



GHG Inventory Update

Governor's Commission on Climate Change

September 10, 2008



GHG Reduction Goal for 2025

- Updated traffic estimates
- Natural sinks not included
- 2000 = 163 MMte
- 2025 = 230 MMte
- 30% reduction = 69 MMte
- Target emissions level = 161 MMte



Natural Carbon Sequestration

- Current Estimate: 23 MMte removed
 - Only addresses forest sinks
- No good data on other sinks
 - Wetlands, urban trees, etc.
- Much more research needed
- VA is losing forest land
 - 27,300 acres per year
- Forest balance moving towards equilibrium
 - May have no net reduction by 2025
- Not included in the 2025 inventory or reduction goal



Virginia Energy Plan

- **Energy Conservation**
 - Reduced electricity consumption & non-trans fuel use (10%)
 - Reduced natural gas consumption (7%)
 - Reduced transportation fuel use (5%)
- **Renewable Energy**
 - Voluntary Renewable Portfolio Standard
 - 4% in 2012, 7% in 2017, and 12% by 2022
- **Increased Energy Production**
 - Increase instate energy production by 20% by 2017
- **Cumulative impact on GHG emissions**
 - 25 MMte reduction in 2025
 - 36% of total reduction target

Virginia Energy Plan Reductions

