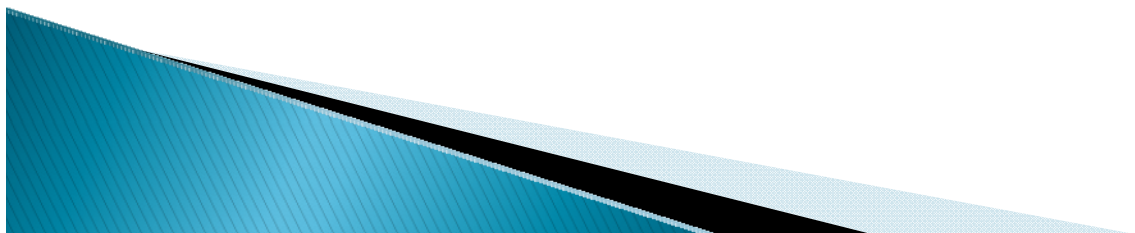
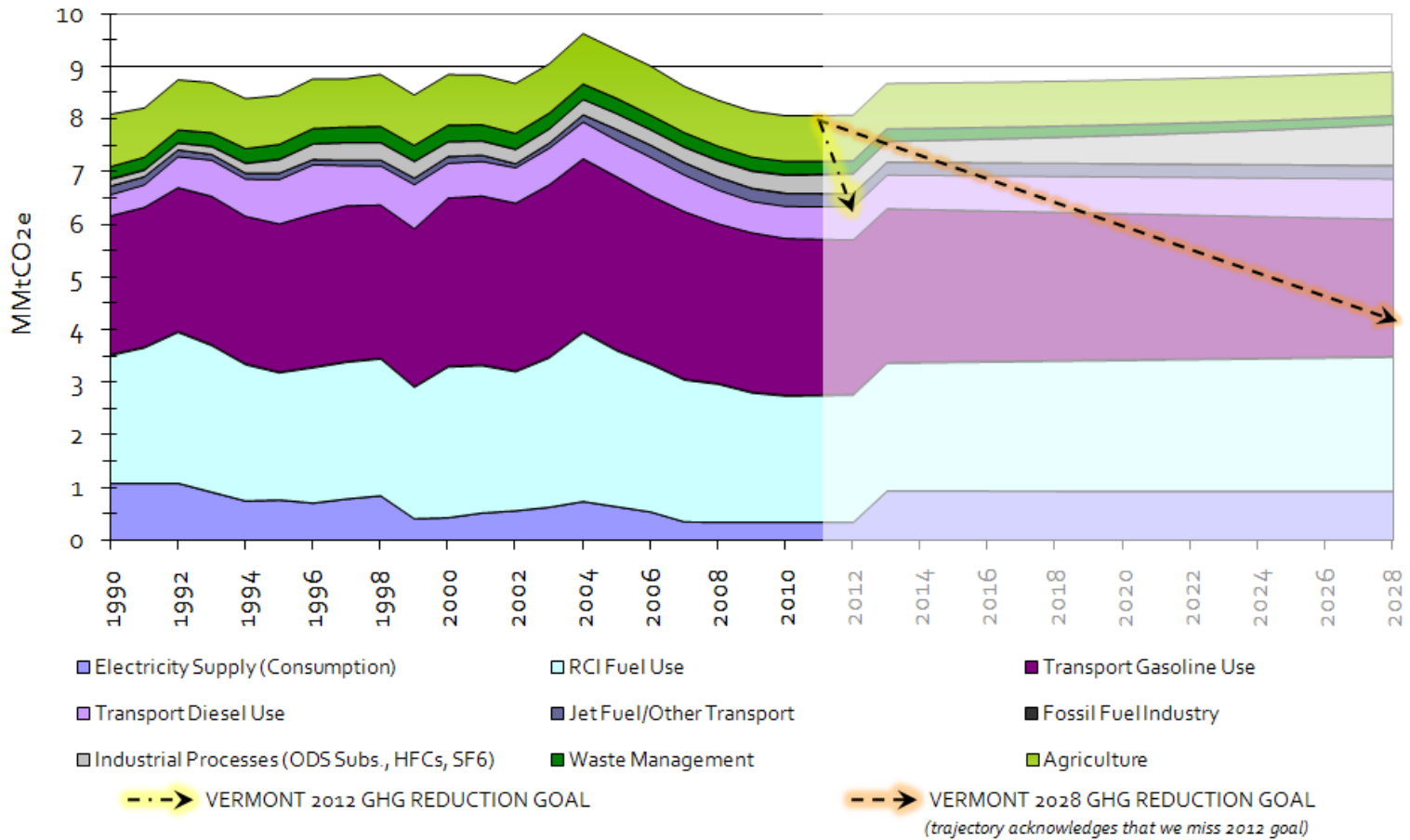
VT GHG Emissions (MMT_{CO2e})

	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
TOTAL	8.11	8.45	8.86	9.34	8.07	8.08	8.90

Vermont GHG Goals
Difference from estimated forecast



VT GHG Emissions (MMtCO₂e)



Efforts and Goals to date...

Executive Orders:

- Climate Change Action Plan for State Government Buildings and Operations / Establishing the Climate Neutral Working Group.
(See: <http://www.anr.state.vt.us/air/planning/docs/EO%2014-03.pdf>)
- Executive Order #11-02 originally established under Governor Dean – Aug 22, 2002
- Replaced by Executive Order #14-03 under Governor Douglas – Sept 16, 2003
- Vermont Governor's Commission on Climate Change – Executive Order #07-05 Dec 5, 2005 – (GCCC final report issued Oct 2007)

(See: <http://www.anr.state.vt.us/anr/climatechange/Pubs/GCCC%20Appendix%201.pdf>)

Efforts and Goals to date (cont.) ...

- **Vermont Greenhouse Gas Reduction Goals in Statute:**
Title 10: Conservation and Development Chapter 23: AIR POLLUTION CONTROL – 10 V.S.A. § 578. Greenhouse gas reduction goals (See: <http://www.leg.state.vt.us/statutes/fullsection.cfm?Title=10&Chapter=023&Section=00578>)
- **Climate Change Transition Team Report (Oct 2008):**
Representatives from 4 state agencies (Agency of Natural Resources, Agency of Transportation, Agency of Agriculture Food & Markets & Department of Public Service), known collectively as the Climate Change Transition Team (CCTT) worked for 5 months to review the recommendations in the Governor's Commission on Climate Change (GCCC) Report (October 2007) and to develop work plans for each recommendation.

The resulting report provides these draft work plans and also serves as a current inventory of ongoing activities and programs that either directly or indirectly address the climate change/GHG emission issue.

- (See: http://www.anr.state.vt.us/air/Planning/docs/0926_CCTT_final_report_hyperlinked.pdf)
- Other potentially useful links can be found at <http://www.anr.state.vt.us/anr/climatechange/Library.html>

VT Climate/Energy Action Outline

- **Coordinate Multiple Efforts – Work to date**
 - Vermont Climate Collaborative
 - 25 X '25
 - Climate Neutral Working Group

- **Integrate CO2e Emissions analyses with Energy Plan**
 - Recommendations become joint energy/climate recommendations

- **Establish Climate/Energy Cabinet for implementation**
 - Identify the relevant organizations / stakeholders / ongoing activities
 - Identify the roles of state government and propose roles for other organizations. Roles should be complimentary, with minimal overlap and open communications/information sharing capability
 - All work should be towards the dual goals of reducing the state's GHG emissions as described in 10 VSA 578 and developing climate change adaptation plans.