



**ENVIRONMENTAL
ADVOCATES OF NEW YORK**
YOUR GOVERNMENT WATCHDOG

Planes, Trains, and Automobiles: Next Stop Decarbonization

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Who we are and what we do

- ▶ Your NYS environmental watchdog protecting our climate, air, land, water, and fighting for more liveable and vibrant communities
- ▶ We do this by:
 - ▶ monitoring all levels of state government;
 - ▶ championing beneficial environmental laws and policies and fighting against detrimental ones;
 - ▶ building coalitions and political power;
 - ▶ bringing the voices of NYers to Albany; and
 - ▶ pushing the Governor and legislative leaders to make NY a national environmental leader.



Overview

- ▶ **Transportation emissions and sources**
- ▶ **Mandates under the new climate law**
- ▶ **New York steps to decarbonize the transport sector**
- ▶ **Federal rollbacks**

Planes, trains, and automobiles

- ▶ Greenhouse gas emissions (GHG) from transportation comes primarily from burning fossil fuels from:
 - ▶ motor vehicles
 - ▶ ships
 - ▶ trains
 - ▶ planes
- ▶ Over 90 percent of the fuel used for transportation is petroleum based.
- ▶ Since 1970 GHG transport emissions have more than doubled.



Transport emission profile

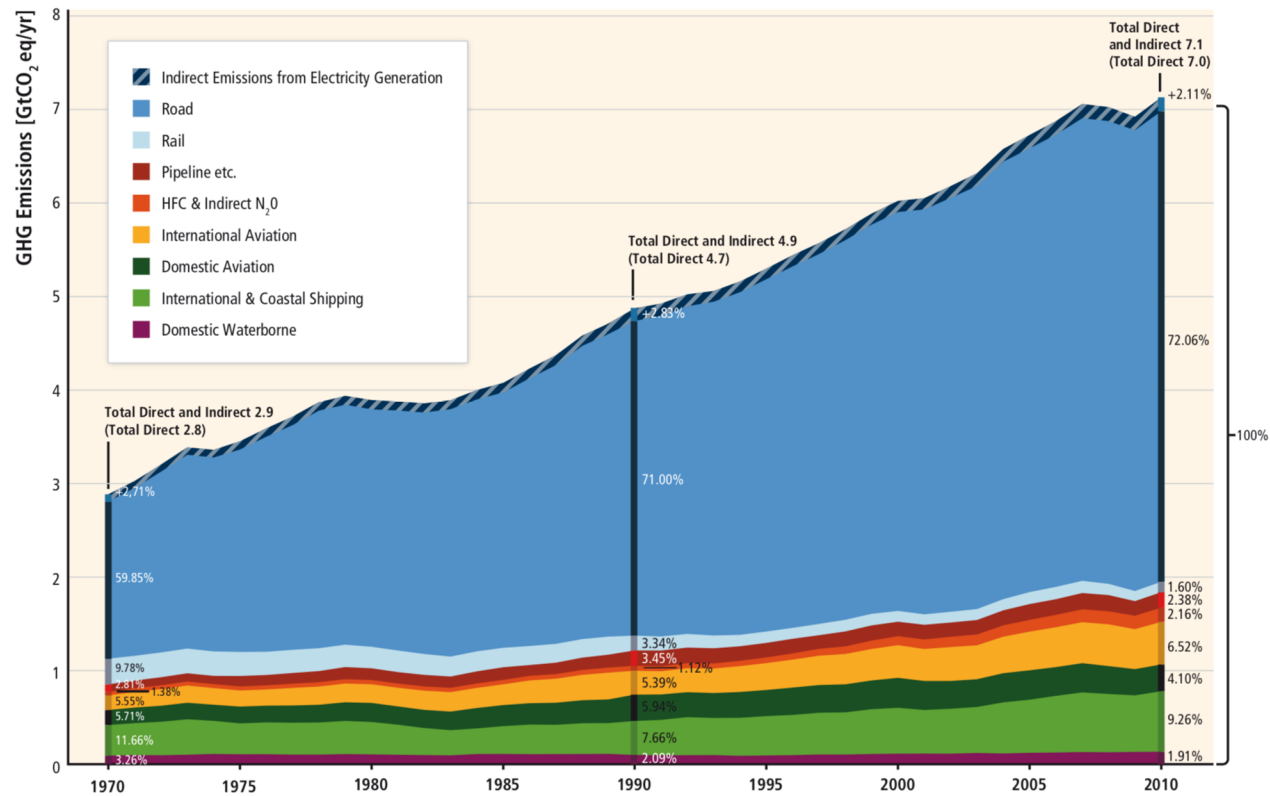


Figure 8.1 | Direct GHG emissions of the transport sector (shown here by transport mode) rose 250% from 2.8 Gt CO₂eq worldwide in 1970 to 7.0 Gt CO₂eq in 2010 (IEA, 2012a);

Source: IPCC Report, Chapter 8 Transport

https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_chapter8.pdf

Transport largest GHG emission source

Main Sources Of Greenhouse Gases in NYS



TRANSPORTATION

36%



BUILDINGS

30%



ELECTRICITY
GENERATION

15%



WASTE

7%



REFRIGERANTS

5%

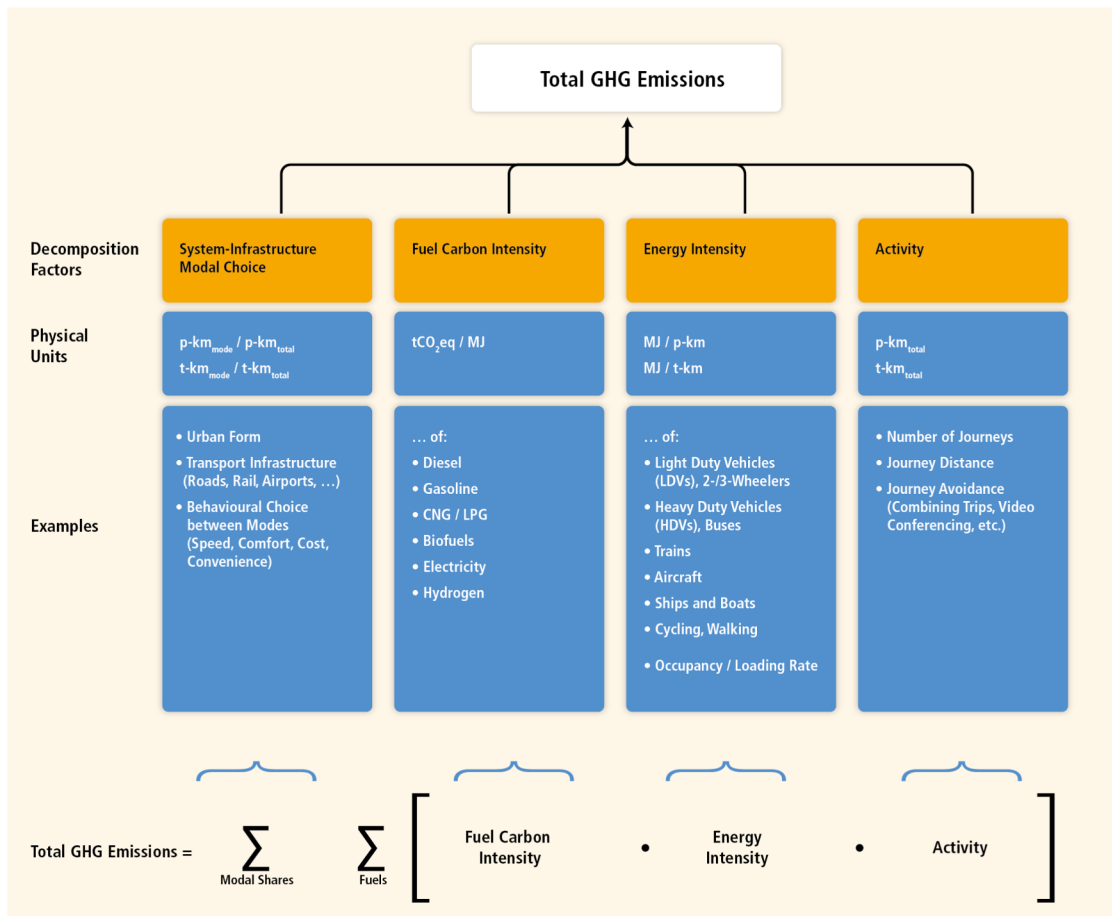


AGRICULTURE

4%

Source: <https://www.dec.ny.gov/energy/99223.html>

Transport emissions breakdown = opportunities for emissions reductions



New York's new climate mandates



Goal: 100% of elimination of anthropogenic emission sources



Mandates:

85% emissions reduction of GHGs by 2050, interim target of 40% by 2030

15% emissions reduction of GHGs to be achieved by a limited offset program (electric generation excluded)

Electricity sector mandate, 70% electricity generation from renewable sources by 2030, and 100% by 2040



Action Council and Scoping Plan

Creation of 22 member Climate Action Council, appointments made by state agencies and legislators

Establish an advisory board on transportation

Development of draft scoping plan due by Jan 1, 2022, final Action Plan by Jan 1, 2023

Scoping plan will be the roadmap for achieving goals and mandates

Scoping plan will cover standards and measures for reducing GHG emissions



Just Transition

Creates Climate Justice Working Group, Environmental Justice Working Group, Just Transition Working Group

Incorporation of equity and environmental justice into investment and decision-making

At least 35% of the benefits clean energy initiatives, including transportation initiatives, to go to disadvantaged communities

New York transportation emission reduction programs

- ▶ MTA's 2040 Clean Fleet Commitment
 - ▶ 100% electrification of bus fleet by 2040
 - ▶ GHG emissions savings of ~575,000 metric tons of CO₂e per year
- ▶ Zero Emission Vehicle (ZEV) Program
 - ▶ Requires all new vehicles sold in NYS also meet California emissions standards
- ▶ ChargeNY / Drive Clean Rebate (NYSERDA)
 - ▶ EV rebate program and education platform
- ▶ EVolve NY (NYPA) and the Make Ready Program (PSC/utilities)
 - ▶ Charging infrastructure program

New York transportation emission reduction programs (cont'd)

- ▶ NYS Adoption of California Bus Rule (100% by 2040)
- ▶ E-Scooters and E-Bikes
- ▶ Congestion pricing
- ▶ Transportation and Climate Initiative (TCI)

ElectrifyNY

- ▶ Campaign launched in 2018
- ▶ Objectives
 - ▶ Transparency in MTA goals
 - ▶ Ground vehicle emissions reduction goal
 - ▶ Environmental justice
 - ▶ Jobs
- ▶ Tools
 - ▶ Municipality fleet electrification toolkit
 - ▶ Model electrification resolutions

<https://electrifyny.org/ev-municipal-toolkit/>



Federal rollbacks

- ▶ Finalized rollback on Obama-era **fuel-economy standards** for cars and light trucks
- ▶ Revocation of **California's power to set its own more stringent emissions standards** for cars and light trucks
- ▶ Repealed a requirement that state and regional authorities **track tailpipe emissions** from vehicles traveling on federal highways
- ▶ Lifted a summertime ban on the use of **E15, a gasoline blend made of 15 percent ethanol**. (Burning gasoline with a higher concentration of ethanol in hot conditions increases smog)

Questions?

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