



Vermont

Governor's Commission on Climate Change

Vermont
Governor's Commission
on Climate Change
Plenary Group Meeting #6
June 21, 2007



VERMONT
ENVIRONMENTAL CONSERVATION



CENTER FOR CLIMATE STRATEGIES

Today's Agenda

- Welcome and Introductions
- Review and Approval of GCCC-PG Meeting #5 Summary
- Update on Recent Climate Developments and State Climate Actions
- Review and Approval Draft Policy Options
- Review of Updates to the Vermont Greenhouse Gas Emissions Inventory & Forecast, if needed
- Public Input and Announcements
- Date, Time, and Agenda for Final GCCC-PG Meeting

Meeting Schedule

Date	Action
September 7, 2006	1 st GCCC-PG meeting
November 8, 2006	2 nd GCCC-PG meeting
January 18, 2007	3 rd GCCC-PG meeting
March 22, 2007	4 th GCCC-PG meeting
May 17, 2007	5 th GCCC-PG meeting
June 21, 2007	6th GCCC-PG meeting
July 26, 2007	7 th & Final GCCC-PG meeting
August 2007	GCCC review meetings (as needed)
Between PG Meetings	Technical Work Group conference calls and meetings

Recent Climate Developments and State Climate Actions

- Western Climate Initiative (formerly WRCAI)
 - Utah joining
 - Clean Car and Low Carbon Fuel Standard prerequisites
- Maryland Commission launched
- Federal G-8 Climate Proposal
- Developments in VT Clean Car Litigation?

Ten-Step Work Plan

1. **Get organized**
2. **Develop initial GHG inventories and forecasts**
3. **Identify possible GHG mitigation policy options**
4. **Identify initial priority policy options for first round evaluation**
5. **Draft straw design proposals for draft policy options**
6. **Evaluate GHG reduction potential; costs or cost savings**
7. **Identify potential barriers to consensus, alternatives**
8. **Modify, add, or subtract policy options as needed**
9. **Evaluate cumulative results of policy options**
10. **Finalize emissions projections, recommendations, and report language**

PG Review and Approval of Pending Policy Options

- TWG facilitator presents proposed options
- Cover clarifying questions and comments
- Identification of objections, alternatives
 - If no objections, option is approved as final
 - If objections, PG discusses proposed alternatives and votes again if/as needed
 - Options not agreed to in full at this meeting will be referred back to TWGs and presented at the final GCCC-PG meeting

Energy Supply & Demand

- **ESD-1: Evaluation and continuation / expansion of existing DSM for electricity and natural gas**
- **ESD-2: Evaluation and expansion of DSM to Other Fuels**
- **ESD-3: Building Efficiency Codes, Training, Tracking**
- **ESD-4: Evaluate Potential for Contracting Nuclear Power**
- **ESD-5: Support for Combined Heat and Power**

Energy Supply & Demand

- **ESD-6: Incentives and/or Mandate for Clean Electricity**
- **ESD-7: GHG Cap and Trade and/or CO2 tax**
- **ESD-8: Incentives for Clean Consumer Technologies for Electricity or Heat**
- **ESD-9: Wind-specific support measures**
- **ESD-10: Hydro-specific support measures**

Transportation & Land Use

- **TLU 1: Compact and Transit-Oriented Development Bundle**
- **TLU 2: Alternatives to Single-Occupancy Vehicles (SOV)**
- **TLU 3: Vehicle Emissions Reductions Incentives**
- **TLU-4: Pay As You Drive Insurance**
- **TLU-5: Alternative Fuels and Infrastructure**

Transportation & Land Use

- **TLU-6: Regional Intermodal Transportation System (freight and passenger)**
- **TLU-7: Commuter Choice / Parking Cash Out**
- **TLU-8: Plug-In Hybrids**
- **TLU-9: Fuel Tax Funding Mechanism**

Break



Agriculture, Forestry & Waste Resource Management

- **AFW-1: Programs to Support Local Farming / Buy Local**
- **AFW-2: Agricultural Nutrient Management Programs**
- **AFW-3: Manure Management Methods to Achieve GHG Benefits**
- **AFW-4: Protect Open Space / Agricultural Land**
- **AFW-5: Forestry Programs to Enhance GHG Benefits**
- **AFW-6: Increased Forest Biomass Energy Use**

Agriculture, Forestry & Waste Resource Management

- **AFW-7: Forest Protection – Reduced Clearing and Conversion to Non-Forest Cover**
- **AFW-8: Expanded Use of Durable Wood Products (especially from VT sources)**
- **AFW-9: Advanced / Expanded Recycling and Composting**
- **AFW-10: Programs to Reduce Waste Generation**
- **AFW-11: Waste Water Treatment - Energy Efficiency Improvements**
- **AFW-12: Increase In-State Liquid Biofuels Production – Ethanol and Biodiesel**

Cross-Cutting Issues

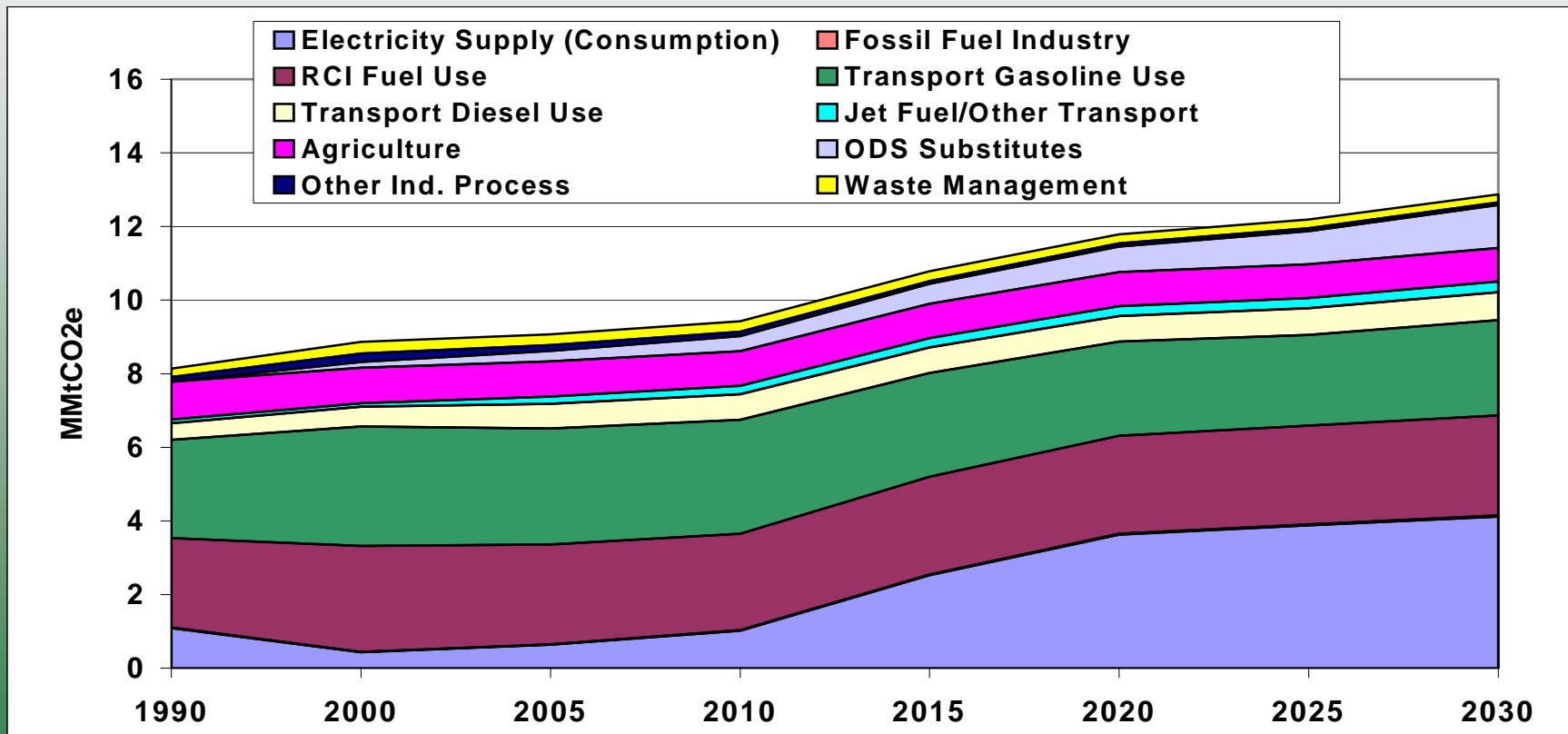
- **CC-1: GHG Inventories and Forecasting**
- **CC-2: GHG Reporting**
- **CC-3: GHG Registry**
- **CC-4: Public Education and Outreach**
- **CC-5: Adaptation**
- **CC-6: GHG Reduction Goals and Targets**
- **CC-7: State GHG Emissions (Lead by Example)**

Updates to GHG Inventory and Reference Case Projections

- CA Low-Emission Vehicle Standards
 - Incorporated into reference case projections for 2009-2030
 - Change relative to prior baseline, lowers:
 - 2010 emissions by 0.3 MMtCO₂e
 - 2020 emissions by 0.9 MMtCO₂e
 - 2030 emissions by 1.3 MMtCO₂e
- Forest Soil Carbon Emissions
 - Removed from net emissions per recent discussions with US Forest Service (estimate is too uncertain)
 - Estimate for VT was -0.7 MMtCO₂e

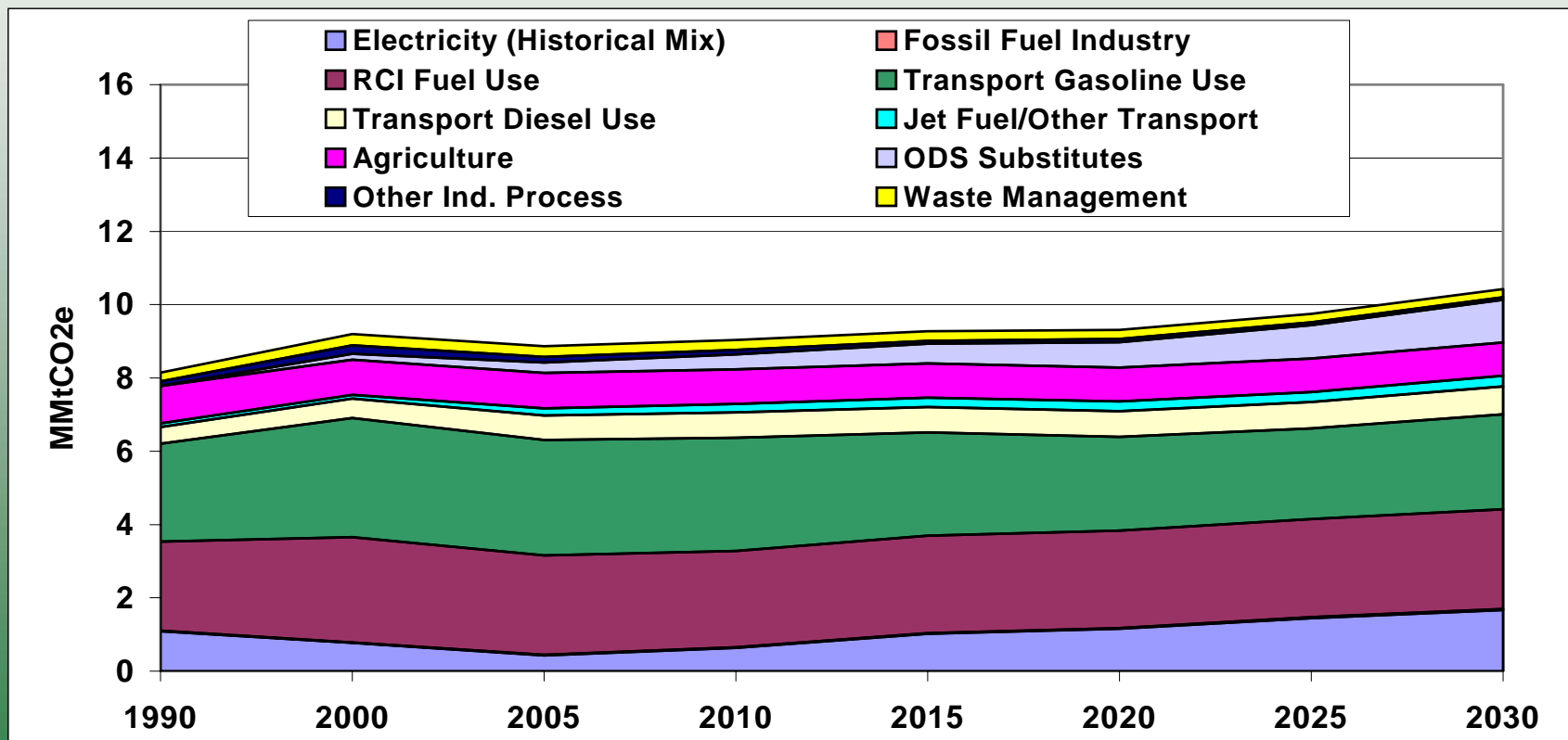
Gross GHG Emissions By Sector, 1990-2020

With System Average Electricity Mix Forecast

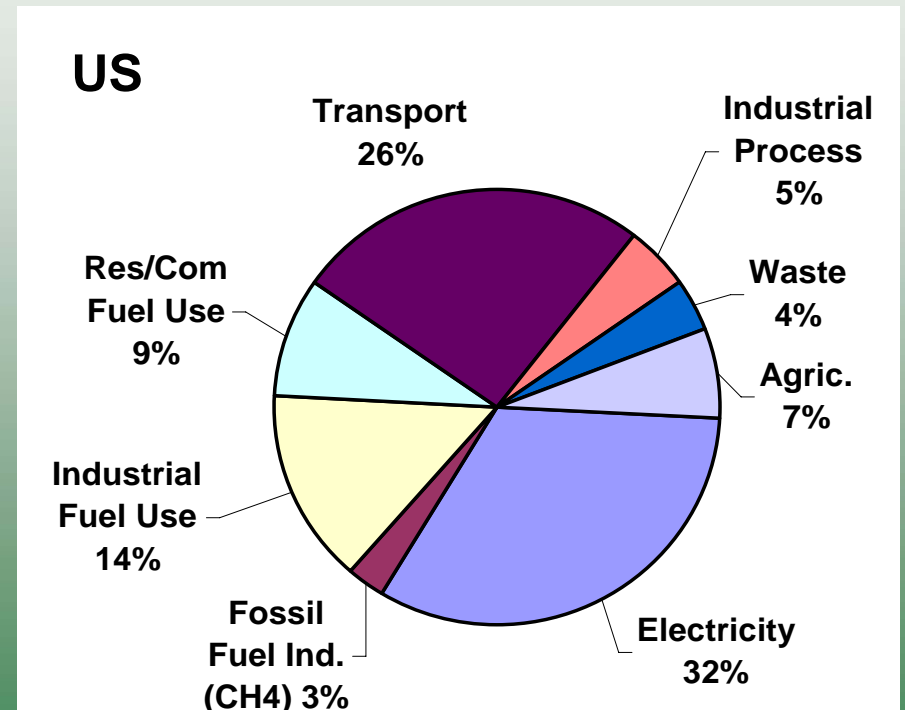
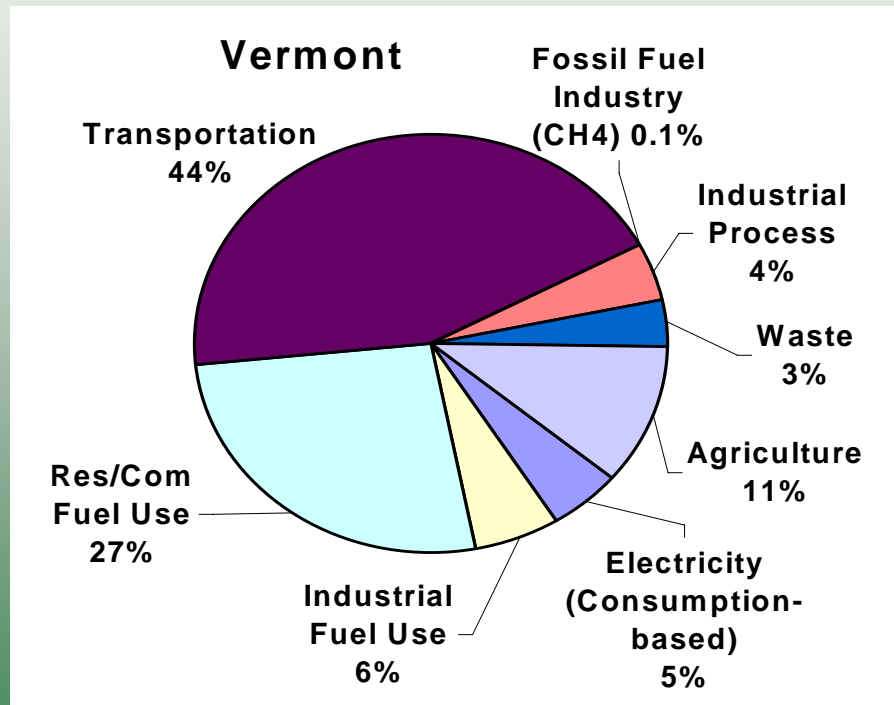


Gross GHG Emissions By Sector, 1990-2020

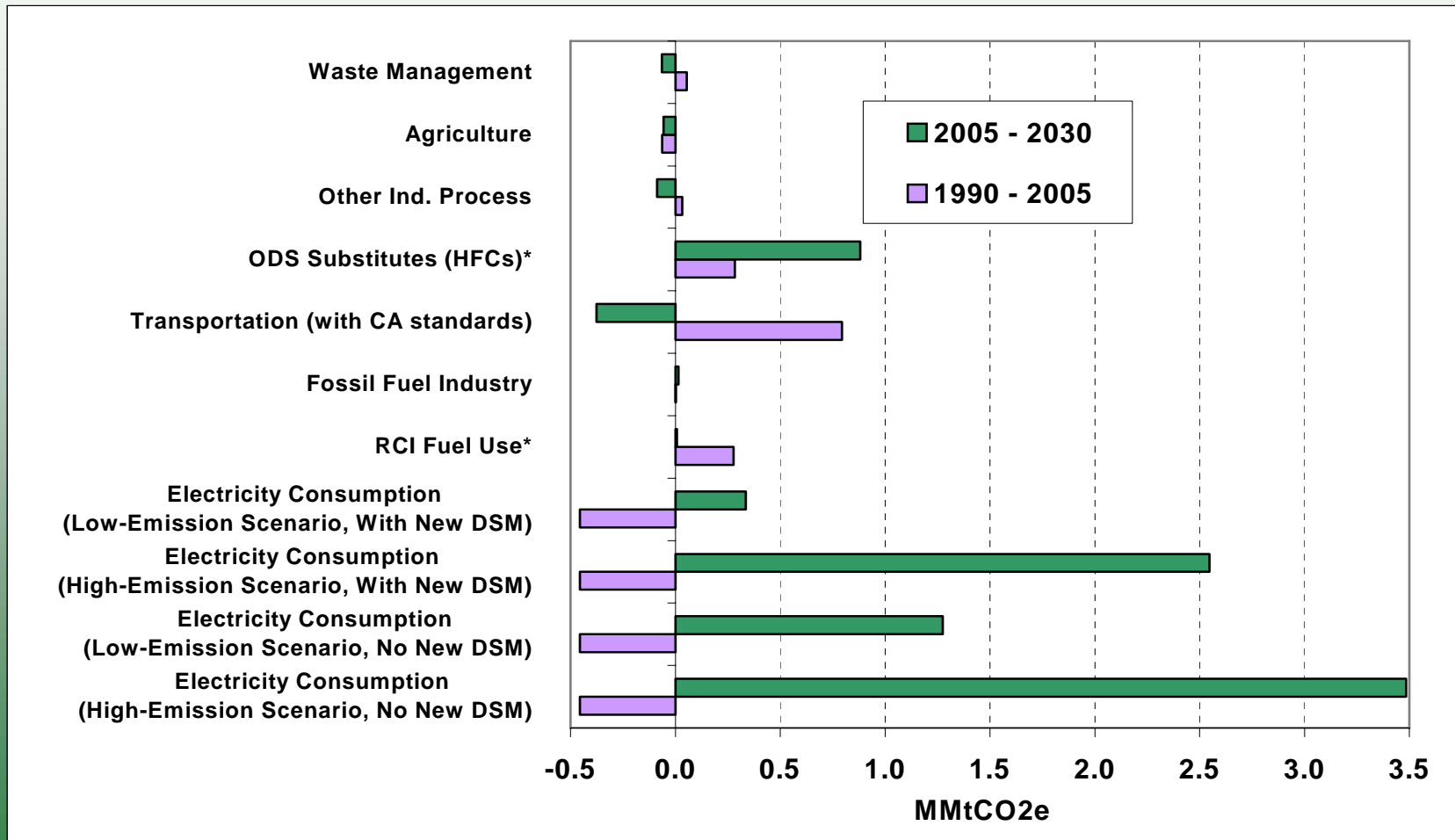
With Hypothetical Historical Electricity Mix Forecast



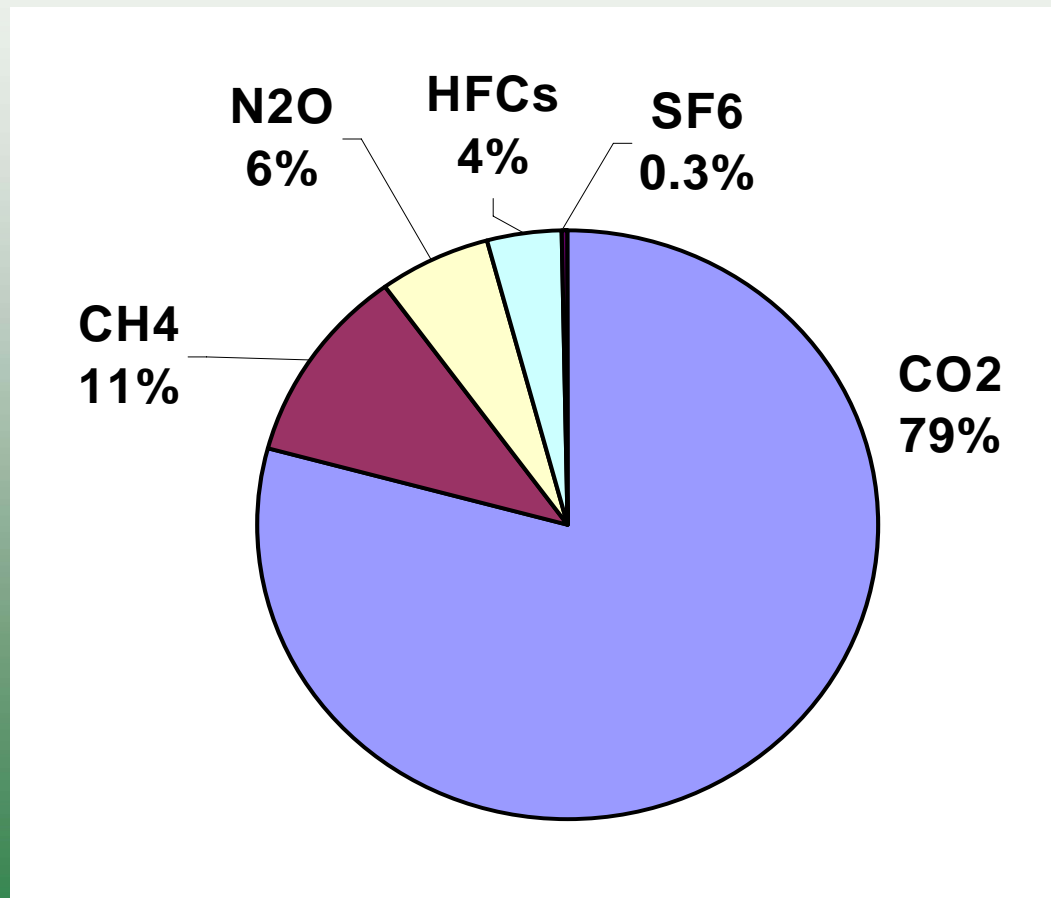
Vermont & US Emissions By Sector, Year 2000



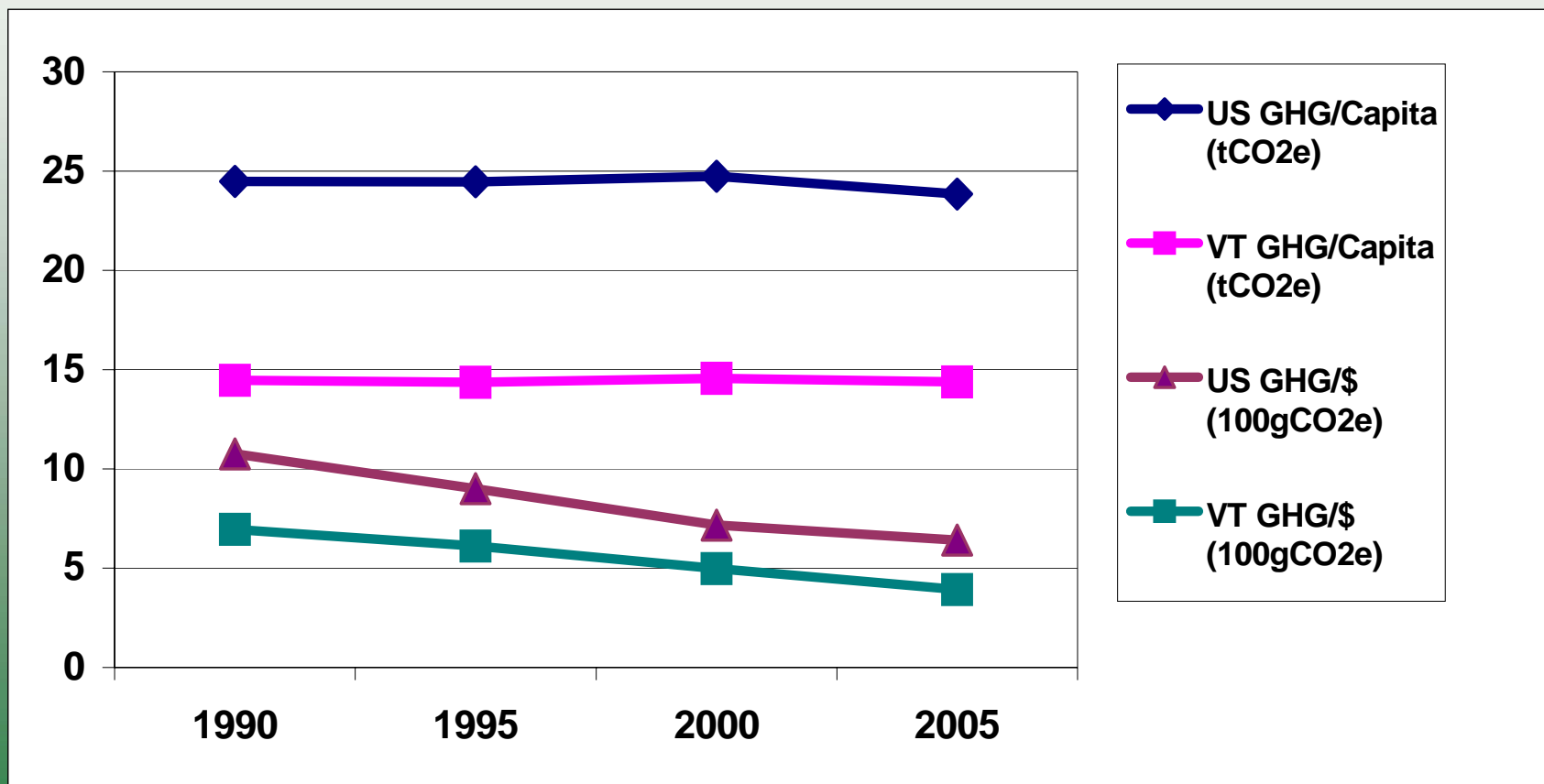
Vermont Emissions Growth



Vermont Emissions By GHG, Year 2000



Per Capita and GSP/GDP Gross GHG Emissions, 1990-2002



Public Input, Announcements

Next Plenary Group Meeting

- Agenda:
 - Review and approval of remaining draft policy options
- Next Meeting:
 - Thursday, July 26, 2007
 - Room 11, State House

