

New York State



Climate Action Council

New York State Climate Action Plan

New York State Metropolitan Planning Organization
Annual Conference

June 15, 2010
Syracuse, New York

Carl Mas

New York State Energy Research and Development Authority

www.nyclimatechange.us



Purpose and Goals

- On August 6, 2009, Governor Paterson signed Executive Order No. 24 setting a goal to reduce greenhouse gas emissions in New York State by 80 percent below 1990 levels by 2050.
- The Executive Order also created the Climate Action Council (CAC) with a directive to prepare a draft Climate Action Plan (CAP).
- The CAP will assess how all economic sectors can reduce greenhouse gas emissions and adapt to climate change, and identify the extent to which such actions support New York's goals for a clean energy economy.



Climate Action Council

Val Grey- Chair

DEC, NYSERDA, Ag & Mkts, DED, DHCR, DOT, PSC, MTA, LIPA, NYPA, DASNY, DOS, DOB, DSO & Gov's Counsel

Executive Directors: Janet Joseph (NYSERDA) & Alan Belenz (DEC)

Vision 2050

Integration Advisory Panel

Power Supply and Delivery

Residential, Commercial and Industrial

Agriculture, Forestry and Waste

Transportation and Land Use

Adaptation



Current Climate Change Initiatives in New York State

- **Energy and climate planning**
- **Greenhouse gas emission controls and reporting**
- **Energy efficiency and renewable energy initiatives**
- **Climate research and analysis**
- **Local initiatives**
 - **Climate Smart Communities and PlaNYC**
- **Emerging technology**
 - **Plug-in hybrid vehicles**
 - **Battery and Energy Storage Consortium**
 - **NY Smart Grid consortium**
 - **Carbon capture and sequestration**



2009 New York State Energy Plan

www.nysenergyplan.com

- **Climate Change Issue Brief**
 - Develop a Climate Action Plan
- **Clean Energy Strategies in Energy Plan**
 - Use energy more efficiently
 - Support development of in-state renewable resources
 - Invest in energy/transportation infrastructure to reduce GHG emissions and achieve other objectives
 - Stimulate innovation in the clean energy economy



Greenhouse Gas Emission Controls and Reporting

- **Regional Greenhouse Gas Initiative**
 - 10-state cooperative to reduce GHG emissions from electric power plants by means of a cap and trade system
- **Adoption of California Vehicle Emissions Standards**
 - By 2016 would reduce GHG emissions from cars by 37 percent, from light trucks by 24 percent
- **The Climate Registry**
 - Corporate, non-profit, and government entities in New York are committed to use the Registry protocol to inventory and report emissions

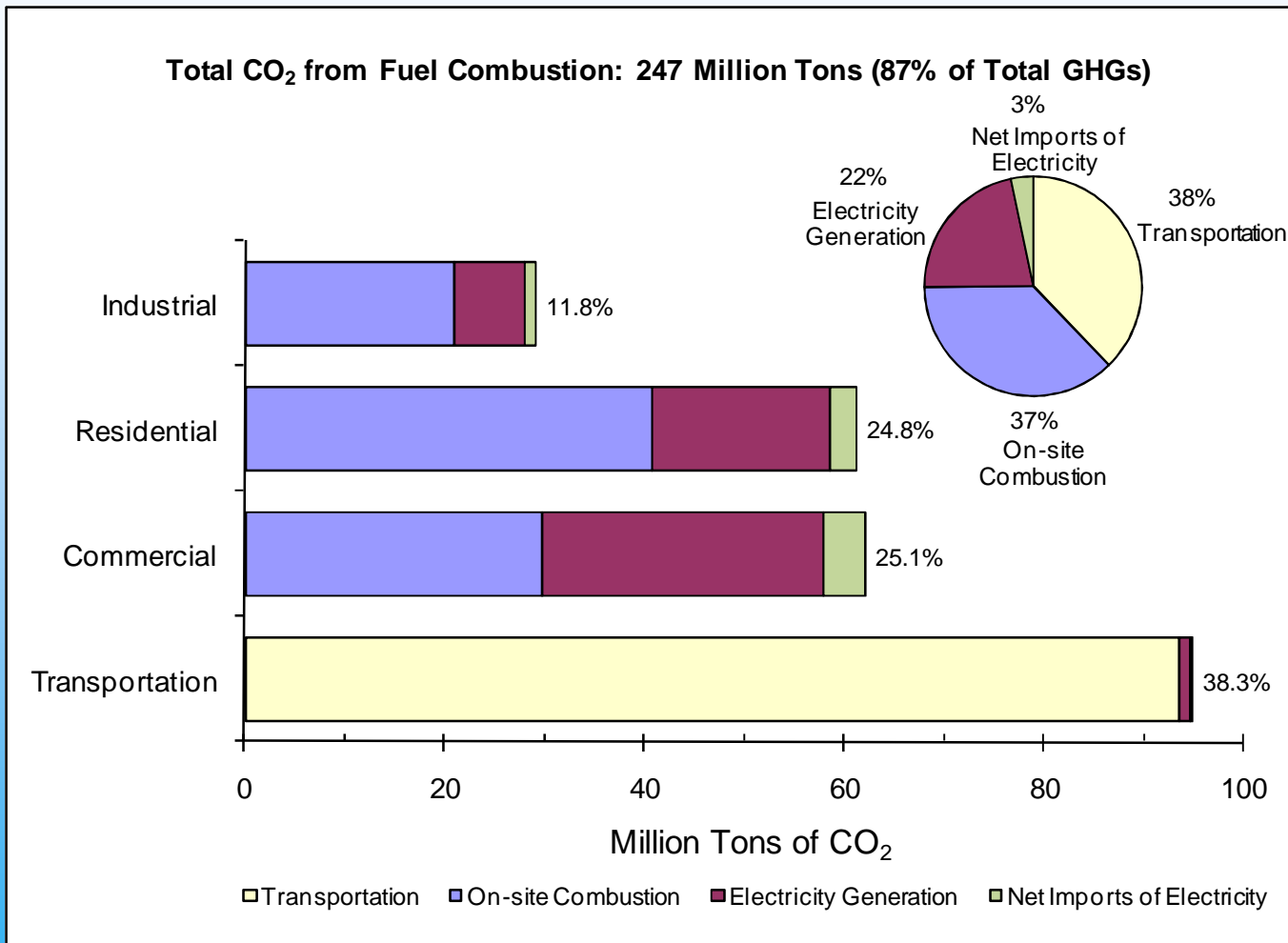


Energy Efficiency and Renewable Energy Initiatives

- **New York Energy \$mart Program**
- **45 by 15**
 - Energy Efficiency Portfolio Standard (15% cut in electric power demand)
 - Renewable Energy Portfolio Standard (30% of electricity from renewable energy)
- **Green Jobs – Green NY**
- **Green and Clean State Buildings and Vehicles Guidelines (EO 111) and State Green Procurement and Agency Sustainability Program (EO 4)**
- **Updating Energy Codes**

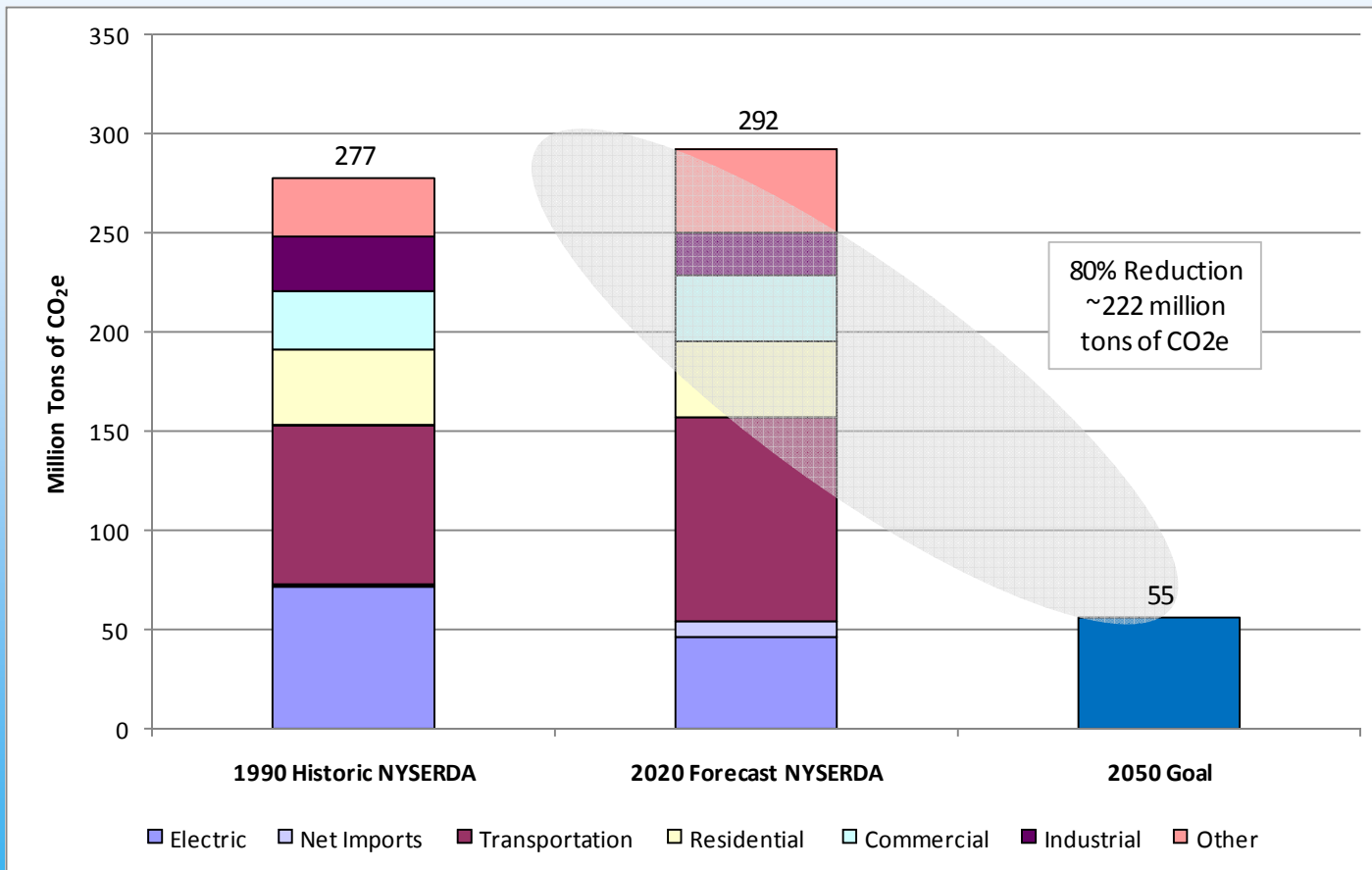


CO₂ from Fuel Combustion by End Use Sector (2007)



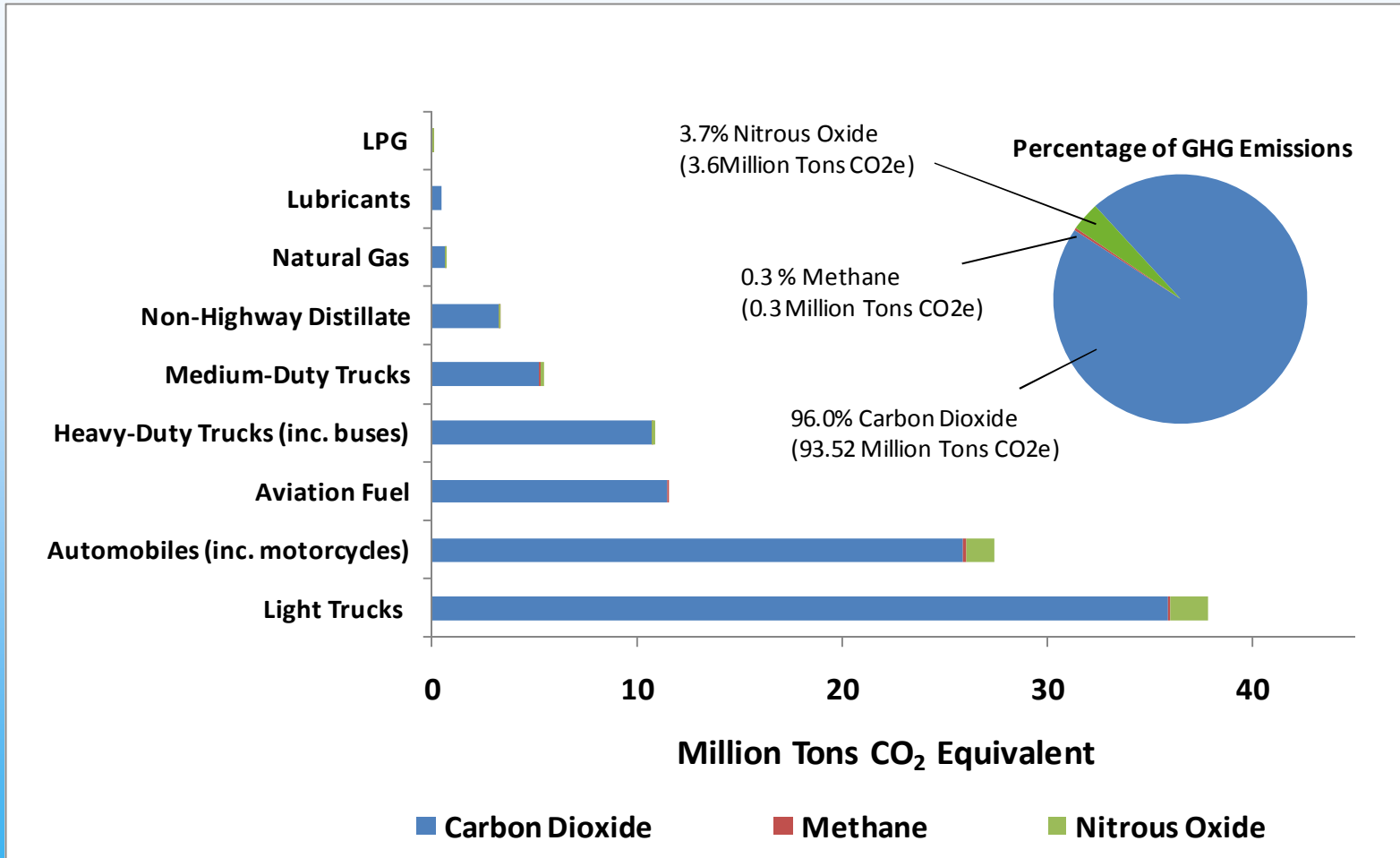


GHG Emission Reductions Required to Meet 2050 Goal (80 by 50)





Transportation GHG Emissions (2007)





Transportation and Land Use Workgroup

www.nyclimatechange.us/Transportation_Land_Use.cfm

- **Co-Chairs:**
 - Paul Beyer, NYS Department of State
 - Ernest Tollerson, Metropolitan Transportation Authority
- **Membership includes:**
 - NYS DOT / NYS DEC / NYSERDA
 - Port Authority of NY and NJ
 - Conoco-Philips
 - Sprague Energy
 - Golub Corporation
 - Pace University
 - Rochester Institute of Technology
 - Environmental Advocates of New York
 - People United for Sustainable Housing Buffalo
 - Transport Workers Local 100
 - New York Metropolitan Transportation Council
 - Capital District Transportation Committee
- **Process Open to the Public**



Transportation and Land Use Policies

- **Reduce Vehicle Miles of Travel**
- **Reduce Energy Required per Mile of Travel**
- **Reduce Carbon Intensity of the Fuels**
- **Planning, Pricing, Funding, and Collaboration**



Reduce Vehicle Miles of Travel

- **Smart Growth**
 - Priority Growth Centers
 - Location-Efficient Land Use
 - Transit Oriented Development & Transit-Supportive Development
- **Transportation Demand Management**
 - Carsharing, Vans, Telecommuting
- **Improve Transit and Develop High Speed Rail**
 - Subway, Commuter Rail, Bus Rapid Transit, Light Rail
 - High-Speed Rail Corridors



Reduce Energy Required per Mile of Travel

- **System Efficiency**
 - **Transportation System Management**
 - Improved Traffic Flow
 - Road-rail Links
 - Congestion/Cordon Pricing
 - **Smart Goods Movement**
 - Freight Consolidation Centers & Enhanced Logistics Systems
 - Green Ports
- **Vehicle Efficiency**
 - **Beyond 2016 Standard (Feds or CA)**
 - **Incentives & Disincentives**
 - Feebates, Registration Fees, Tax Credits
 - Public and Private Fleet Leadership
 - **Transit Efficiency**



Reduce Carbon Intensity of the Fuels

- **Low Carbon Fuel Standard**
 - 11 Governors of Northeast & Mid-Atlantic States signed MOU in 2009
- **Low Carbon Fuel Infrastructure**
 - Public Fueling Stations
 - Incentives for Private Infrastructure Development
- **Vehicle Incentives**
 - Combine efficiency and low carbon fuels



Planning, Pricing, Funding, and Collaboration

- **Require Greenhouse Gas Emission Impact Tests for Projects**
- **Fuel & VMT Fees and Tolls**
- **Pay As You Drive Insurance**
- **After ‘State of Good Repair’, Prioritize Shared Modes Over Single Occupancy Vehicle Projects**
- **Expand Regional Greenhouse Gas Initiative (RGGI) to Include Transportation**
 - **Transportation, Environment, and Energy Agency Heads meeting today**