



CENTER FOR CLIMATE STRATEGIES

WRAP States Inventories & Forecasts

Tom Peterson

Center for Climate Strategies

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Center for Climate Strategies



- Nonprofit 501c3 policy development group with over 20 consulting partners located across the US
- Assist public officials with development of climate change plans and policies
- Facilitation and technical analysis as a neutral and expert party
- Strategic planning, consensus building, conflict resolution, capacity-building
- Multiple areas of technical and policy expertise including: climate, energy, transportation, natural resource issues
- Tom Peterson, Executive Director, Fairfax, VA
 - **703-691-2199, tdp1@mac.com**

Status of State GHG Actions

- Inventories and Forecasts
 - **38 total (inventories), 11 recent (with forecasts)**
- Policies and Mechanisms
 - **CCS Catalog of 250+ state level actions**
- Comprehensive Plans
 - **32 total, 11 recent, 3 underway**
- Statewide Goals & Targets
 - **9 total, 2 underway**
- Reporting Systems (12)
- Regional Agreements (4)

Project Timeline

- Phase One
 - **Immediate Startup**
 - **Conclusion by end of 2006**
- Phase Two (optional)
 - **Startup early 2007**
 - **Completion by July 2007**

Coverage

- Six gases per USEPA and UNFCCC guidelines
 - **Carbon Dioxide (CO₂), Methane (CH₄), Nitrous Oxide (N₂O), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), Sulfur Hexafluoride (SF₆); Black Carbon considered separately**
- All major emitting sectors
 - **Electricity**
 - **Residential, Commercial, Industrial Fuel Use**
 - **Transportation**
 - **Agriculture and Forestry**
 - **Industrial Processes and Other Sources**
 - **Waste Management**
- States and tribes
- 1990-2020

Technical Work Plan

- WGA formation of state agency technical contacts
- CCS draft of proposed technical work plan for each state
 - **Review of existing assessments**
 - **Identification of additional needs**
 - **Proposed new data sources, methods, assumptions**
- State review and approval of each proposed work plan
- CCS data collection and analysis for each state
 - **State technical contacts assist**
- State review of draft results; additional analysis as needed
- WGA review of results, consistency issues across states

Proposed Approaches

- Inventory approach
 - **Standard US EPA and UN methodologies, guidelines, and tools**
 - **Emphasis on transparency, consistency, and significance**
 - **Preference for state or regional data, where available**
 - **Consumption and production-basis emissions from electricity generation**
- Projection approach
 - **Reference case assumes no major changes from business-as-usual**
 - **Growth assumptions from existing sources**

Transparency

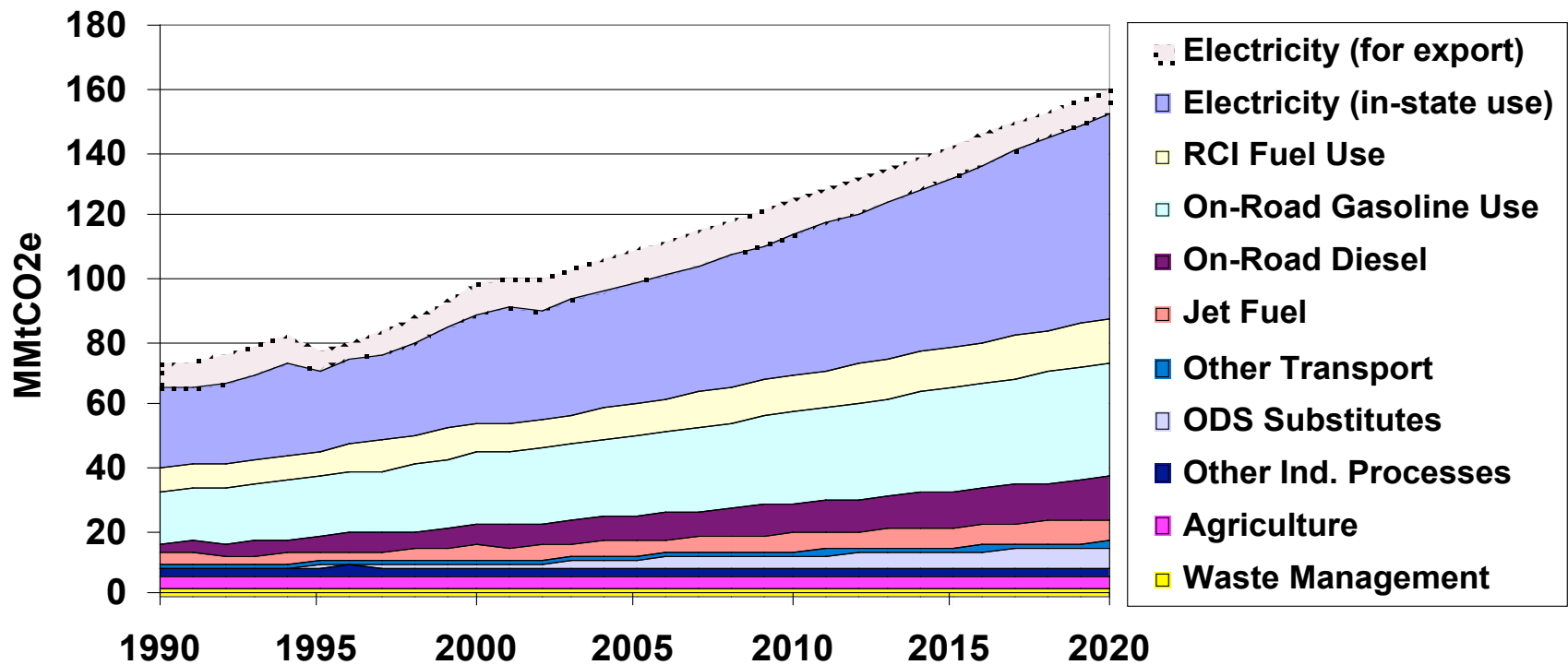


- Data sources
- Quantification methods
- Key assumptions
- Key uncertainties

Project Funding

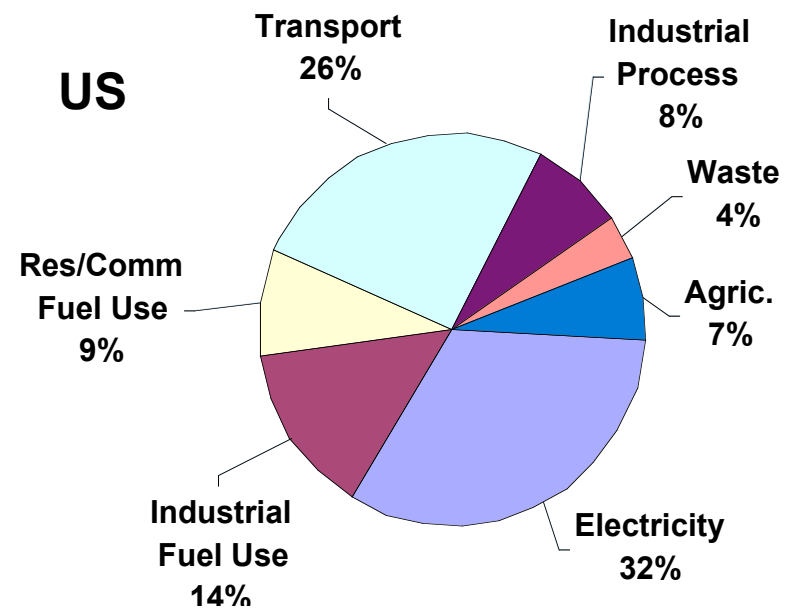
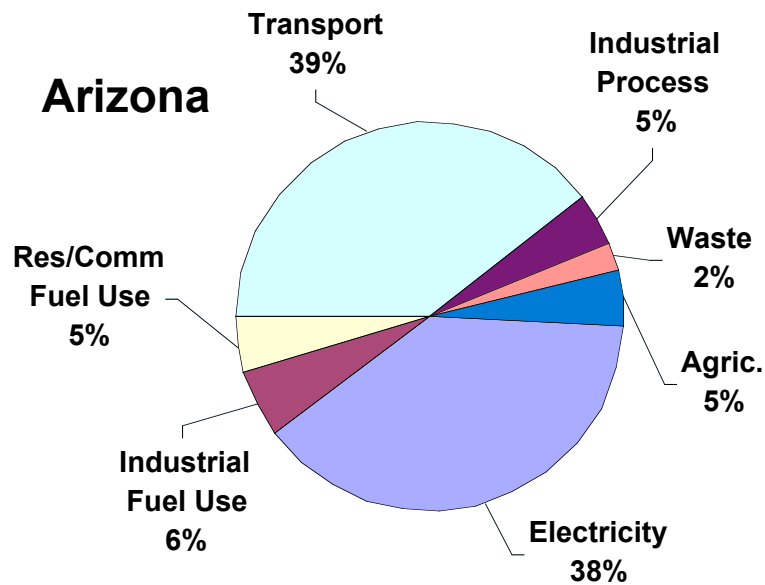
- Standard CCS Policy - No Contingent Outcomes
- Funds Are Budgeted in CCS Annual Plan
- Private Foundation Grants
 - **American Conservation Foundation**
 - **Marisla Foundation**
 - **RBF**
 - **Tremaine Foundation**
 - **Others are interested in contributing as well**

AZ GHG Emissions 1990-2020



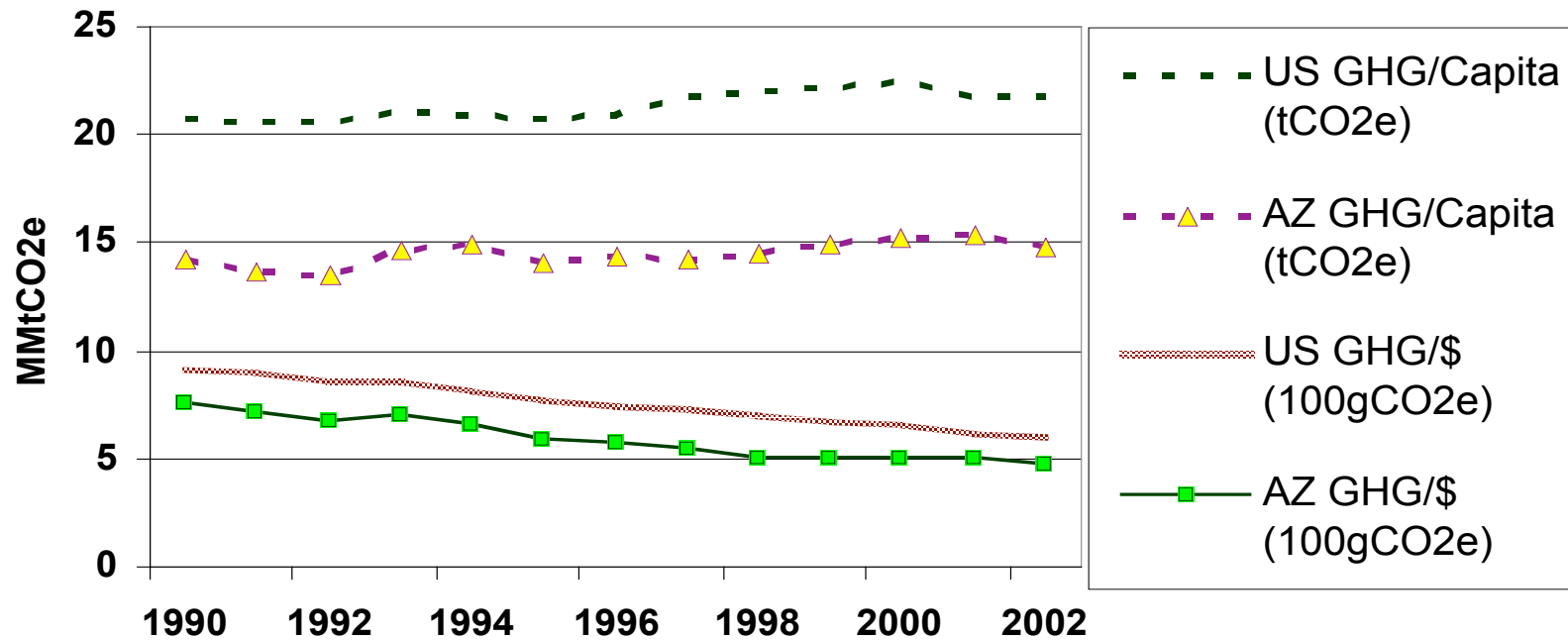
*This chart does not show net carbon sinks (forestry and land use) which average slightly over 10 MMtCO₂e/year.

Arizona v. US Emissions 2000

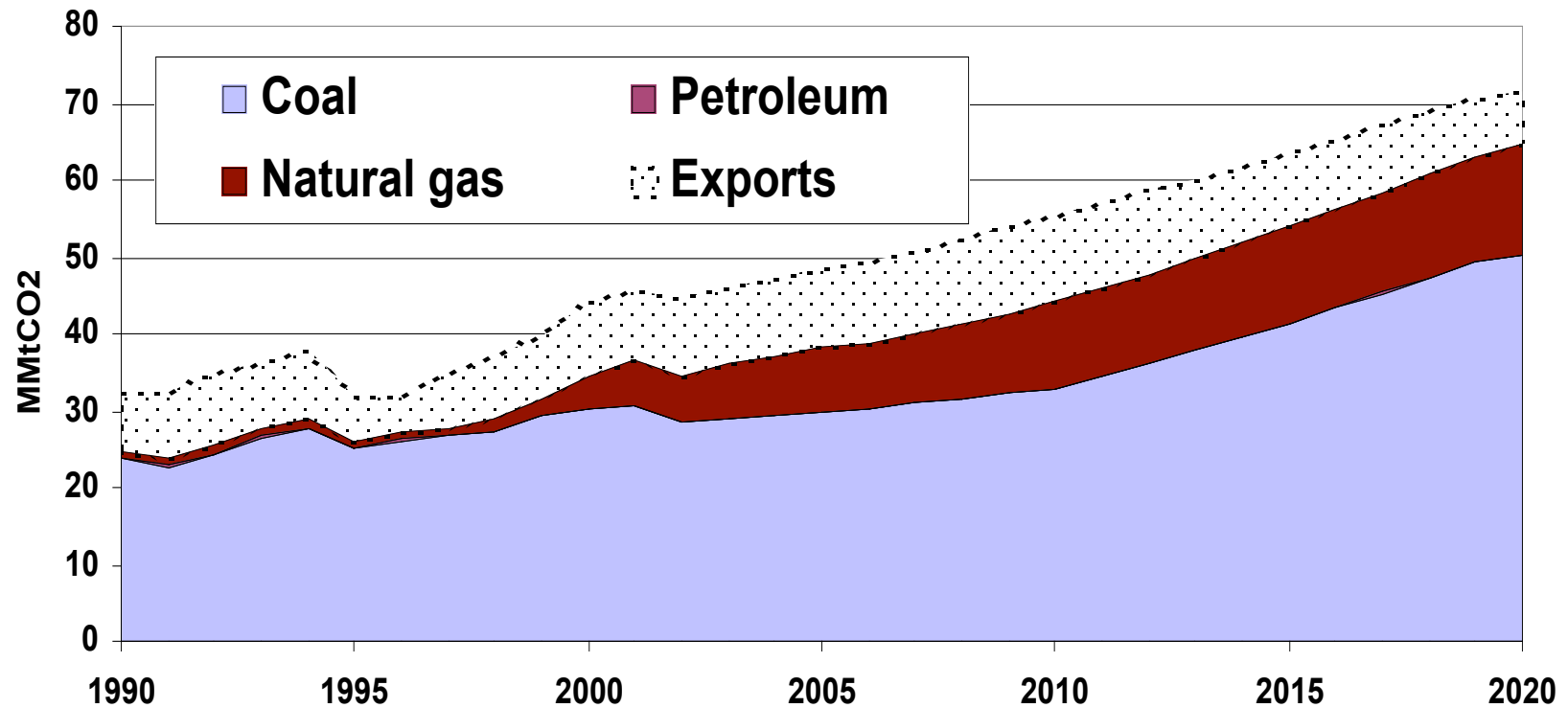


AZ Per Capita, GSP GHGs

- EMISSIONS INTENSITY DECLINES AS OVERALL GHG LEVELS RISE
- PER CAPITA RATES VARY SLIGHTLY OVER TIME BUT STAY LEVEL



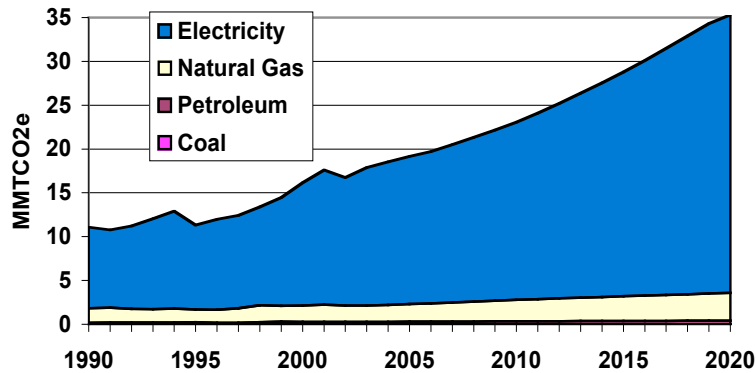
Electricity



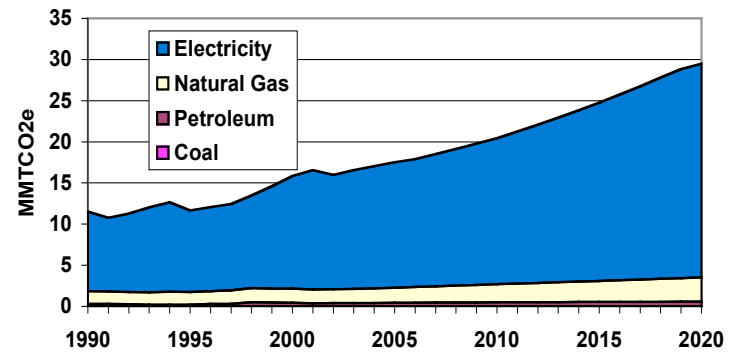


RCI

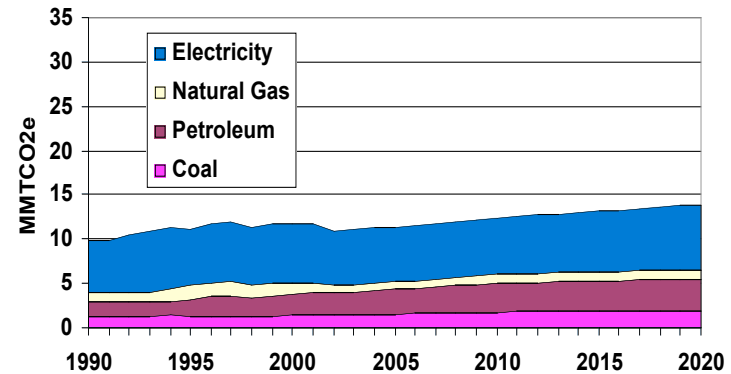
Residential Sector



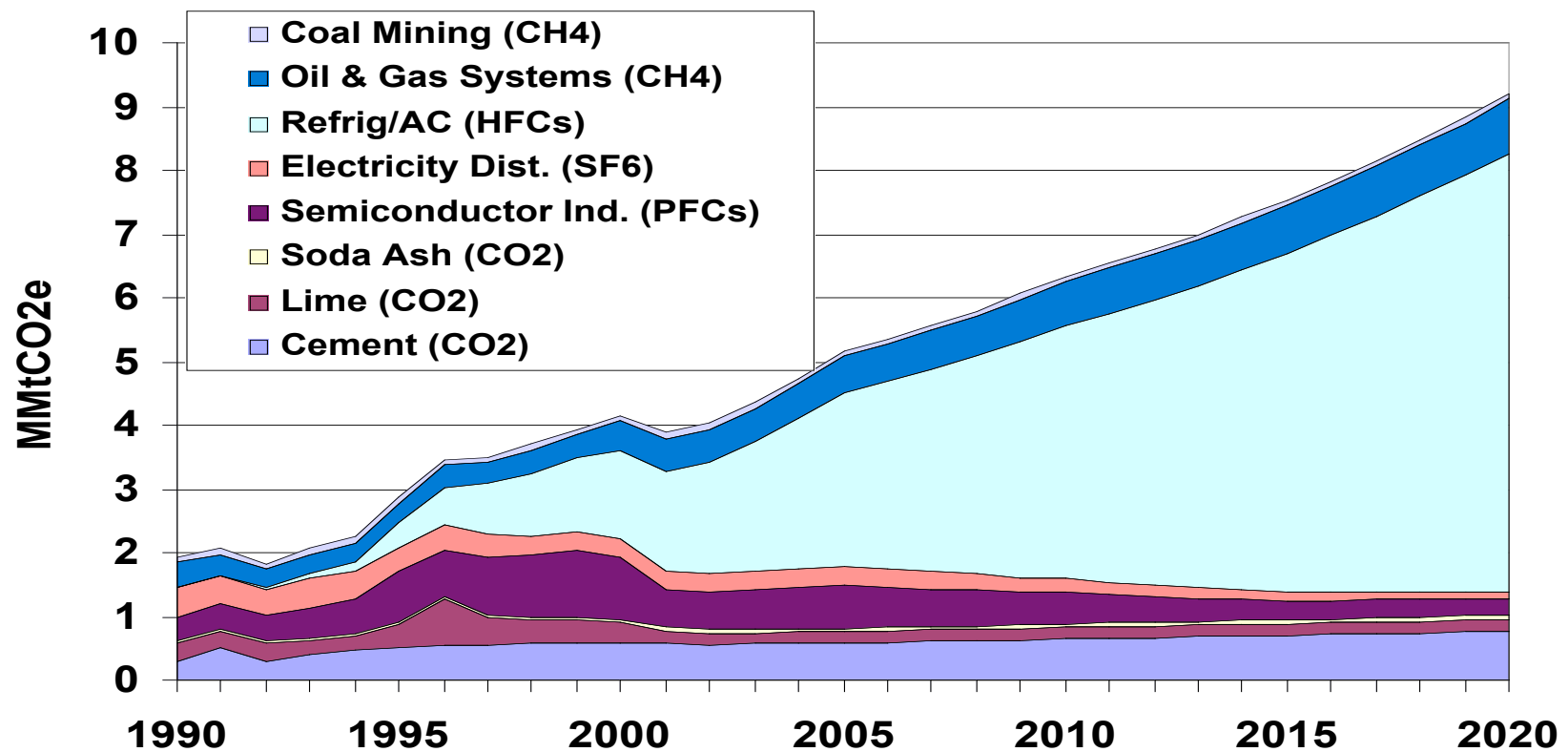
Commercial Sector



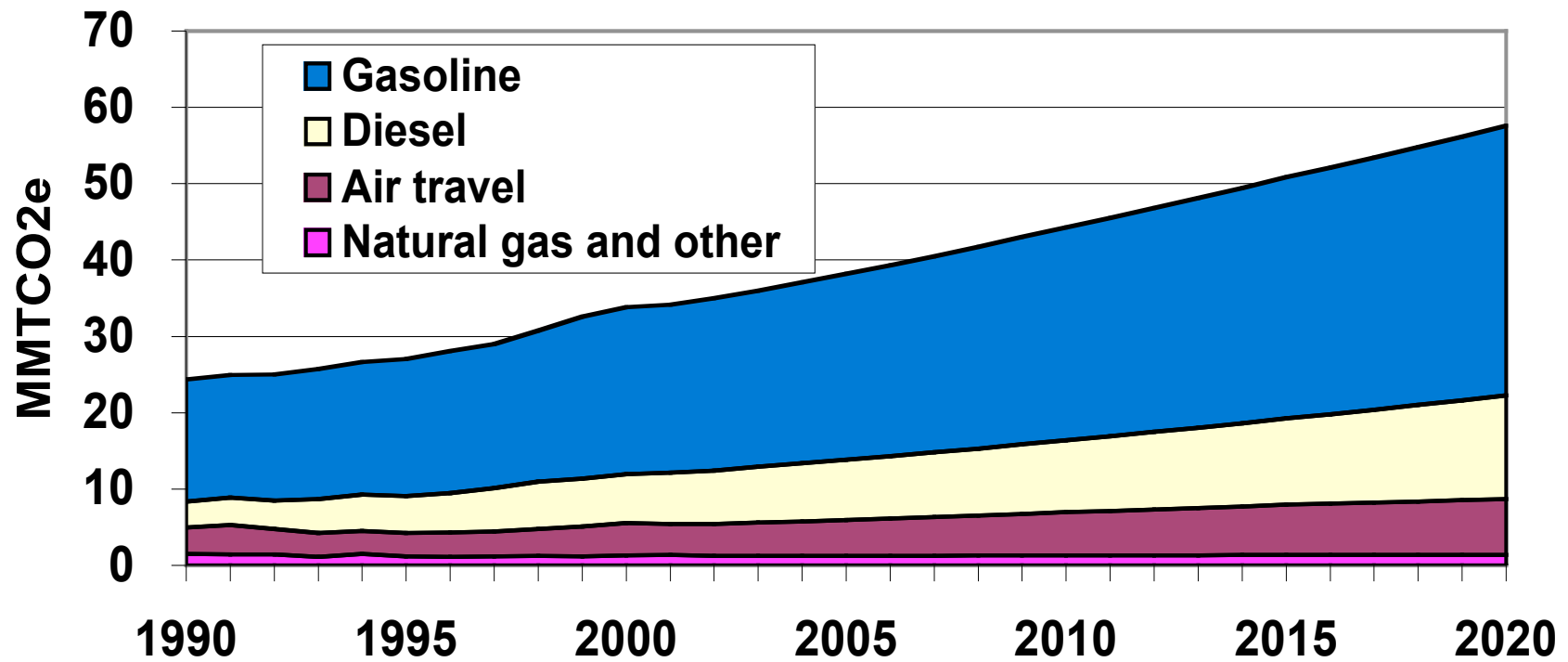
Industrial Sector



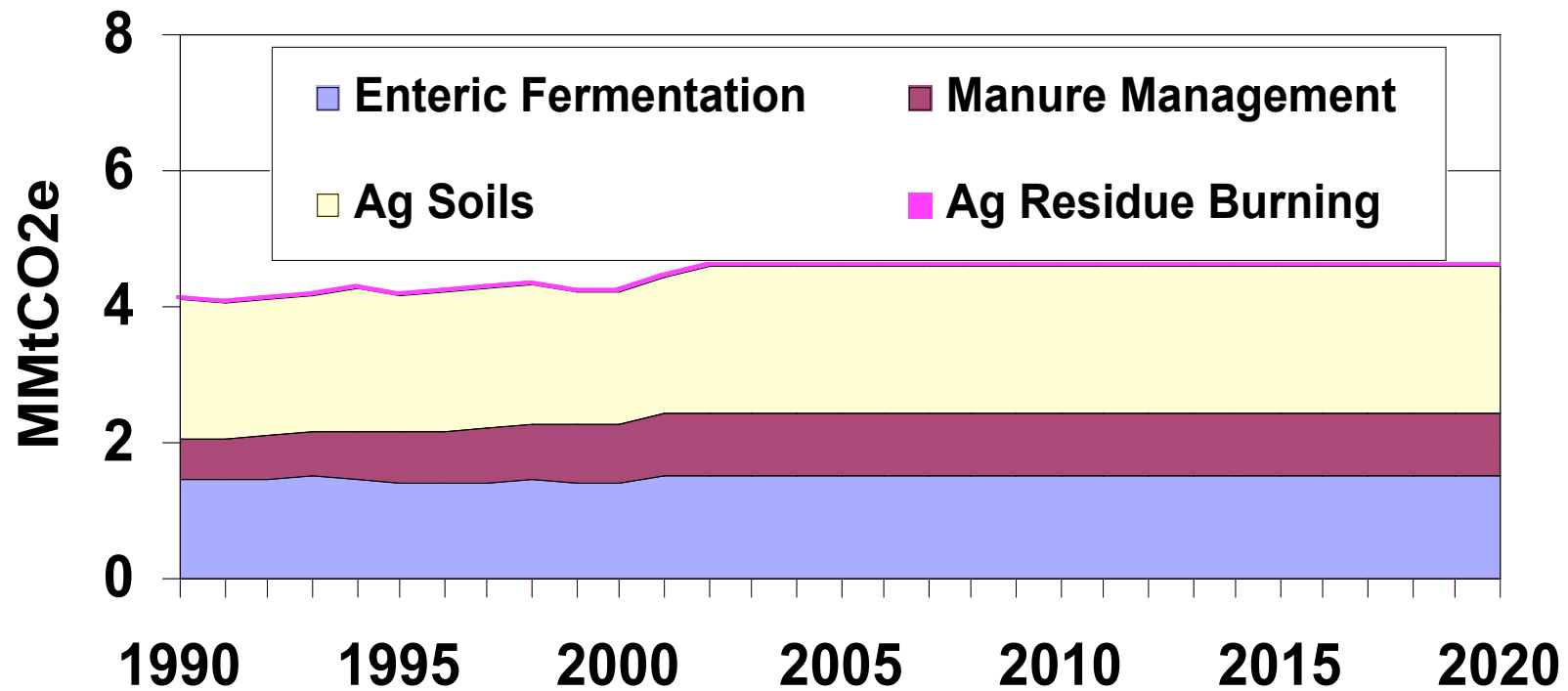
Industrial Process



Transportation



Agriculture



Forestry

- Forest carbon stock changes
 - **1987-2002 average annual stock changes**
 - **Carbon only**

Live and dead-standing trees and understory	2.5
Forest floor and coarse woody debris	-3.8
Soils	-5.5
Wood products and landfills	0.0
Total	-6.7

State GHG Growth Forecasts

