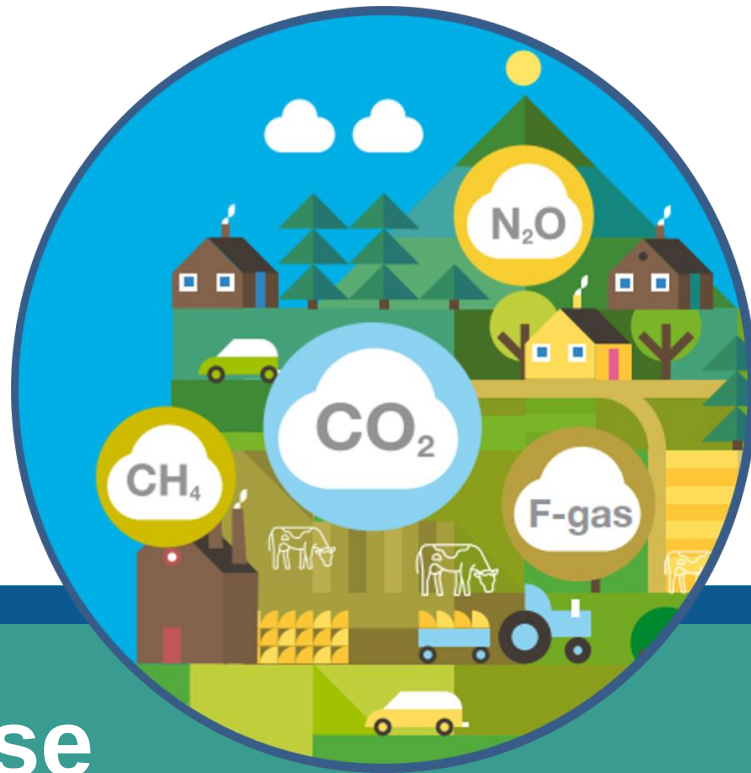




Provisional greenhouse gas emissions 1990-2021

Emissions Statistics Team



EmissionsStatistics@epa.ie



Overview

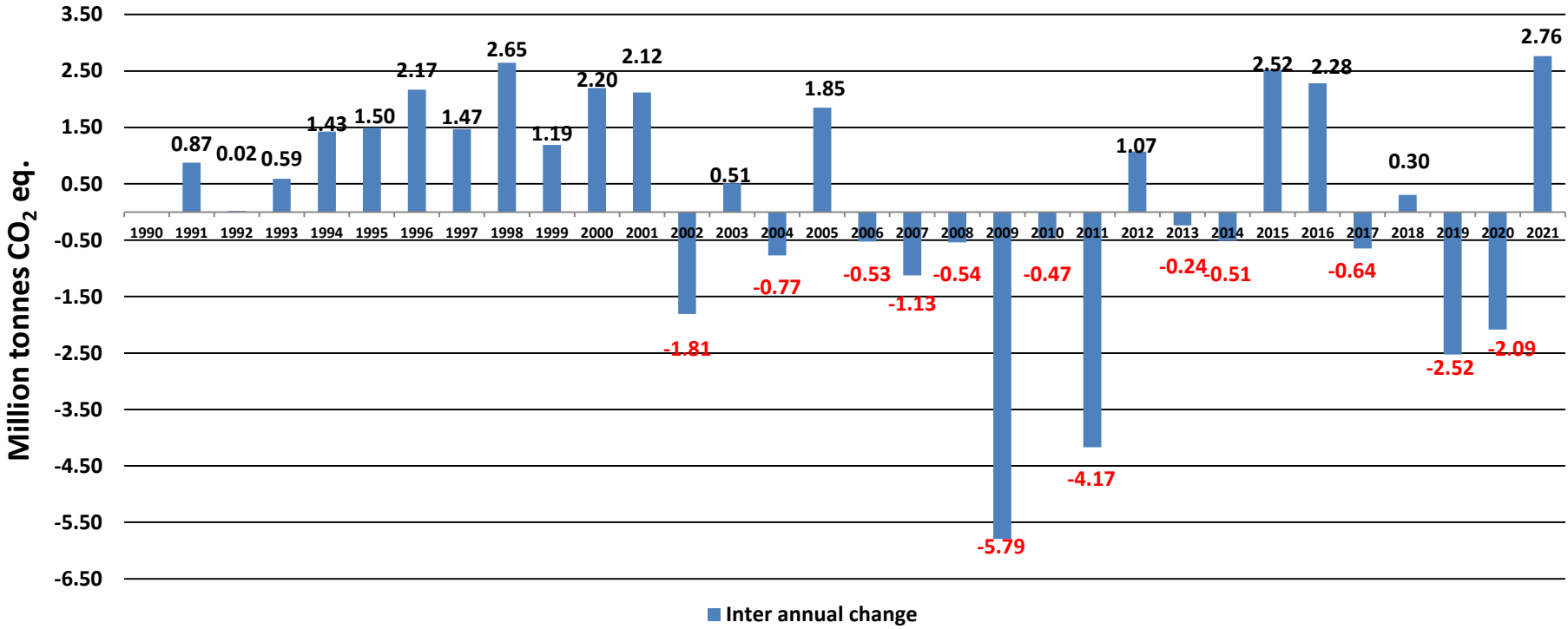


- Long term trends
- Agriculture
- Transport
- Energy Industries
- Residential
- Industry, IP and ETS
- Waste

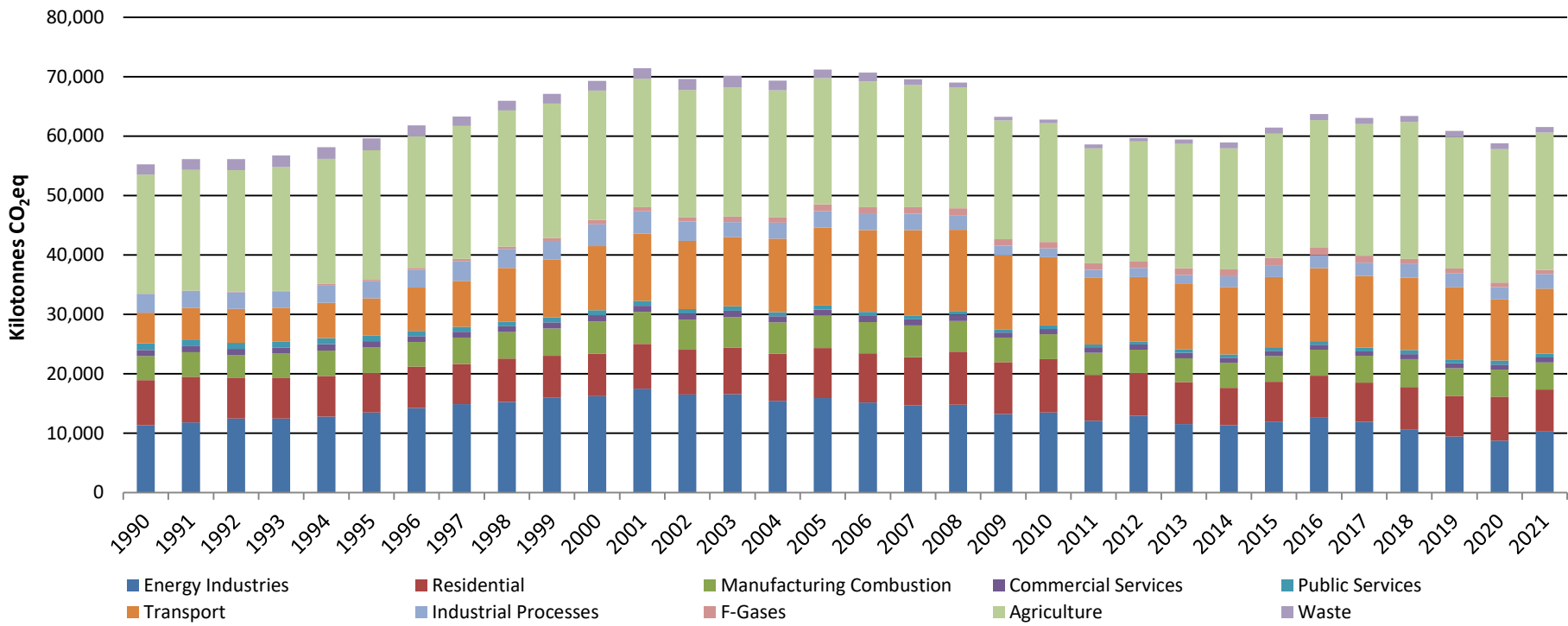
Annual Emissions trends



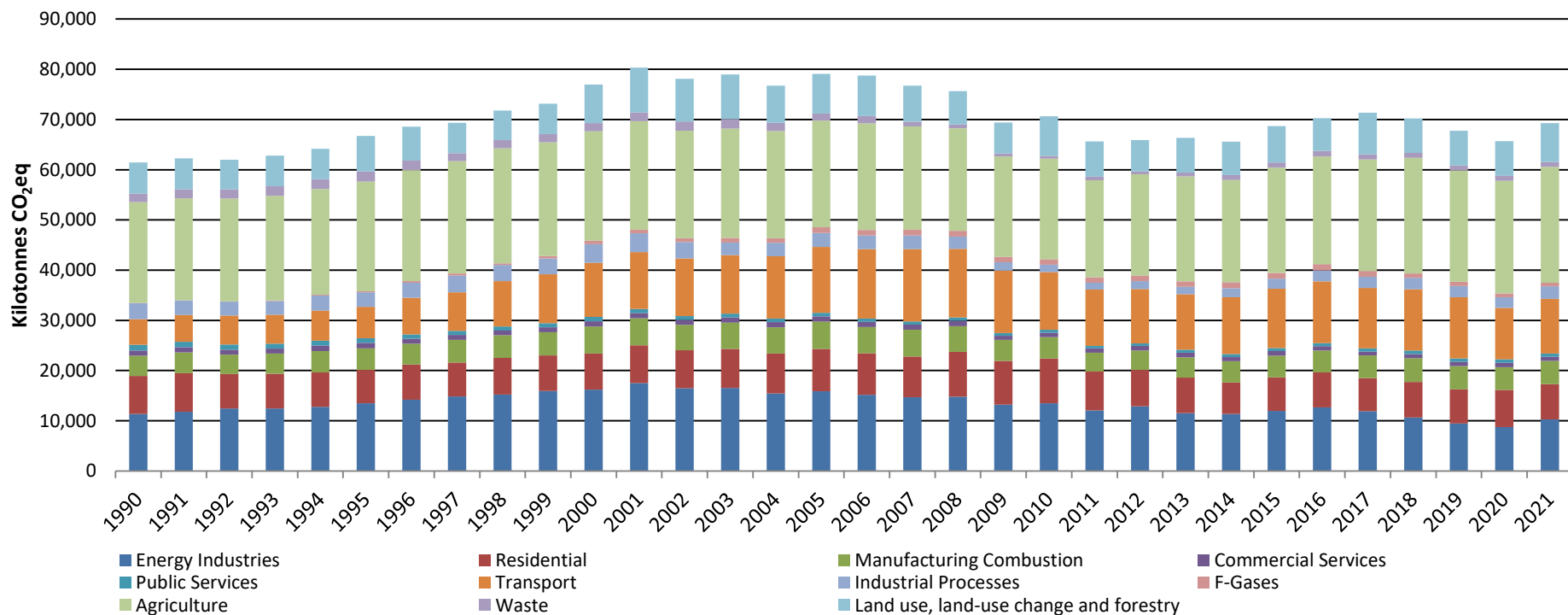
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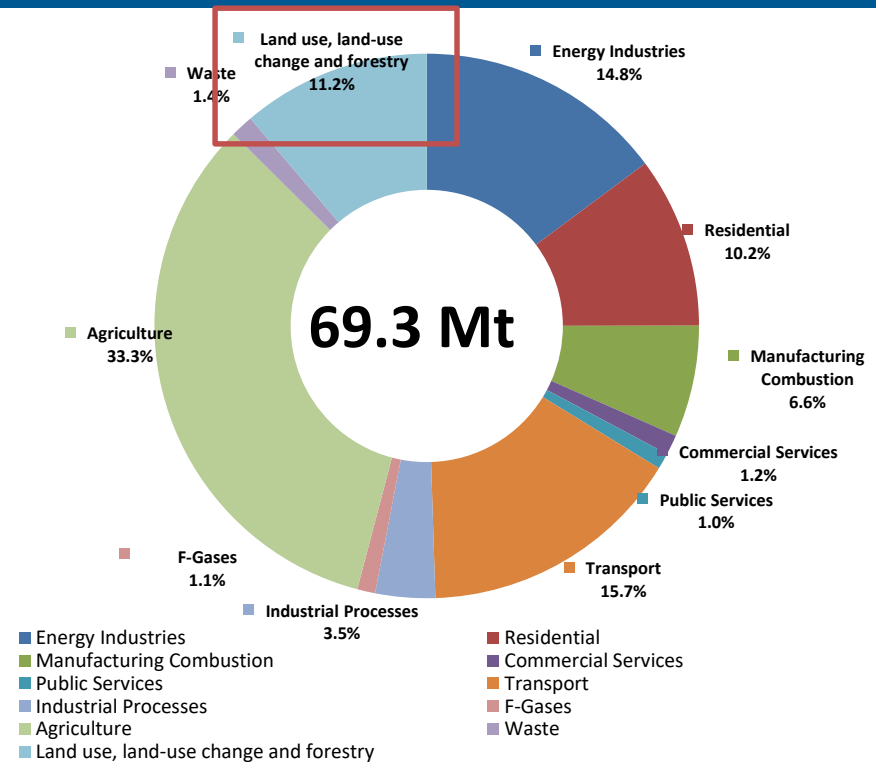
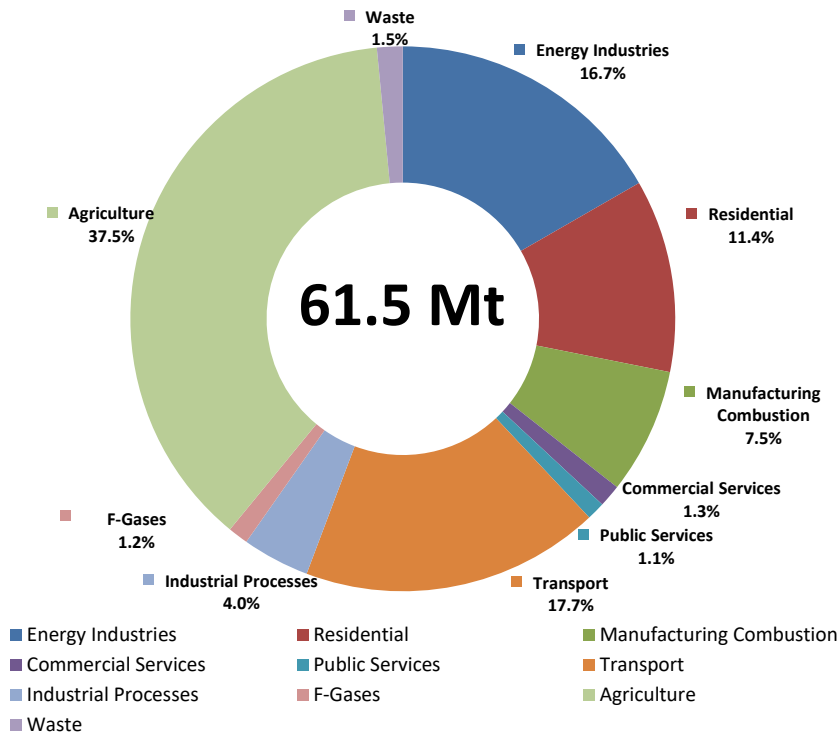
Annual Emissions 1990-2021 excluding LULUCF



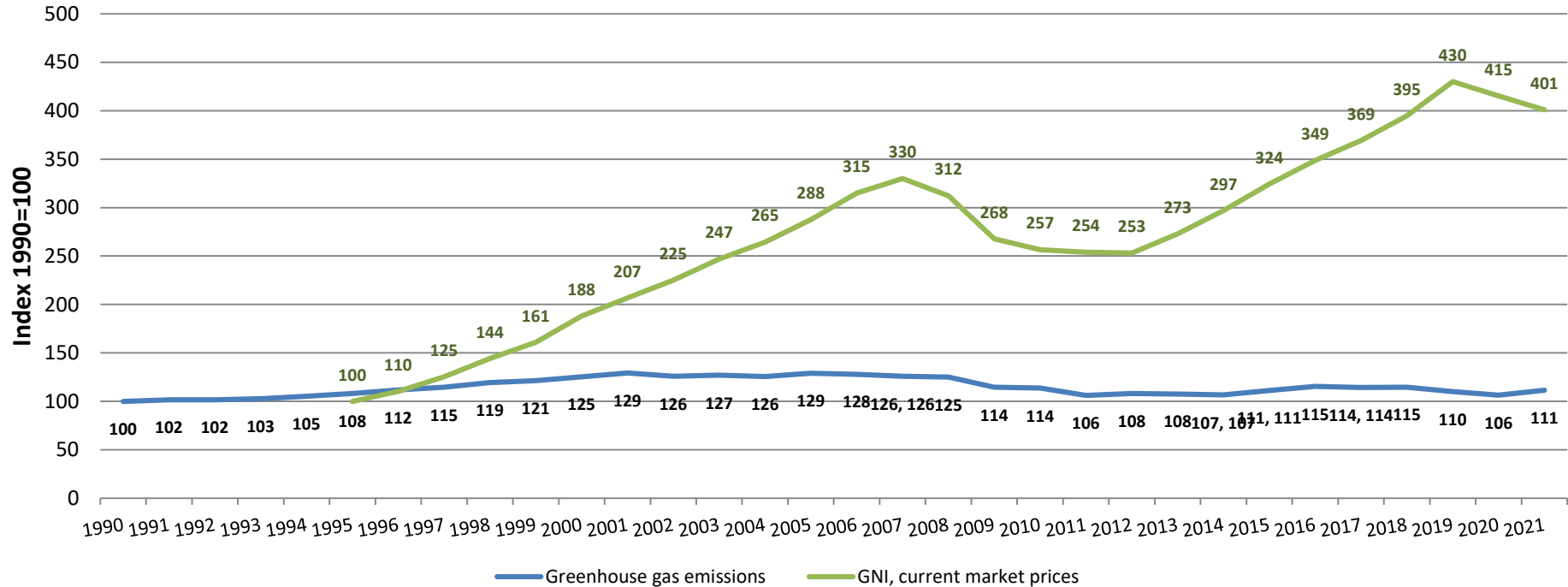
Annual Emissions 1990-2021 including LULUCF



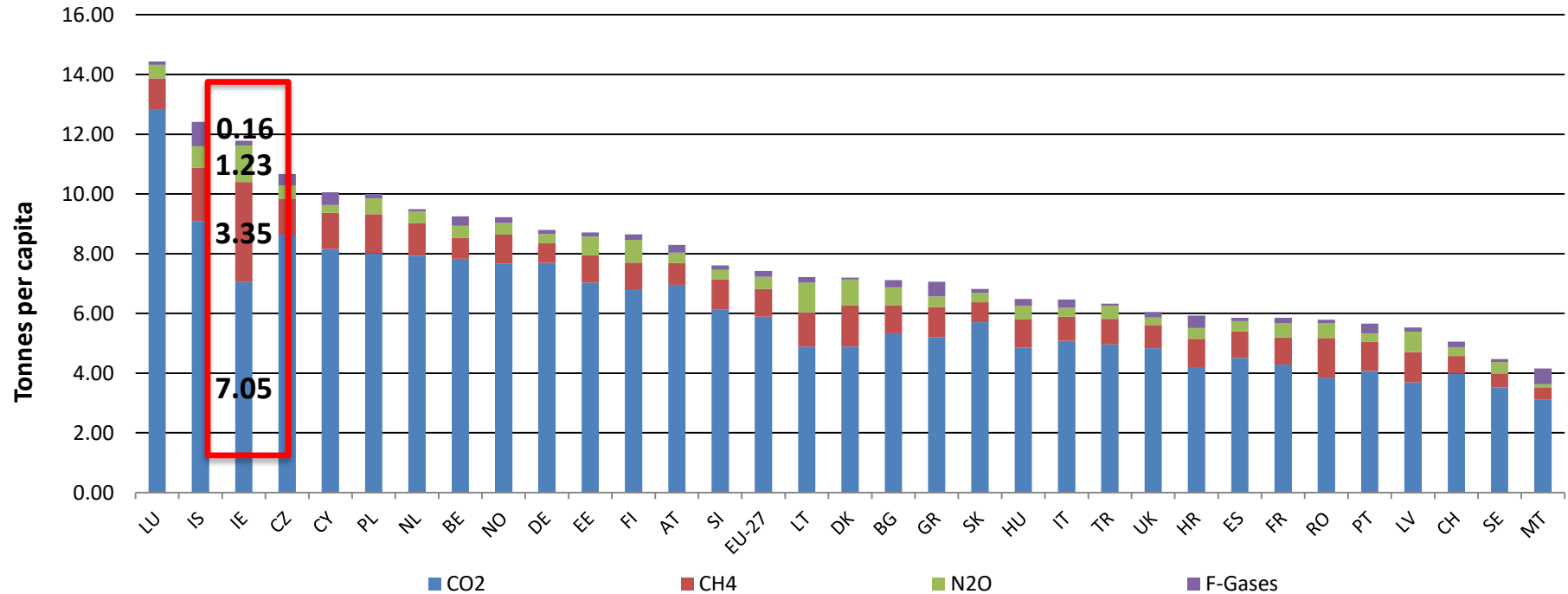
Annual Emissions shares 2021



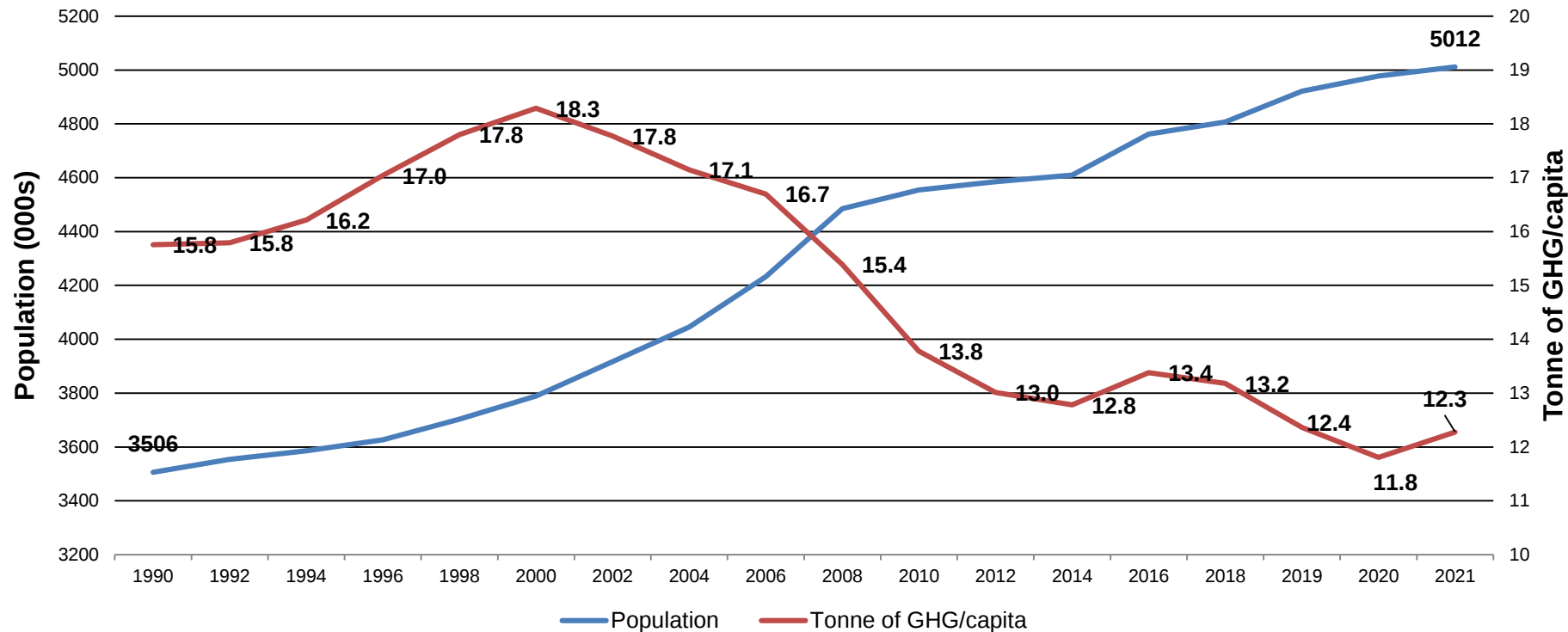
GHG emissions and GNI (relative trend)



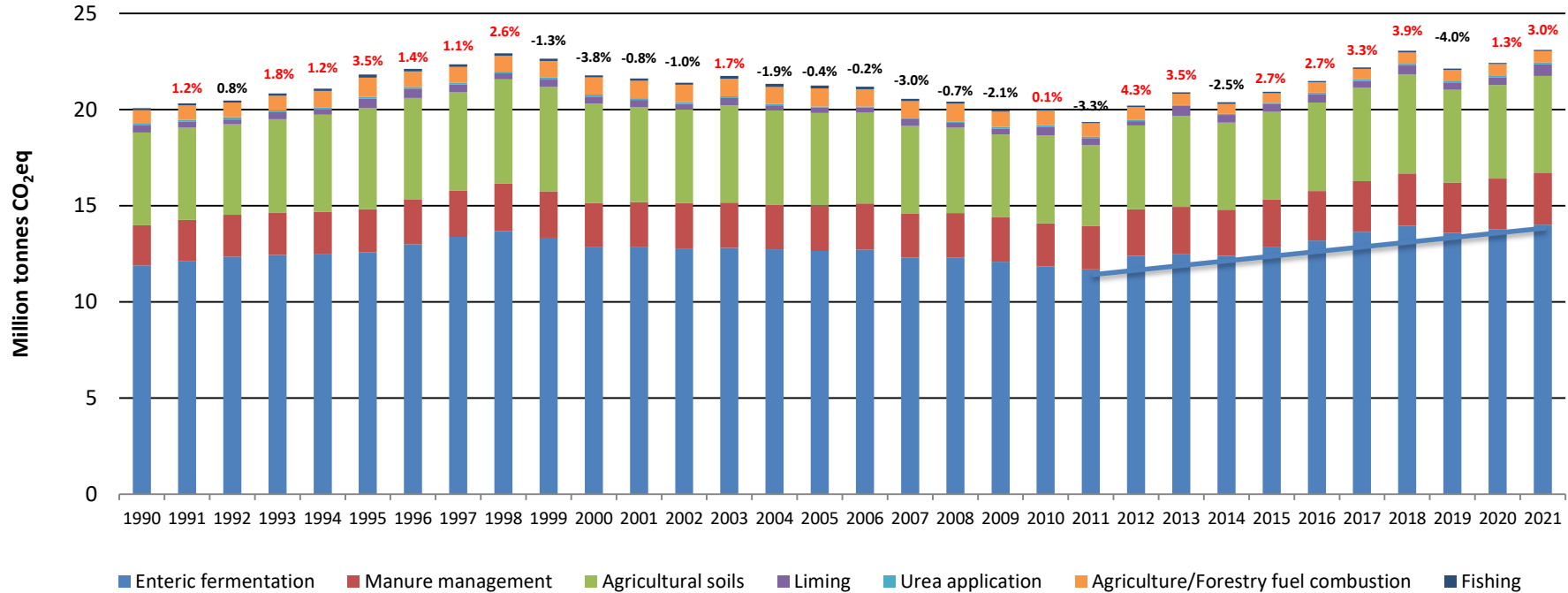
Emissions per capita (2020)



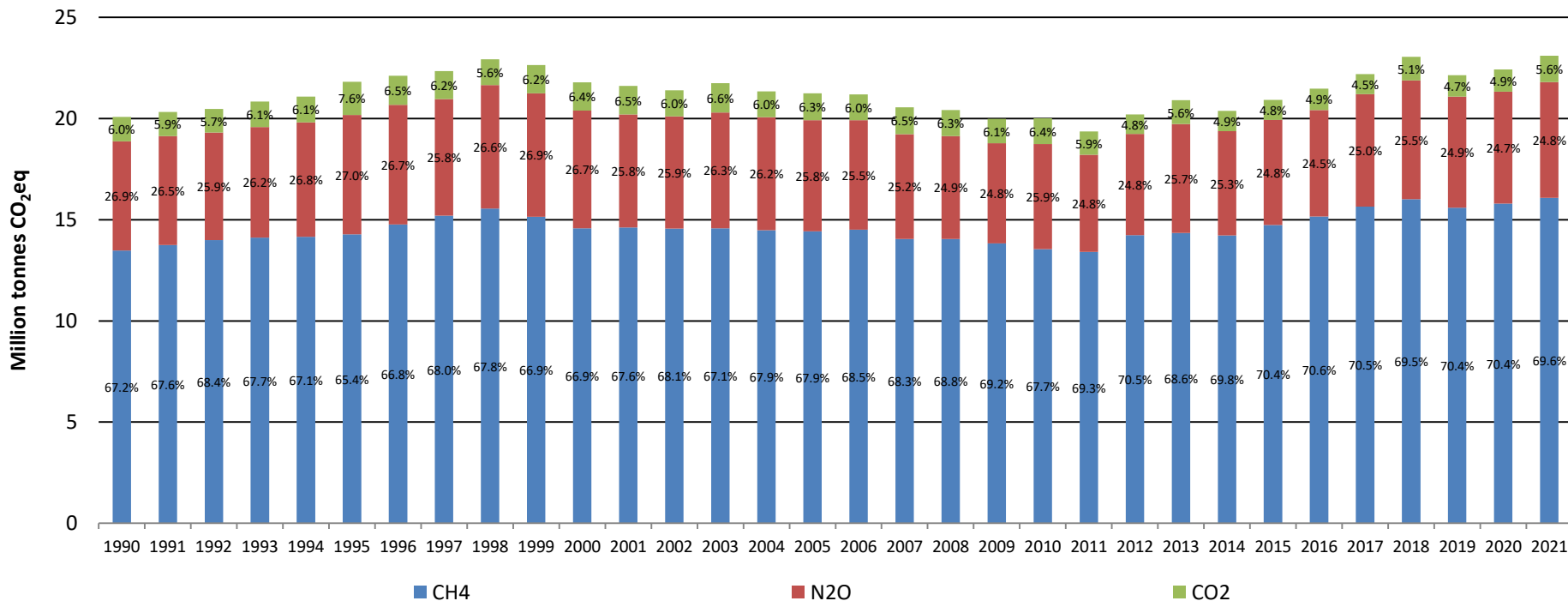
Population and per capita emissions



Agriculture emissions 1990-2021



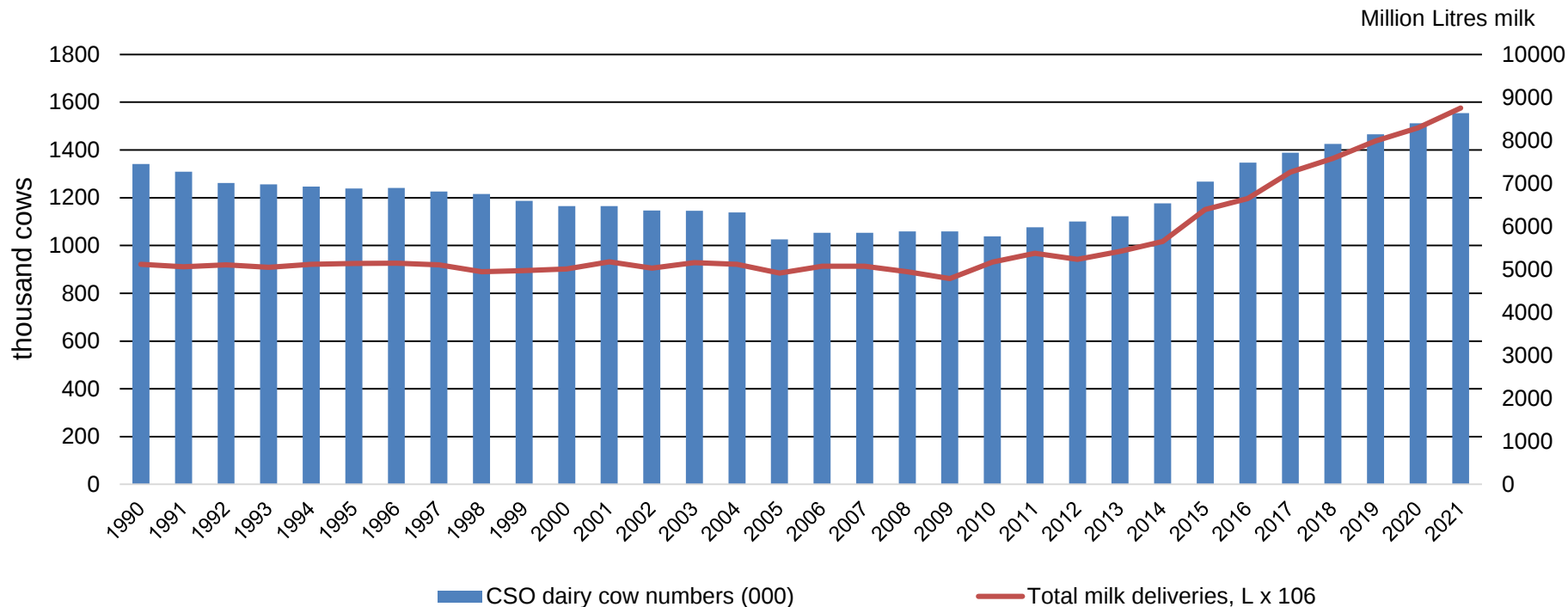
Agriculture emissions by gas1990-2021



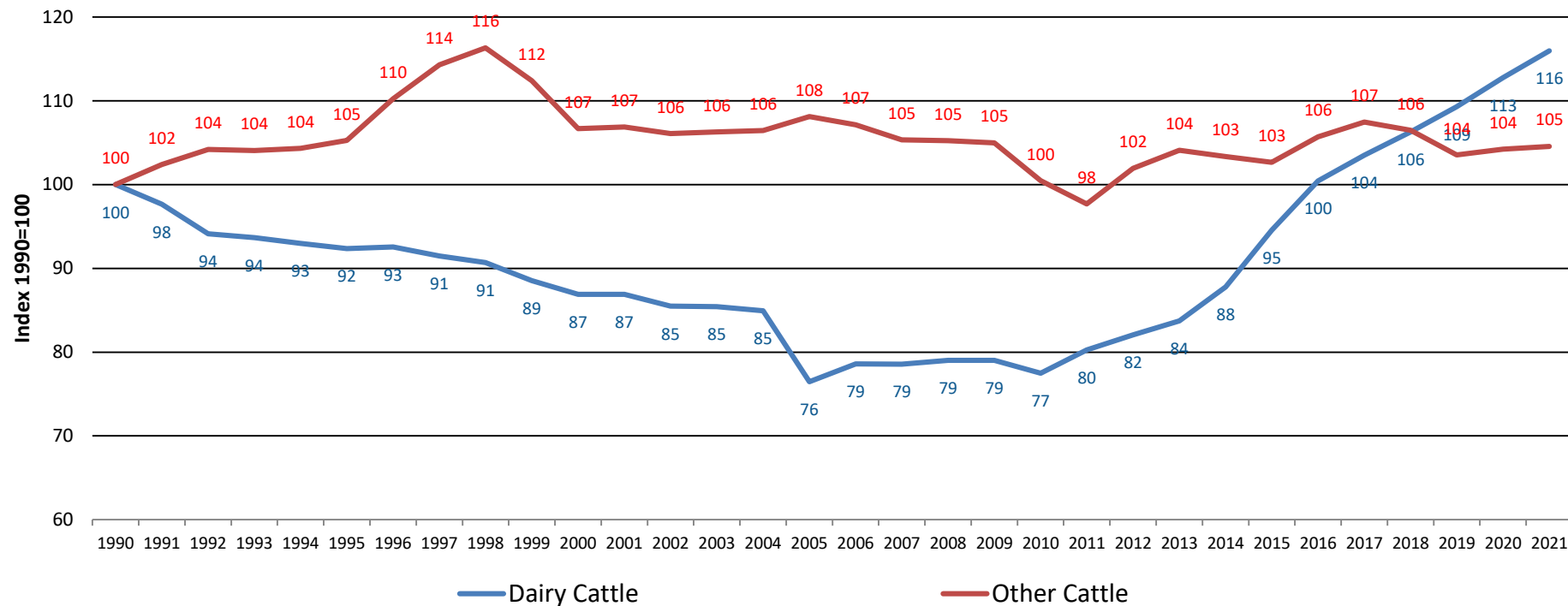
Agriculture emissions drivers



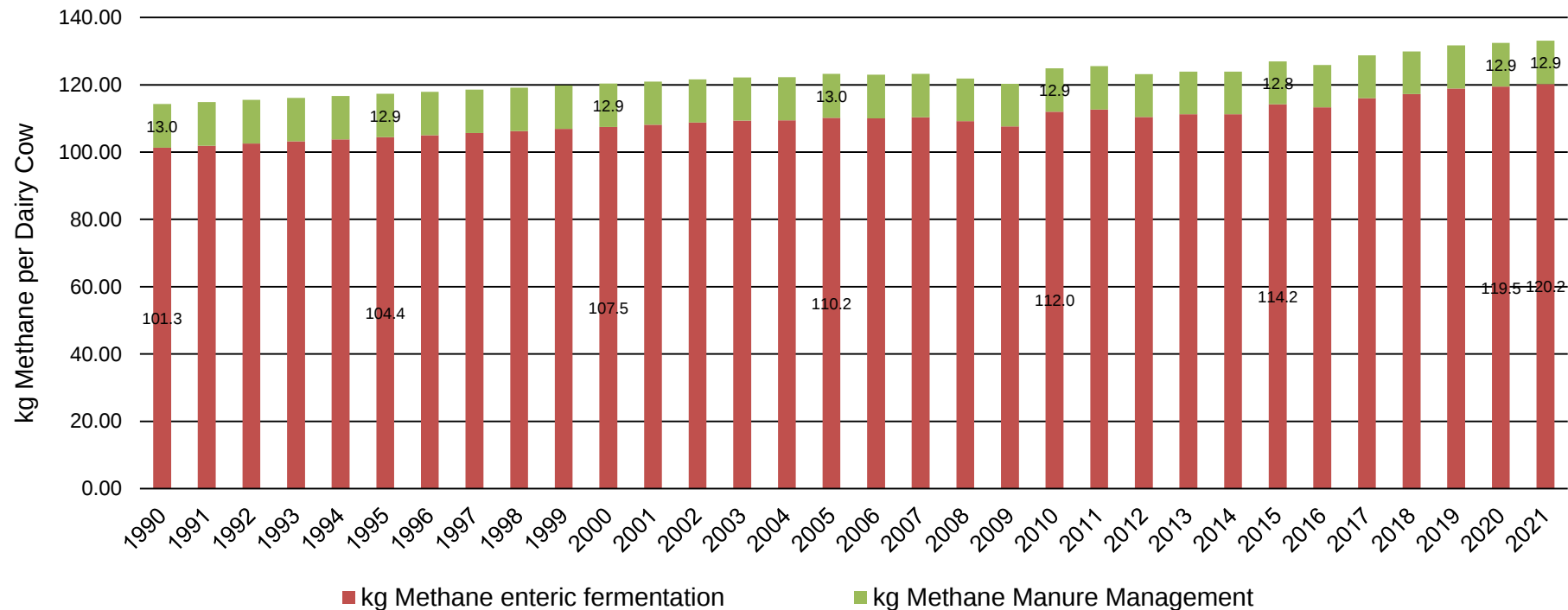
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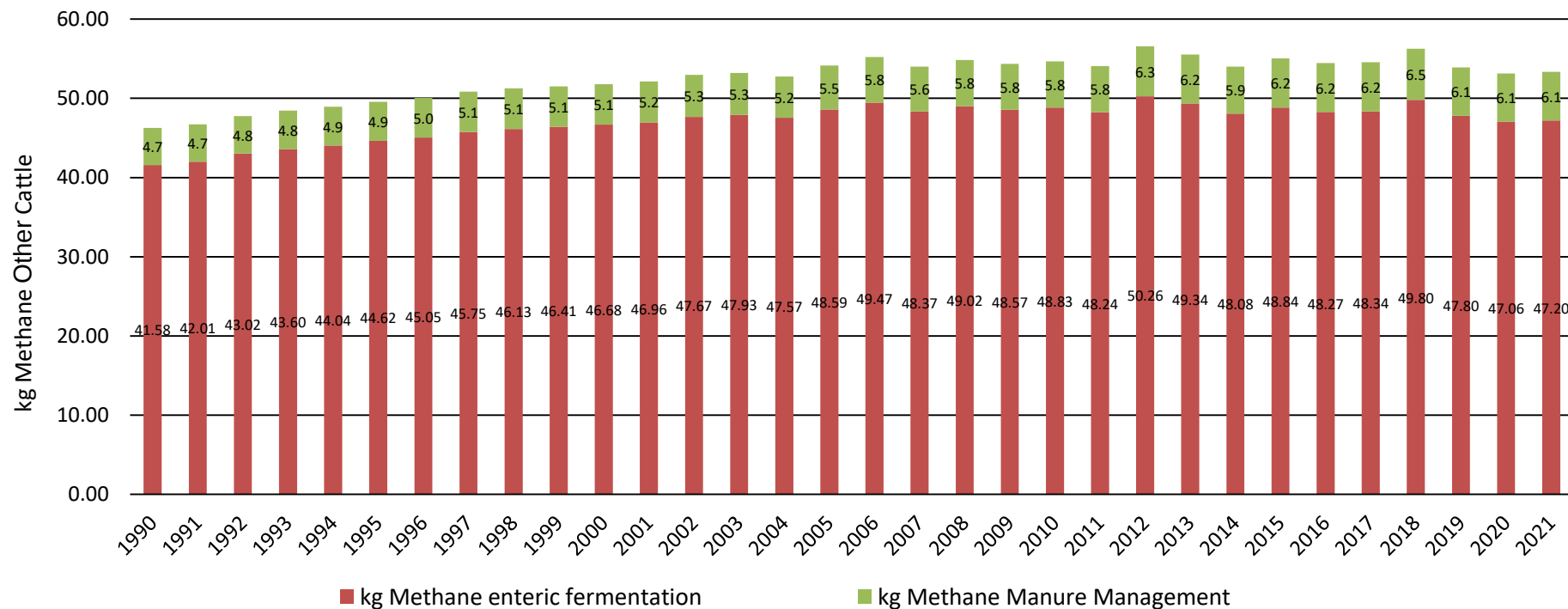
Agriculture emissions drivers - Cattle



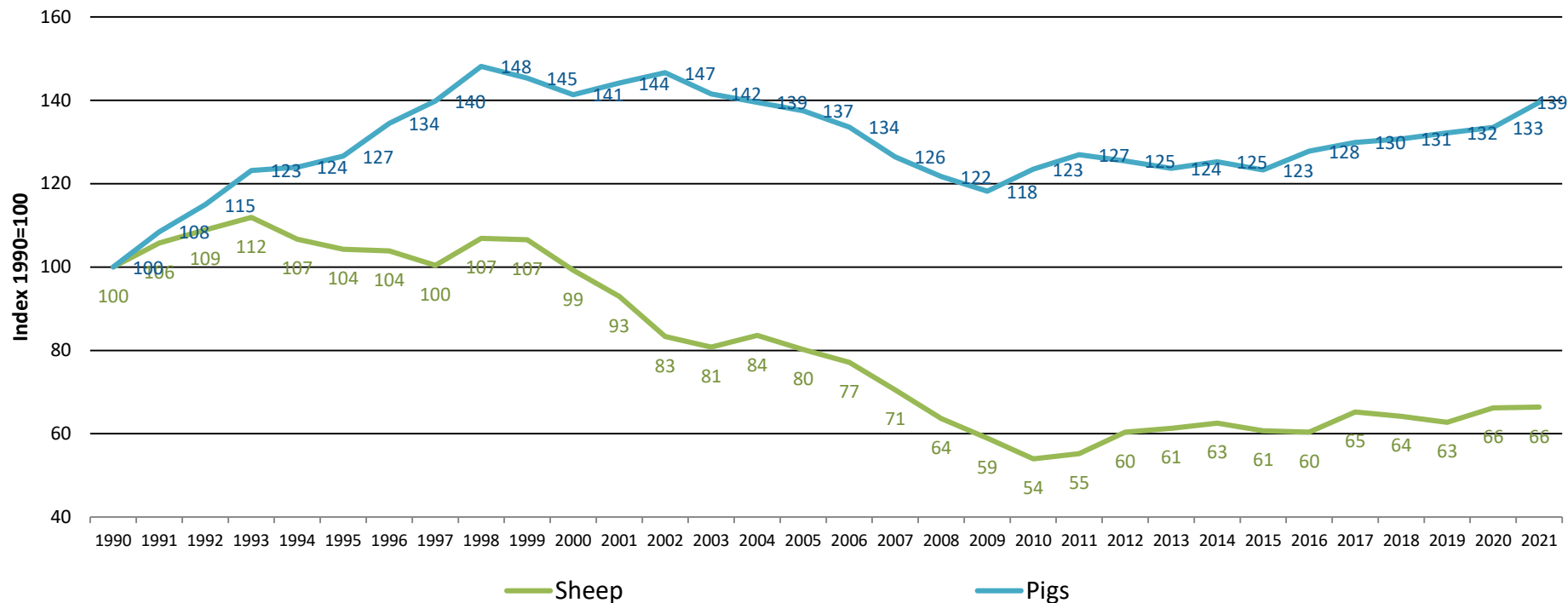
Agriculture emissions drivers- Dairy Cows



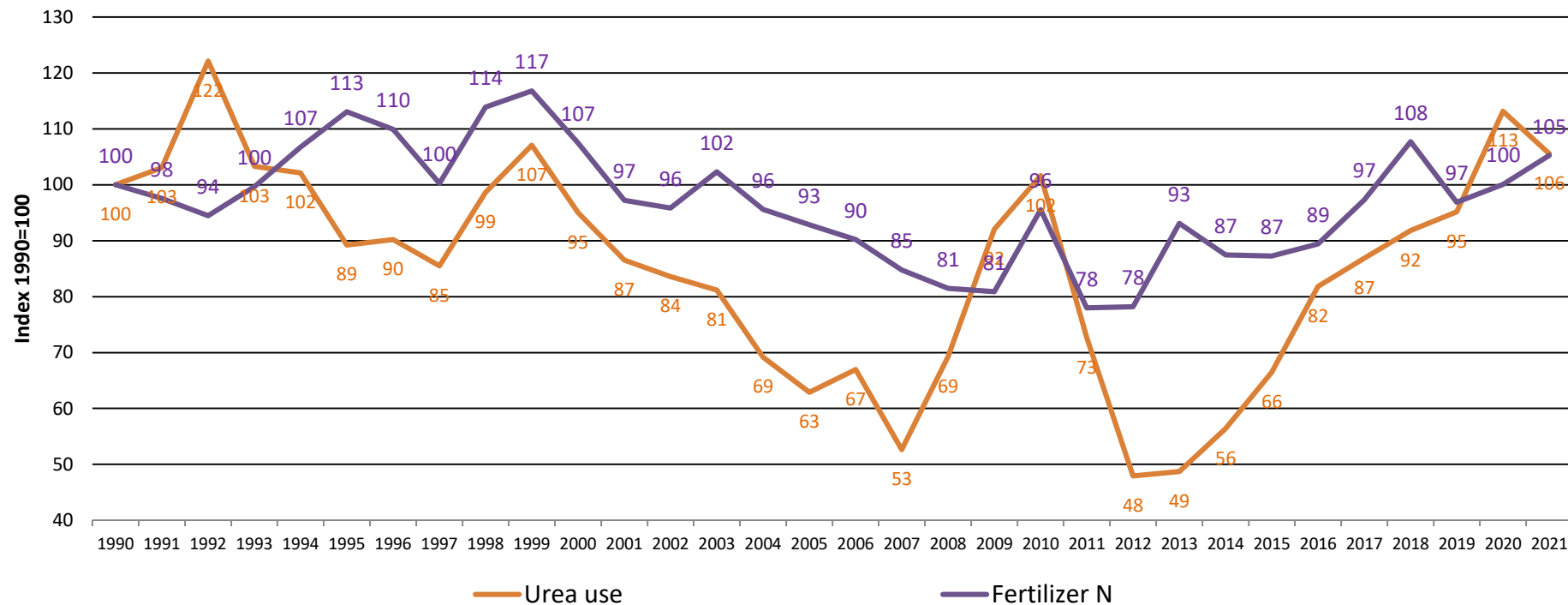
Agriculture emissions drivers- Other Cattle



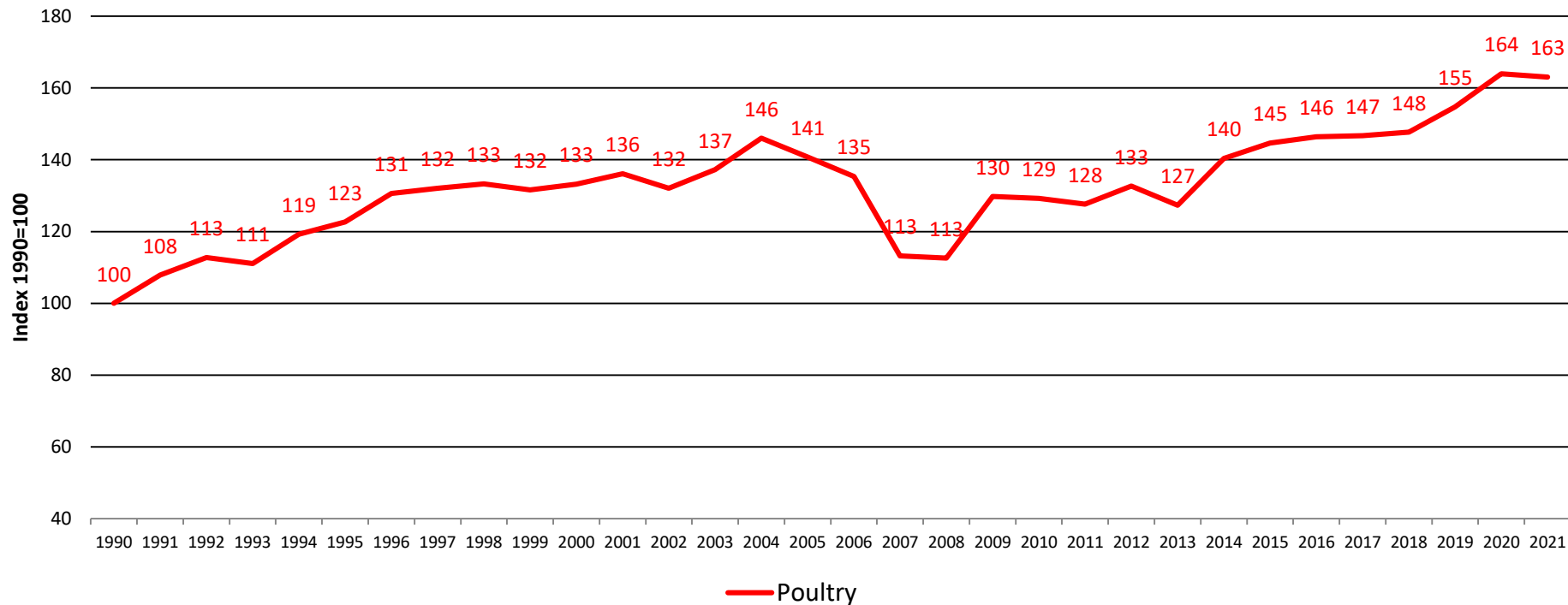
Agriculture emissions drivers – Sheep and Pigs



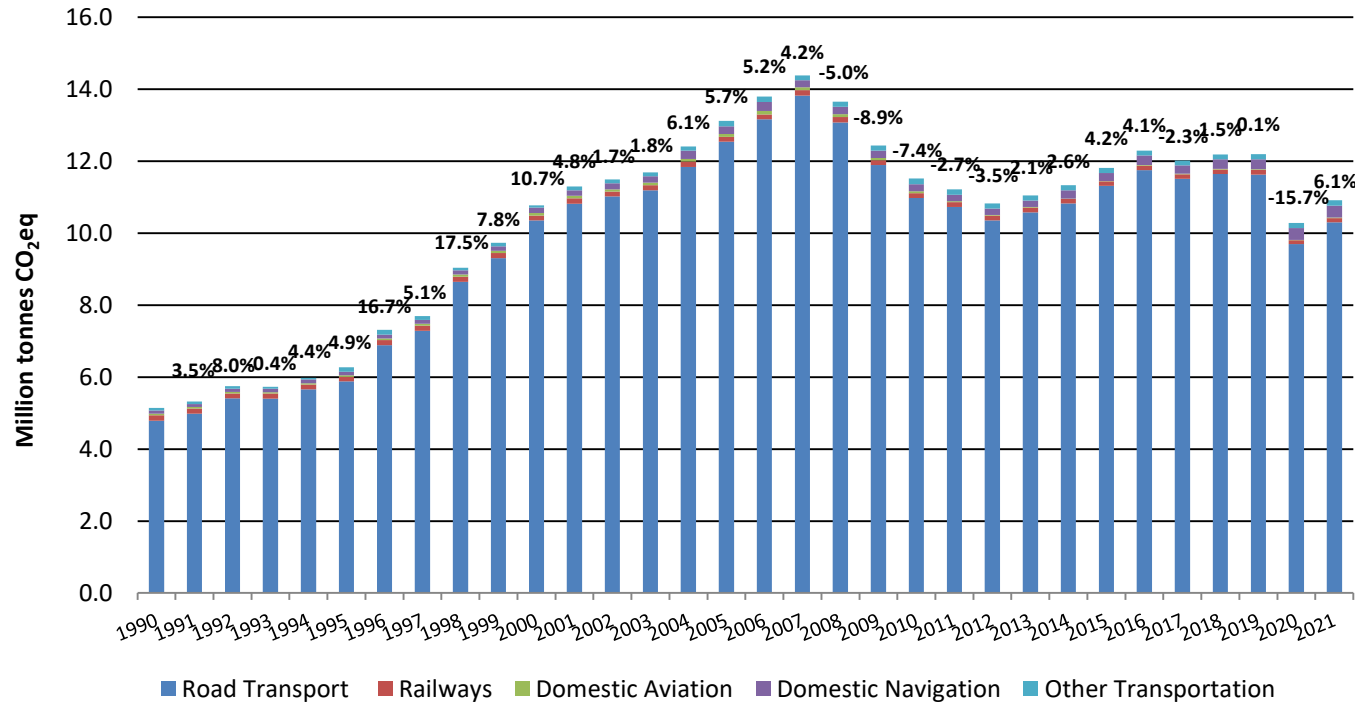
Agriculture emissions drivers



Agriculture emissions drivers



Transport emissions 1990-2021

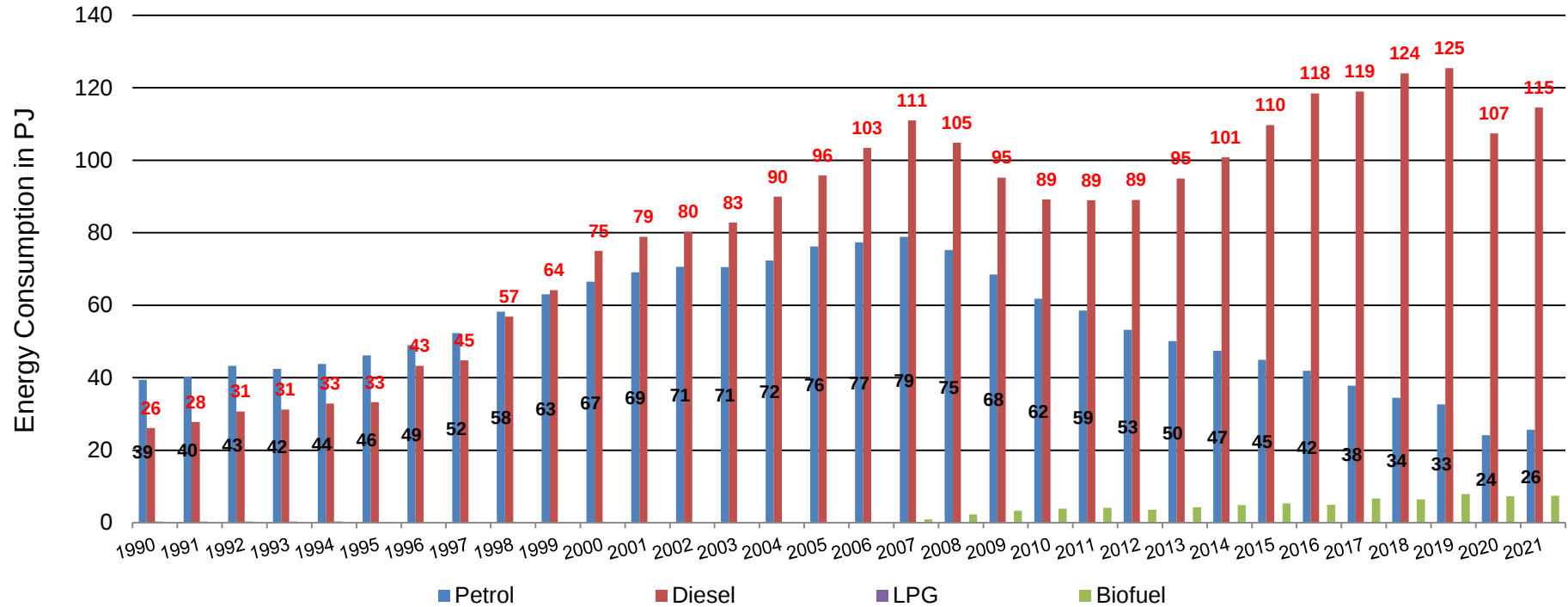


↑ +6.1%
Transport



Rebound in emissions driven by the easing of COVID restrictions. 47,000 electric vehicles (BEV + PHEV) on Irish roads in 2021.

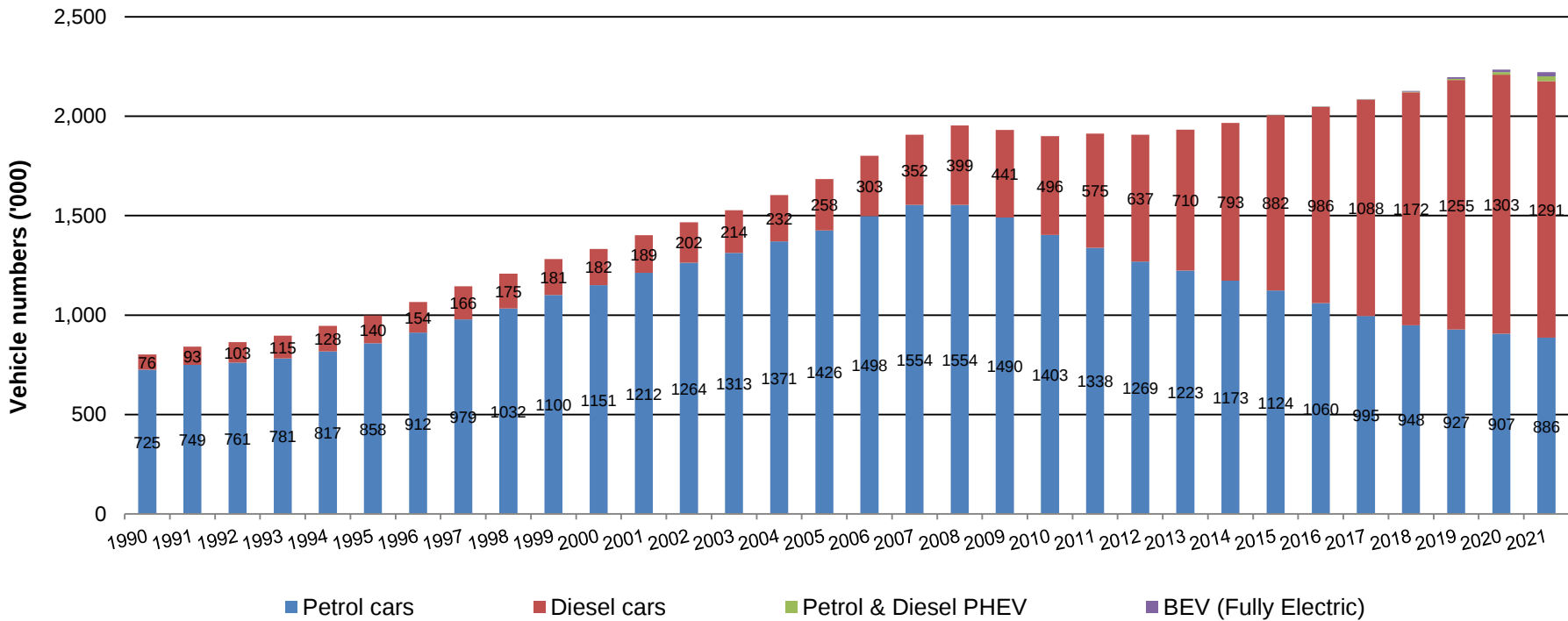
Transport emissions drivers - Fuel



Transport emissions drivers - Vehicles



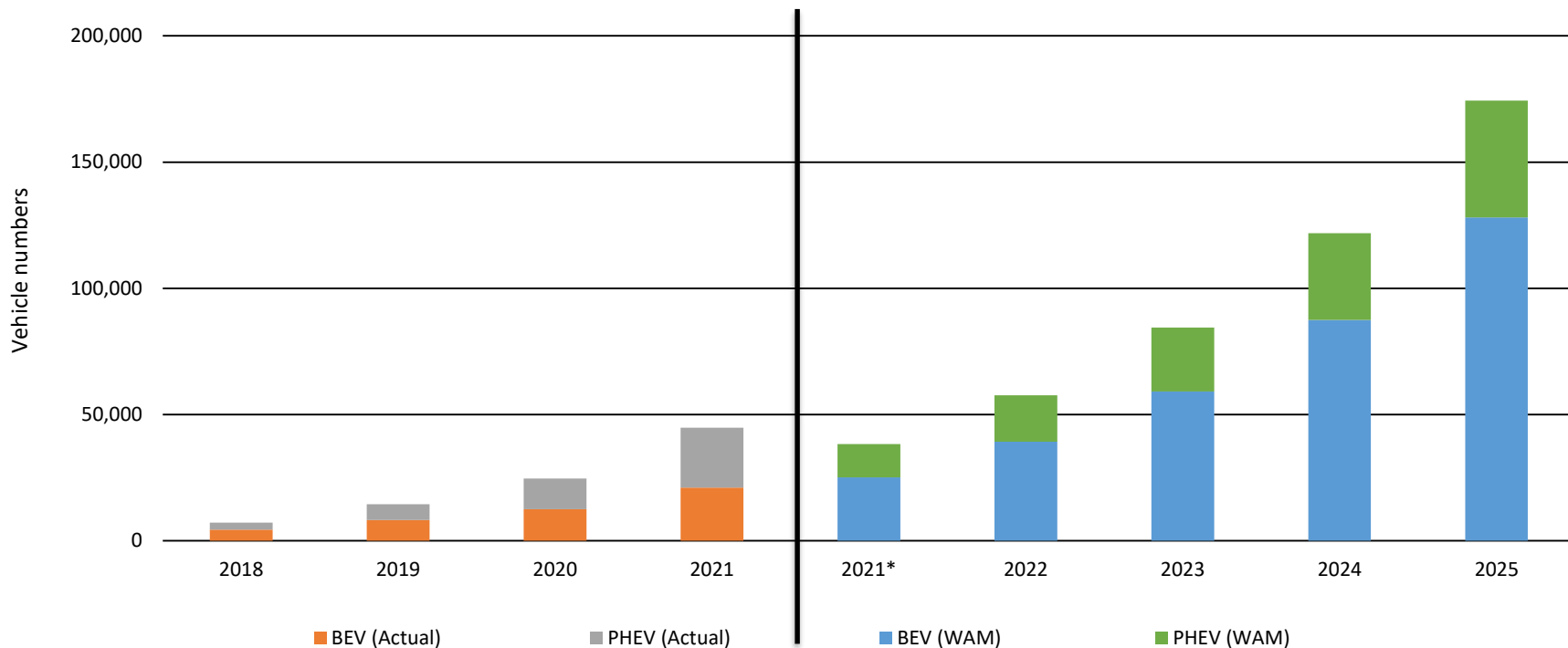
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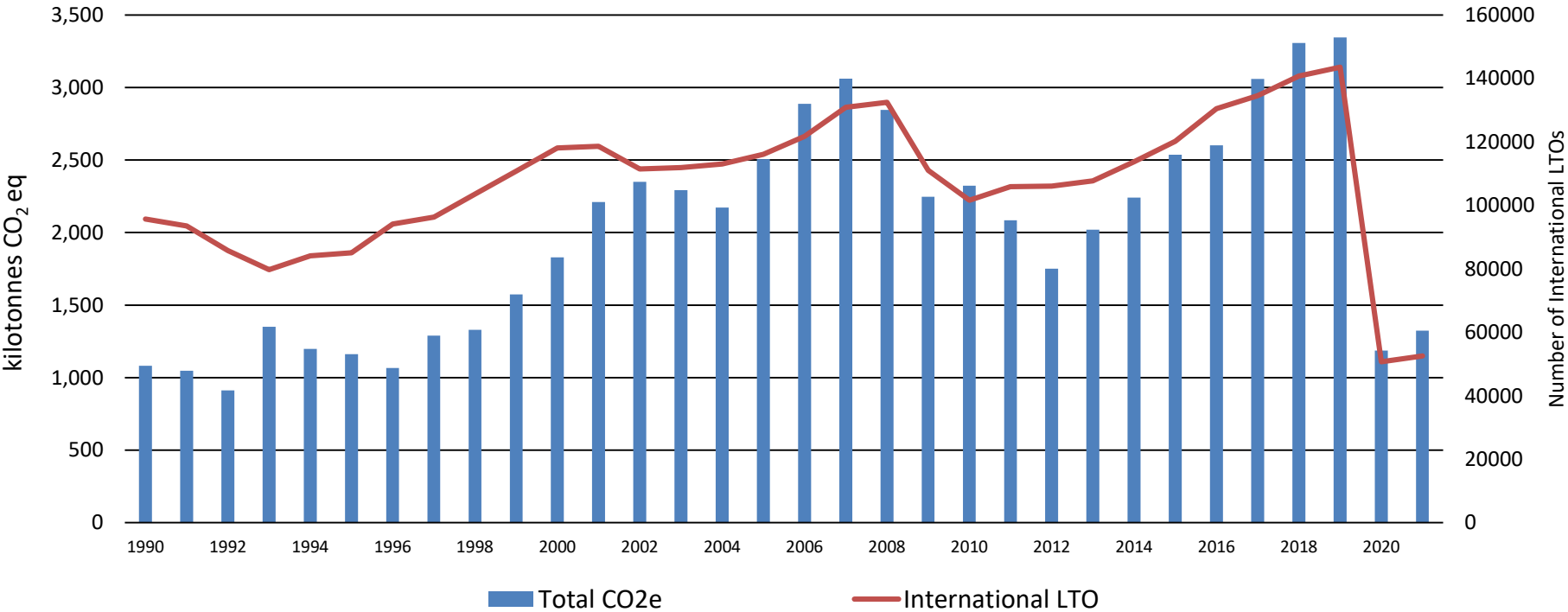
Transport emissions drivers – BEVs and PHEV



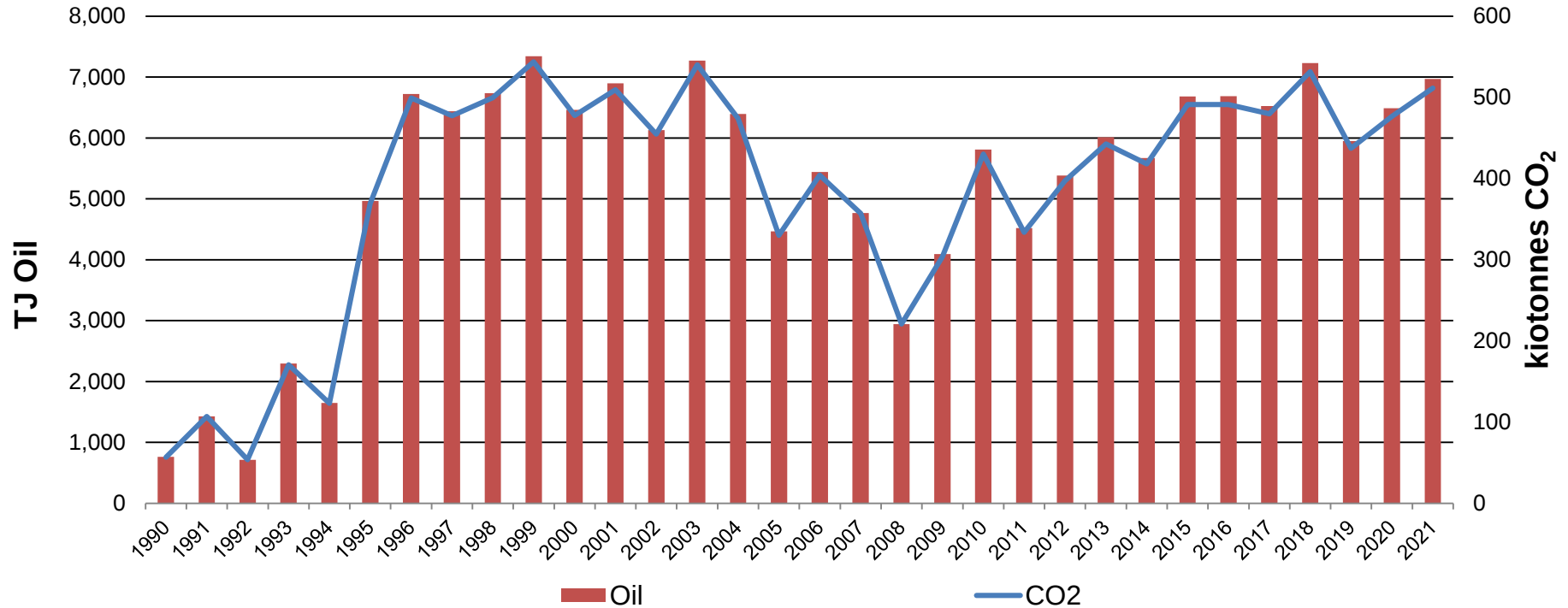
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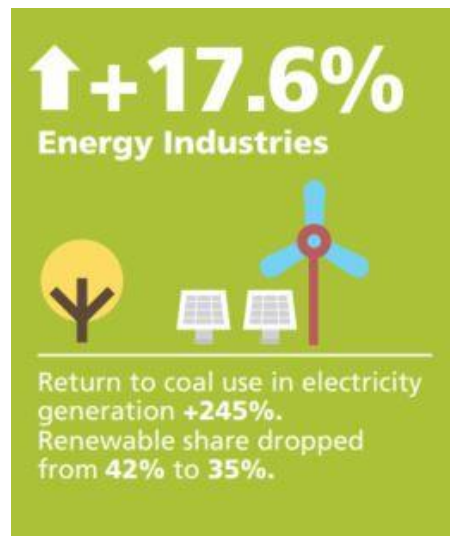
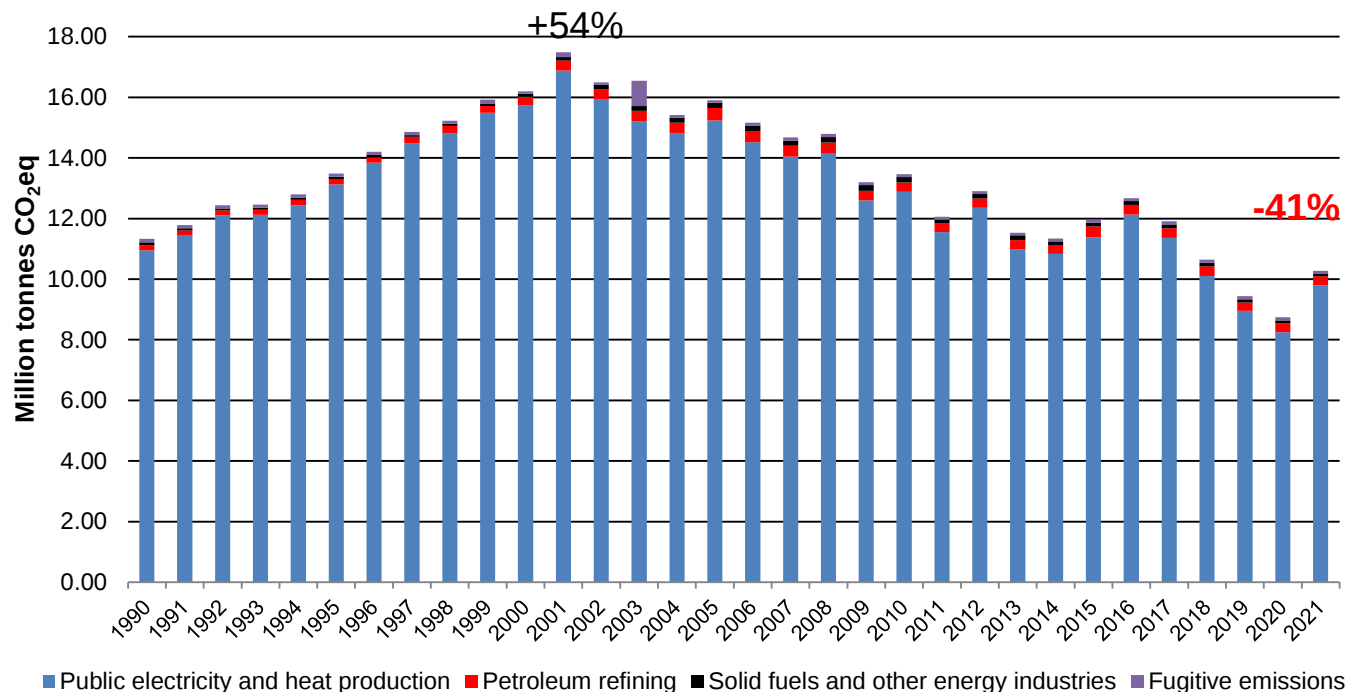
Transport (International Aviation)



International Bunkers (Navigation)

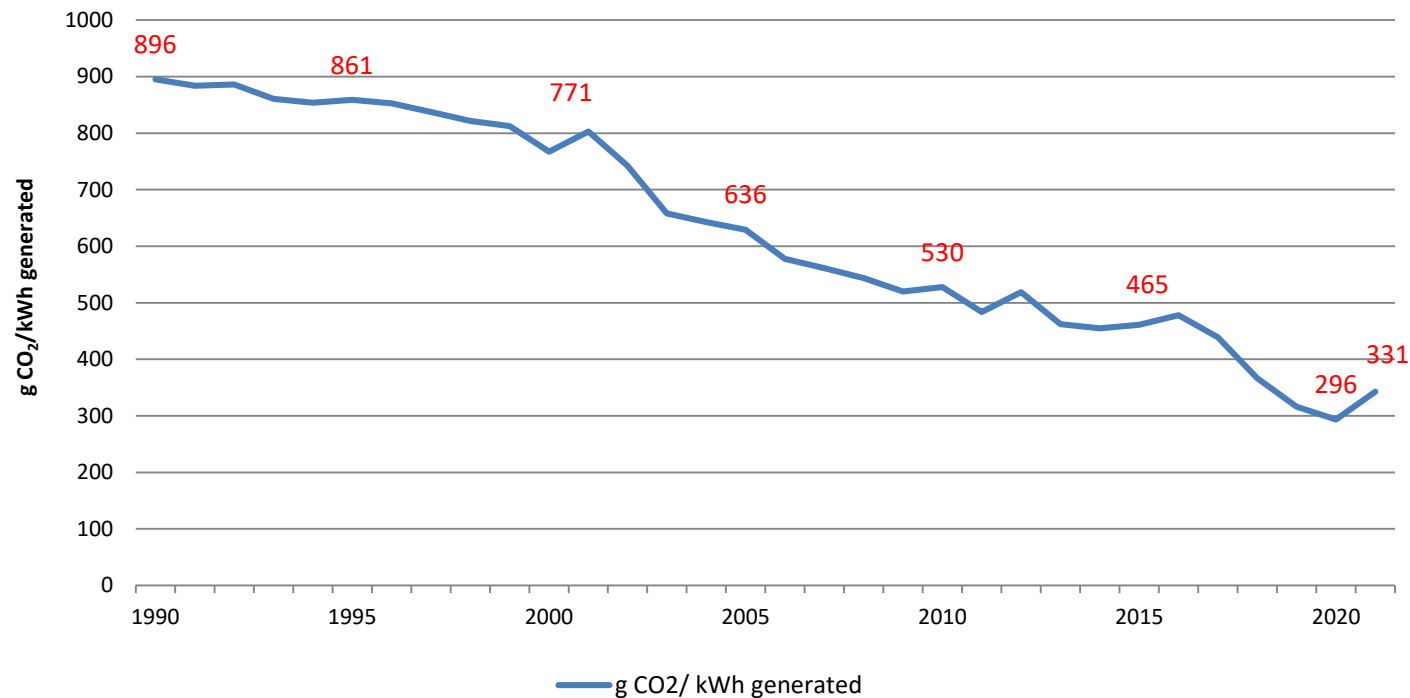


Energy Industries emissions 1990-2021

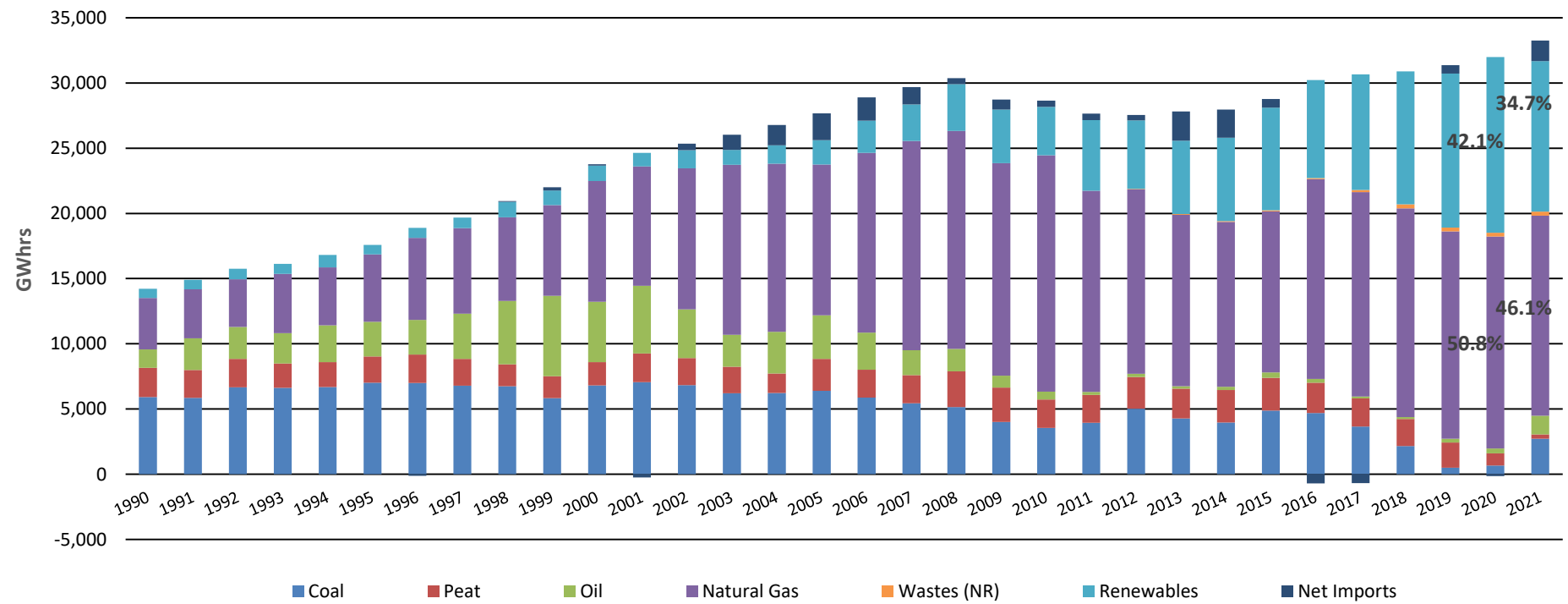


Overall emissions in 2021 are 9.4% below 1990 levels

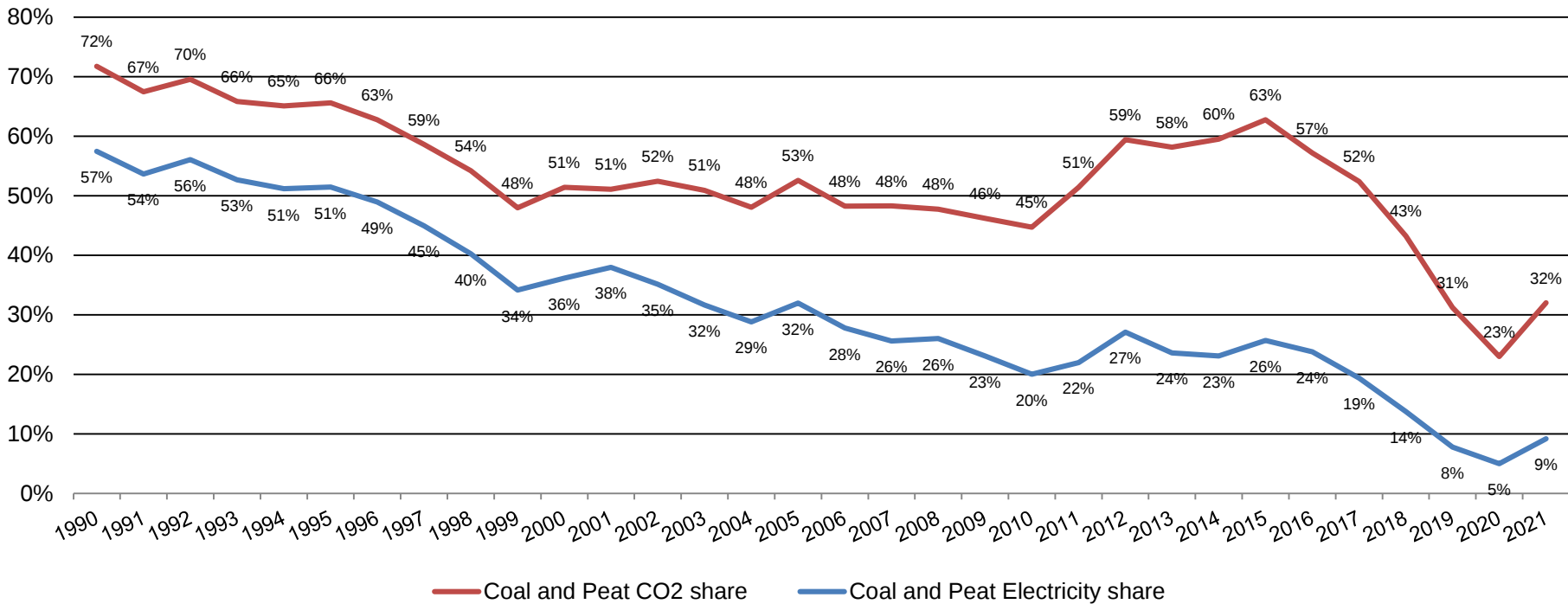
CO₂ Intensity of electricity generation



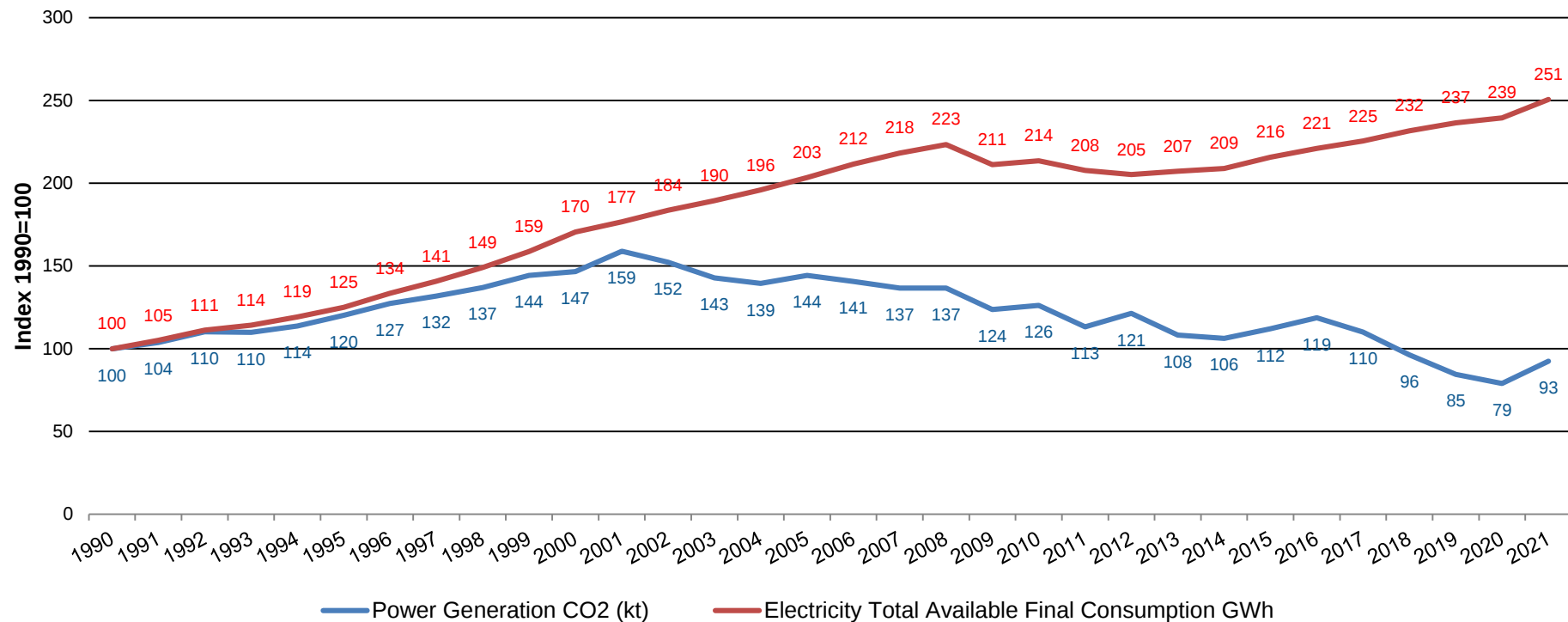
Electricity generation - fuels



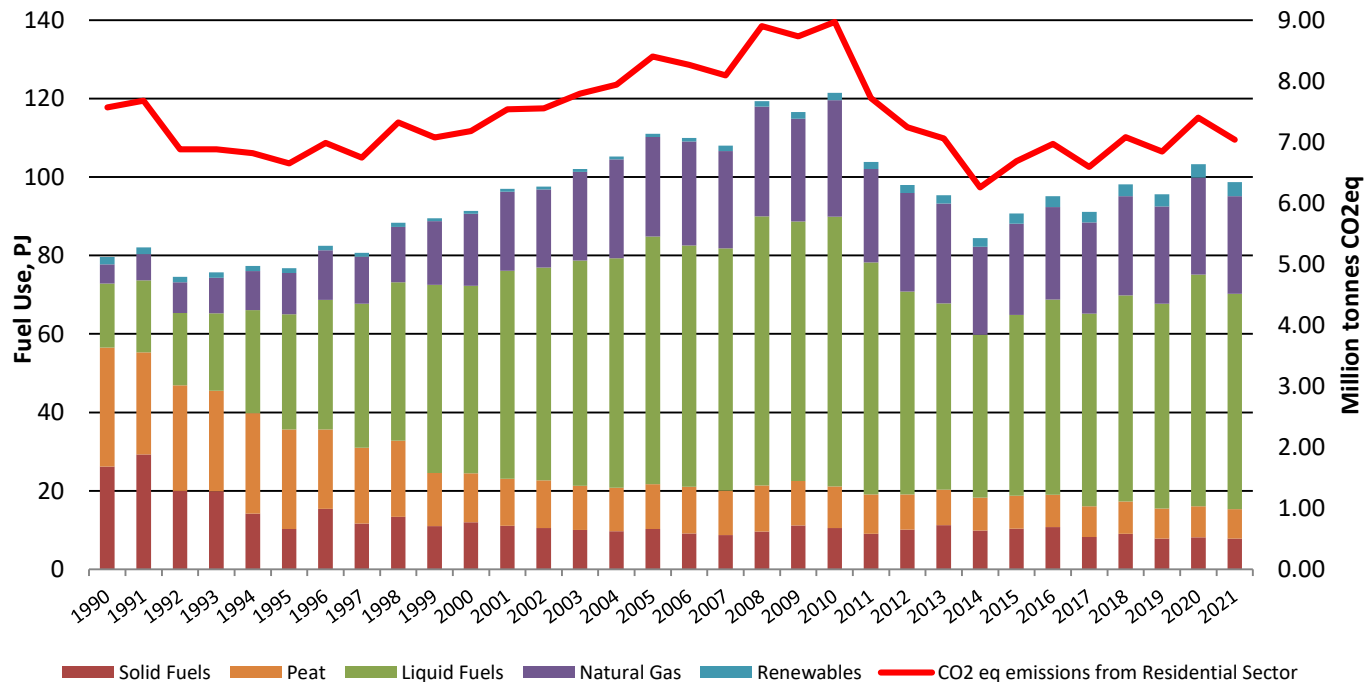
Electricity generation (Coal and Peat) CO₂



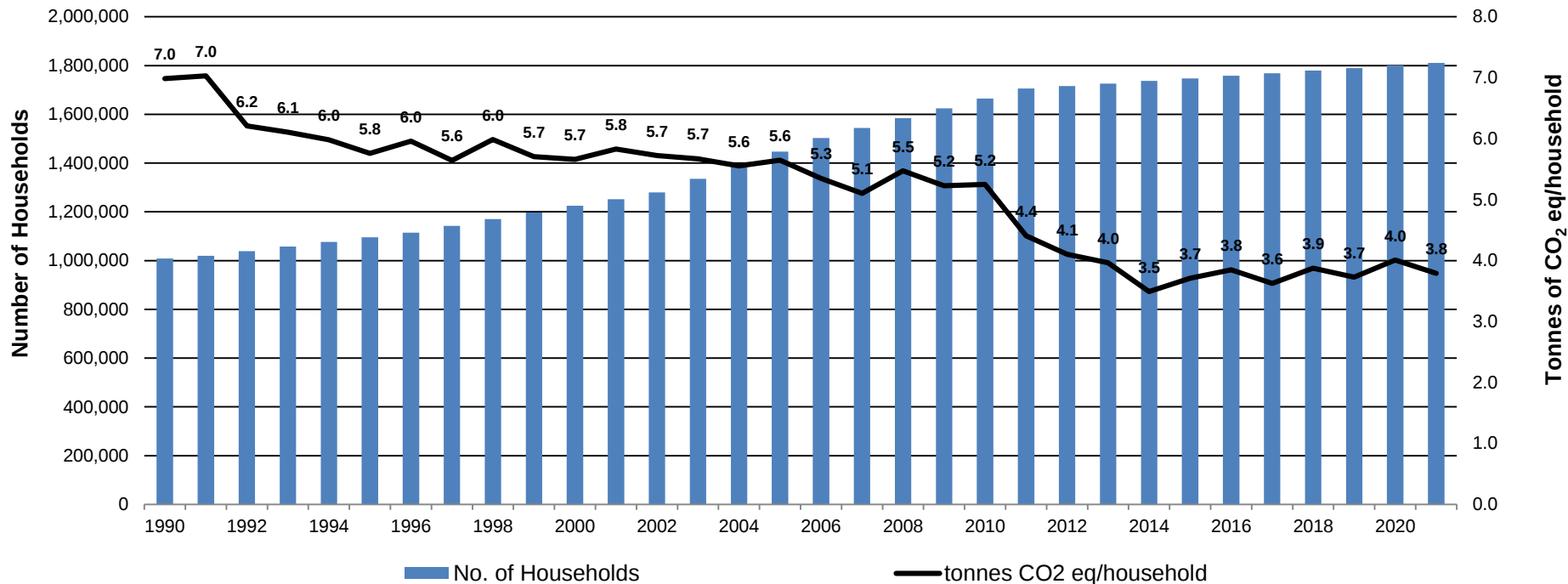
Electricity generation CO₂ and electricity consumption (relative trend)



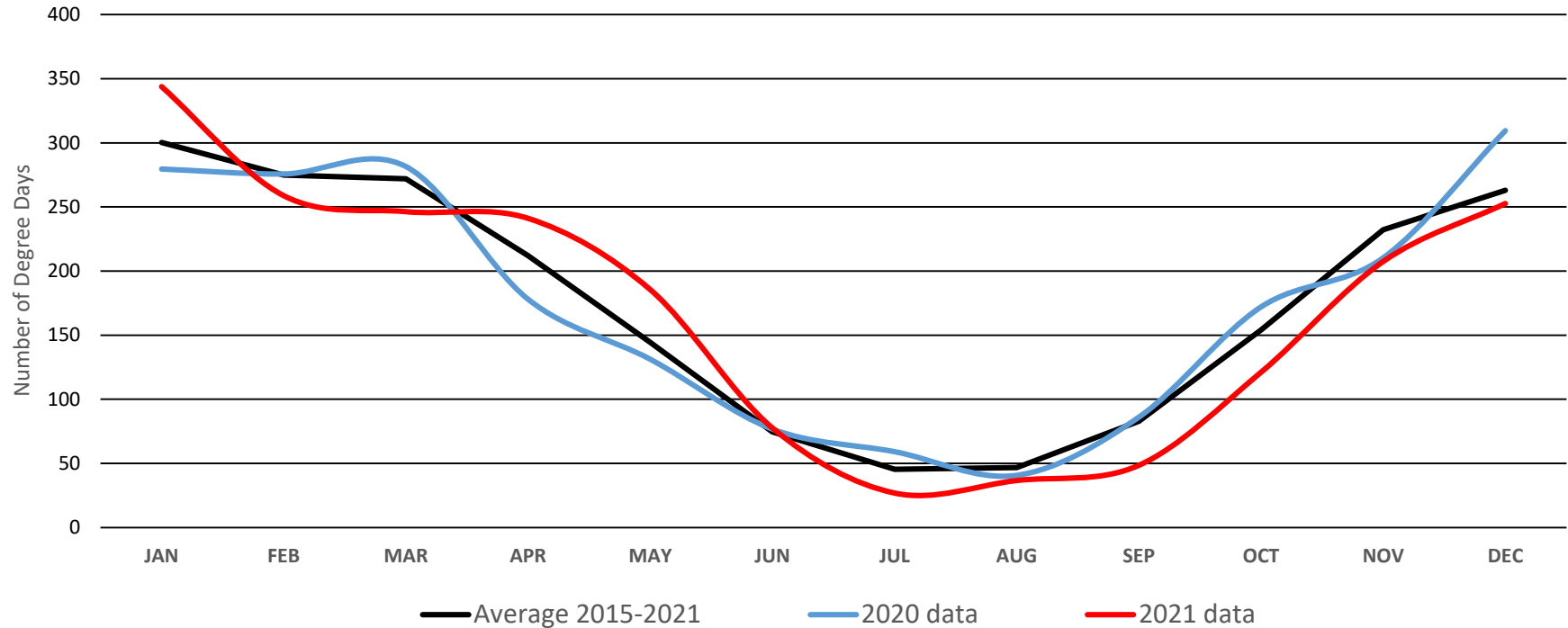
Residential emissions 1990-2021



Residential emissions drivers



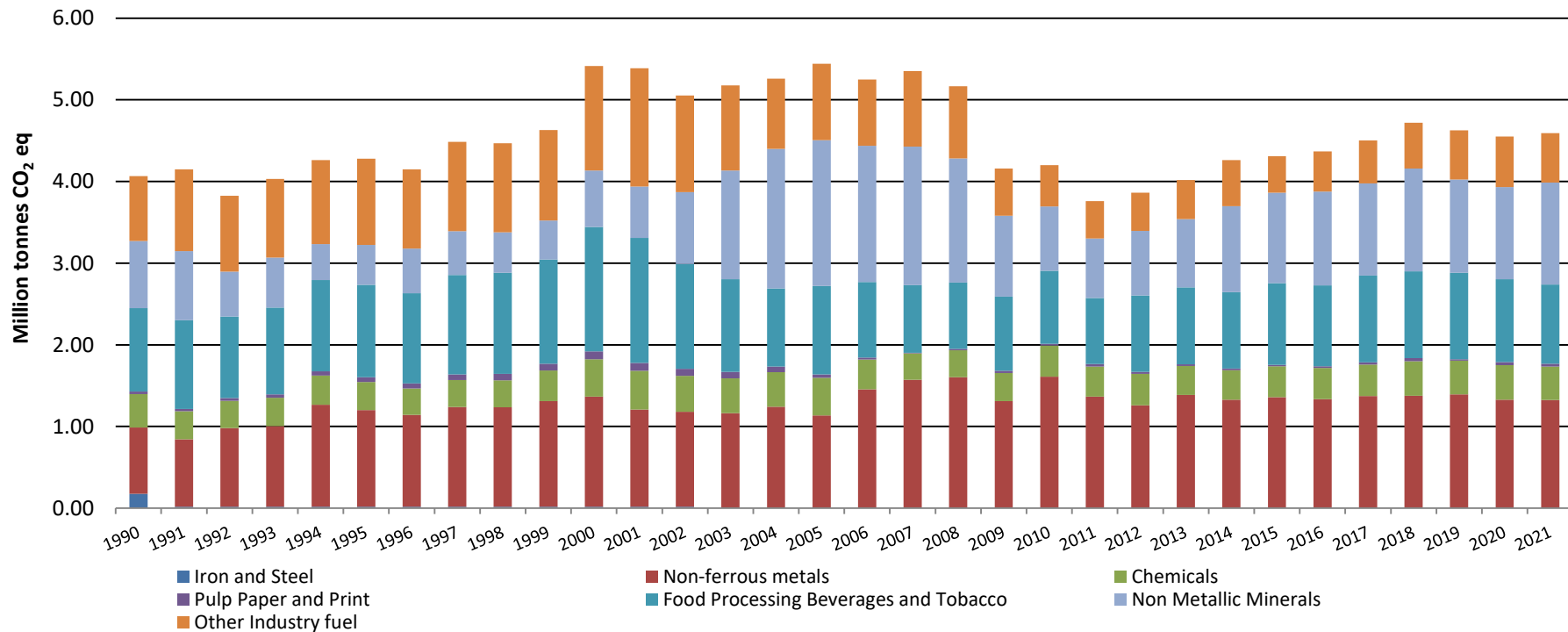
Weather and heating requirement



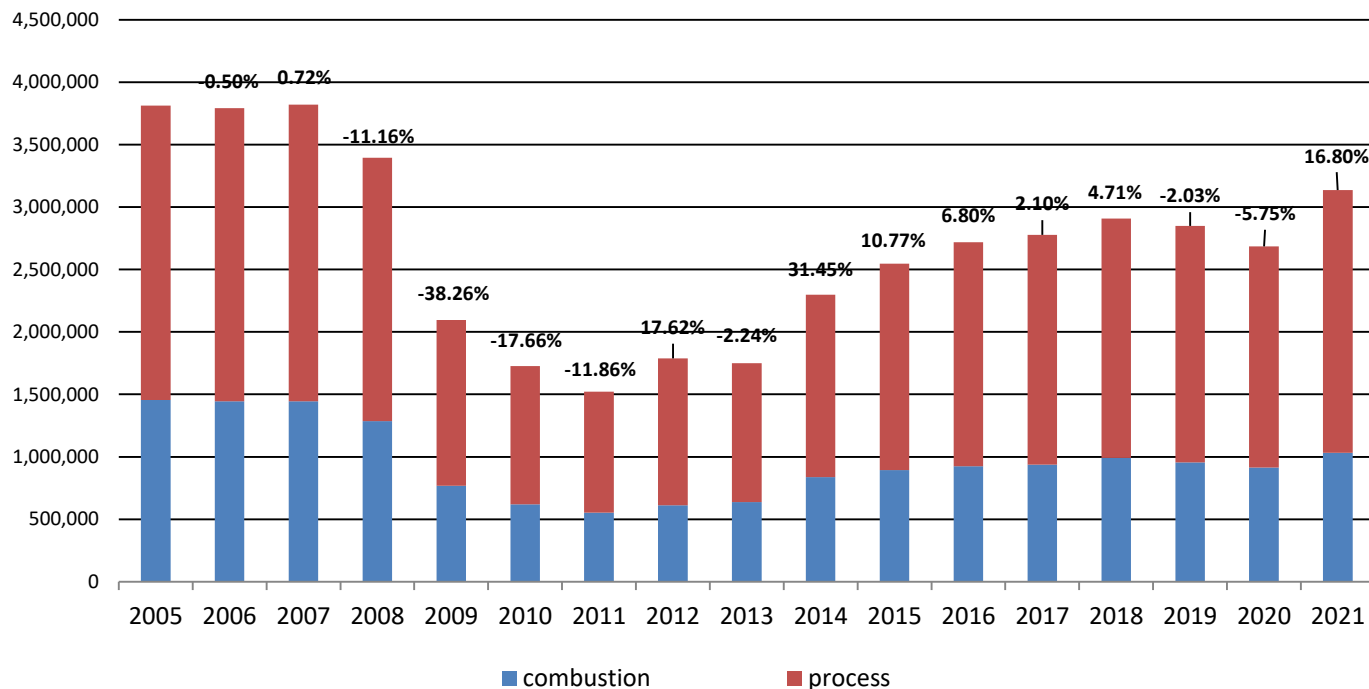
Manufacturing combustion emissions 1990-2021



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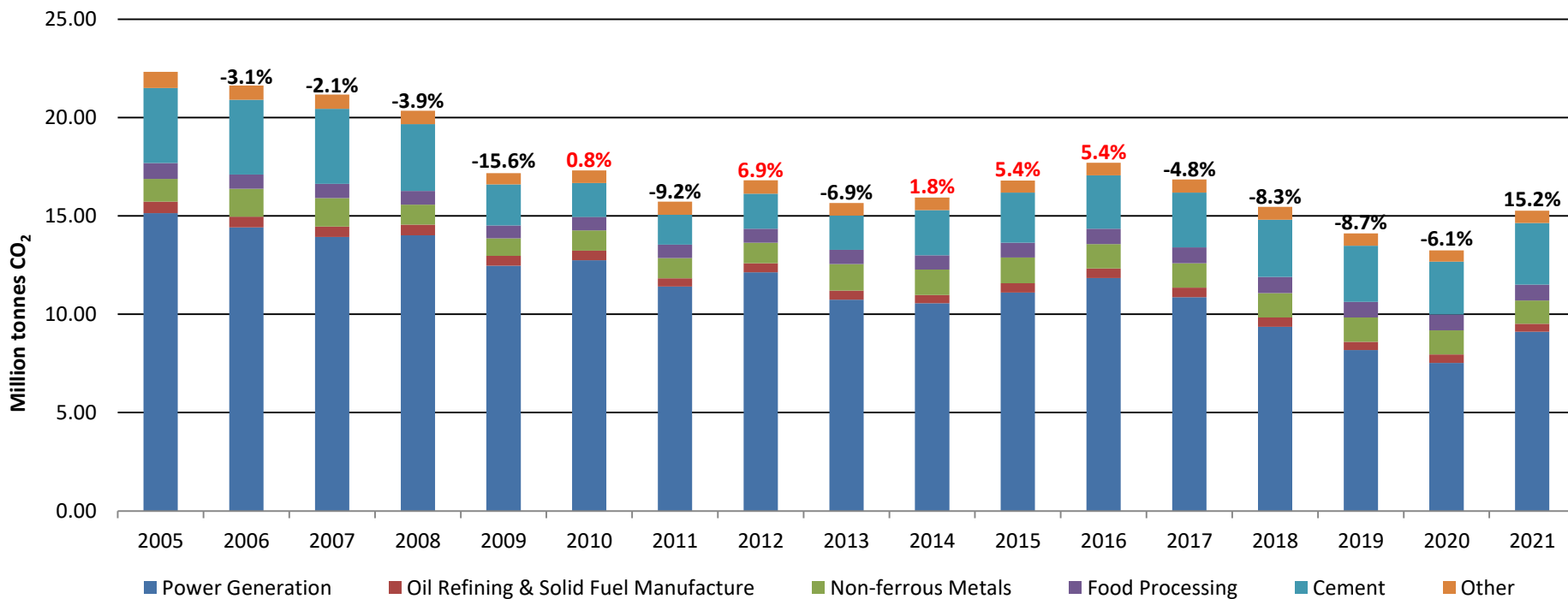
Cement sector emissions 2005-2021



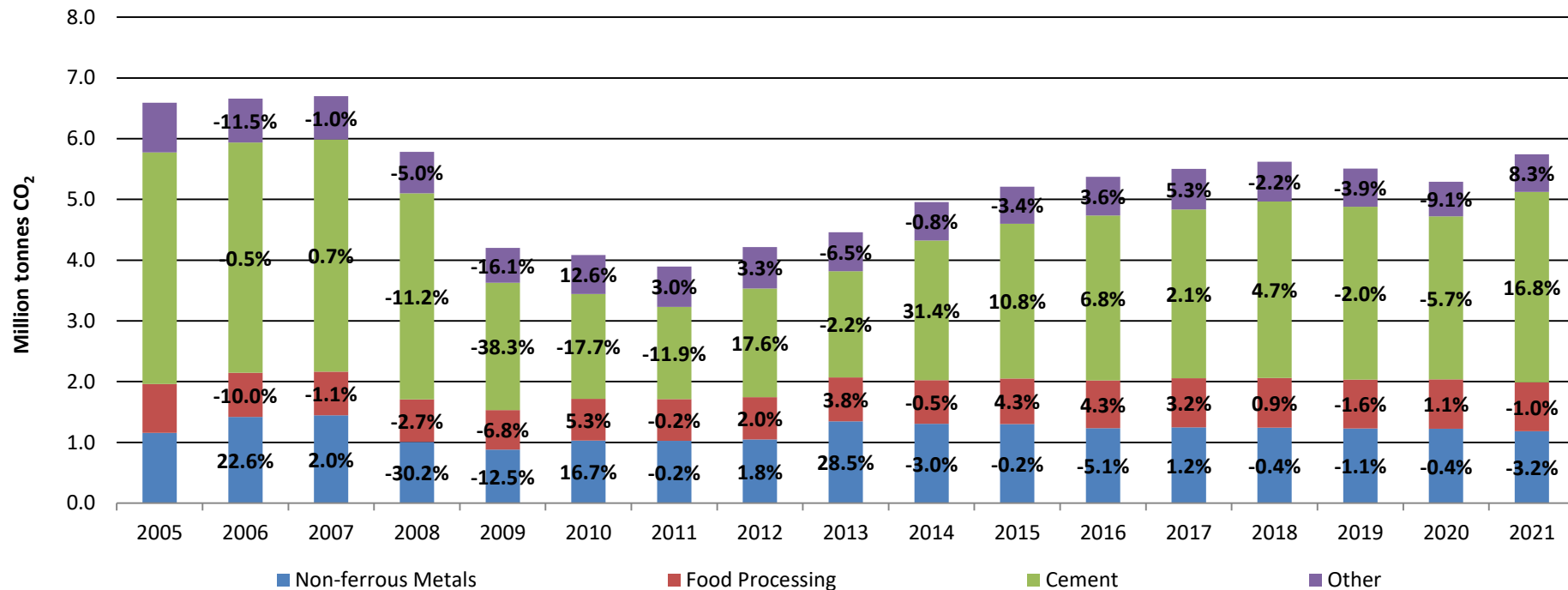
MANUFACTURING AND INDUSTRY


Cement
+16.8% in 2021
over 106% increase
since 2011 downturn

ETS CO₂ emissions 2005-2021



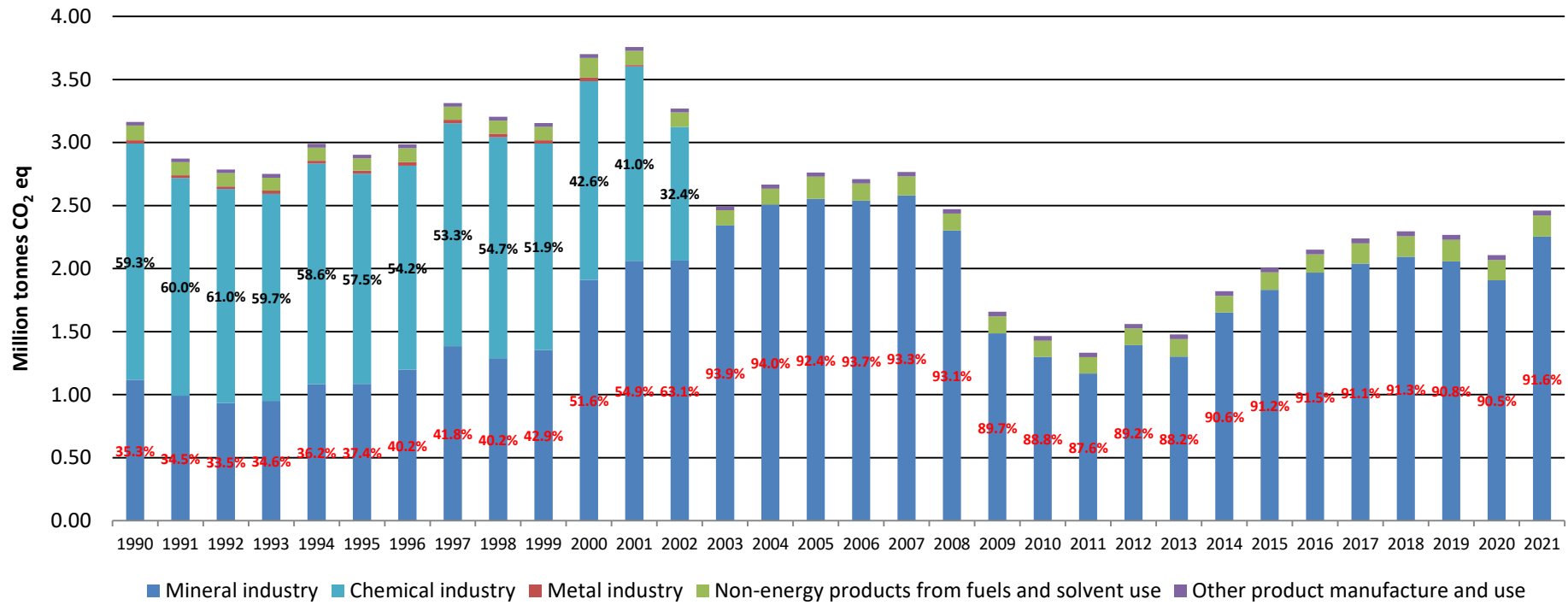
ETS Industry CO₂ emissions 2005-2021



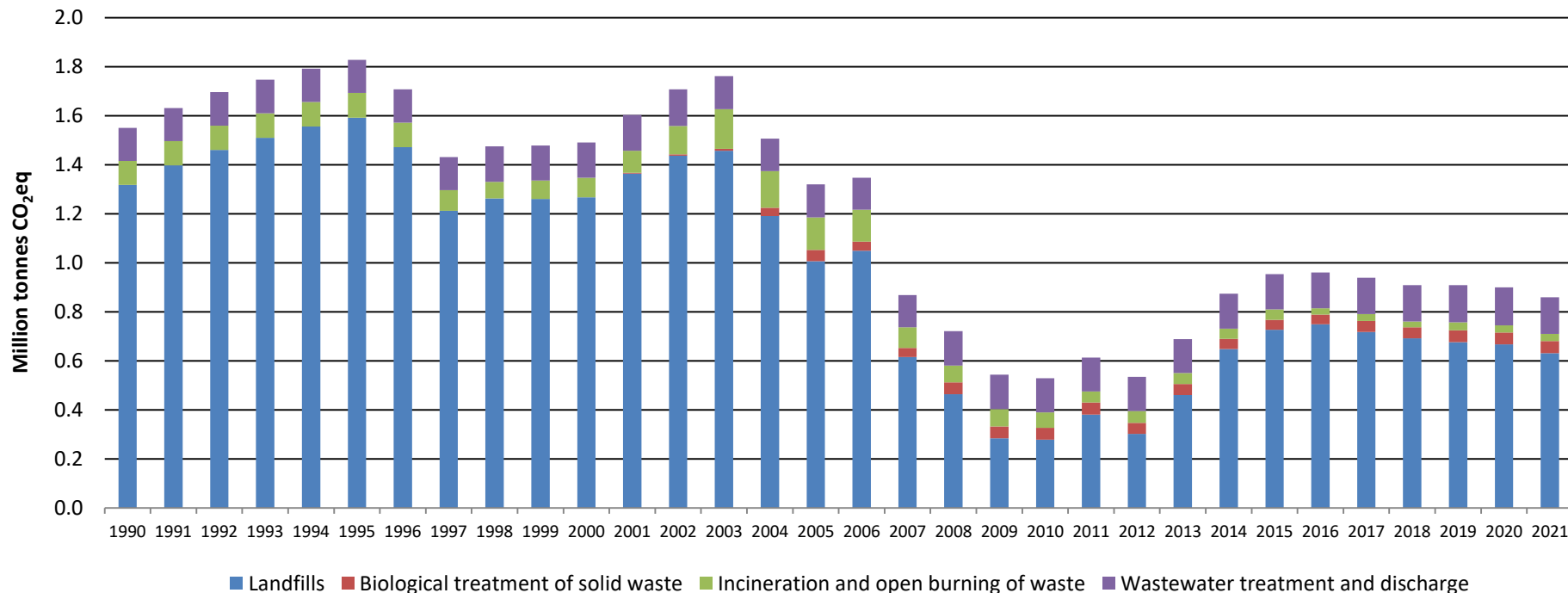
Industrial Processes emissions



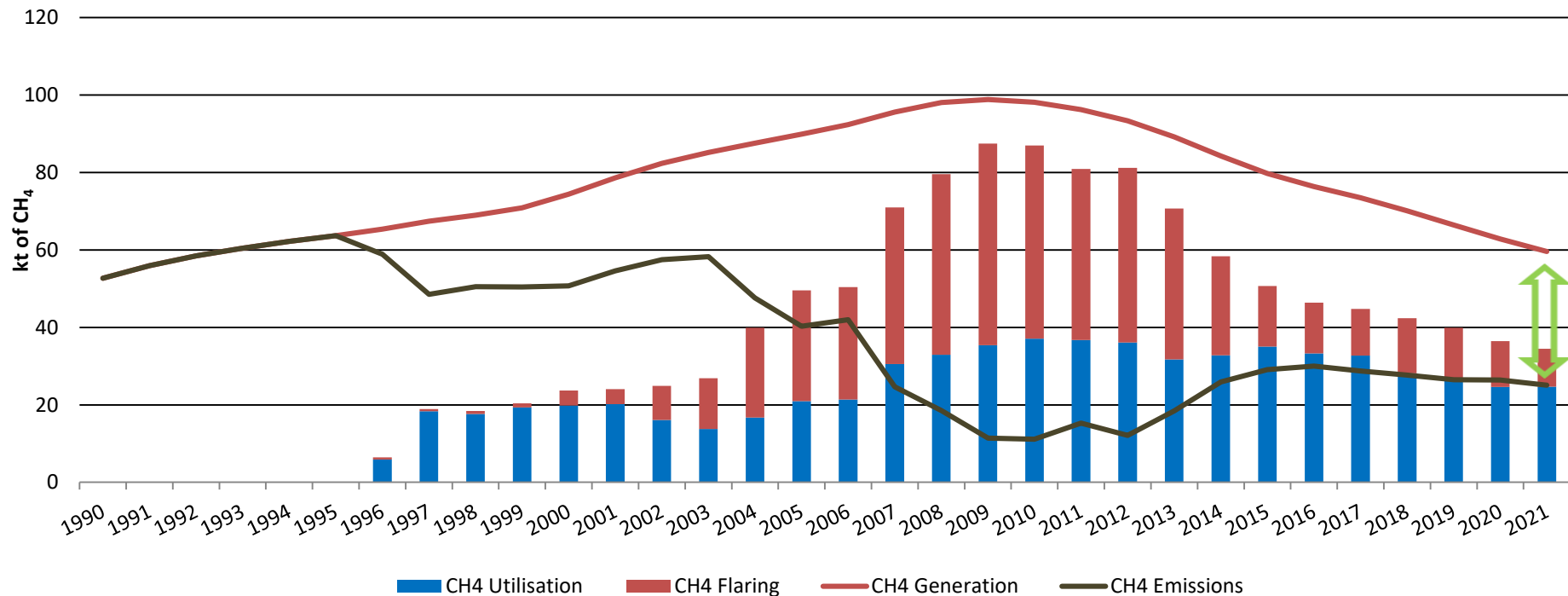
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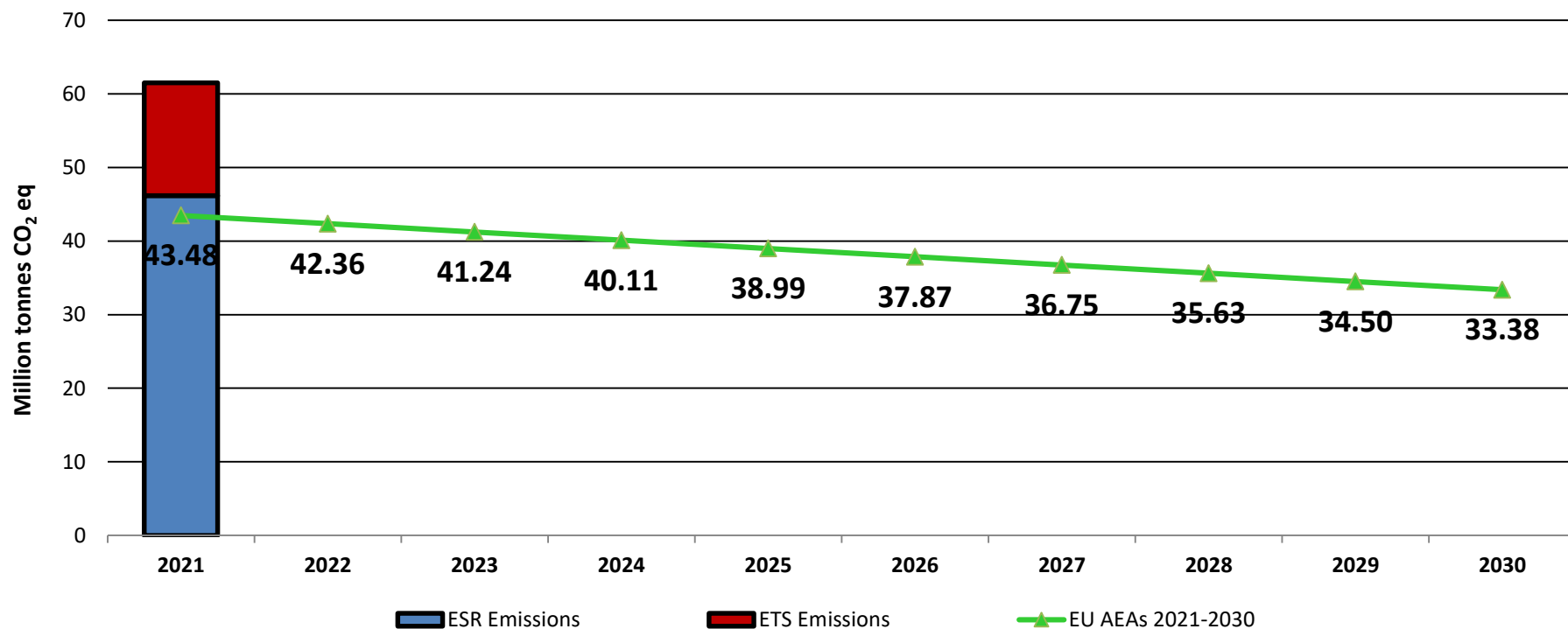
Waste emissions 1990-2021



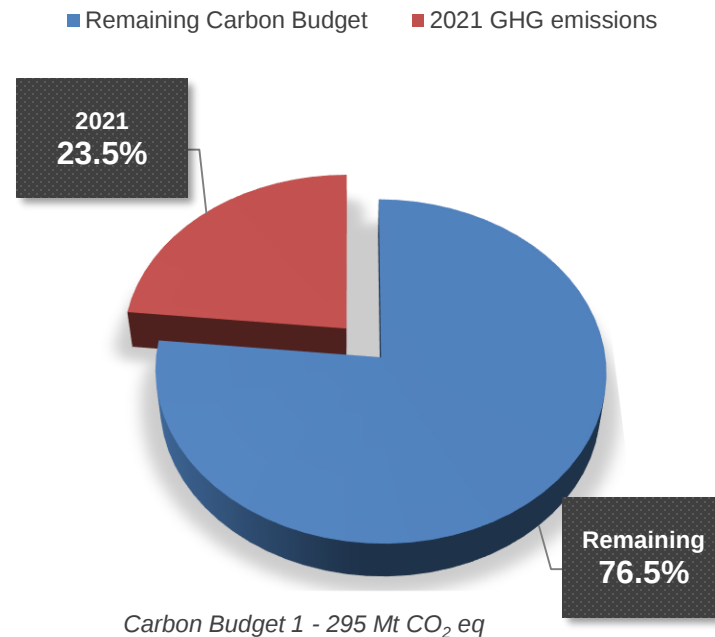
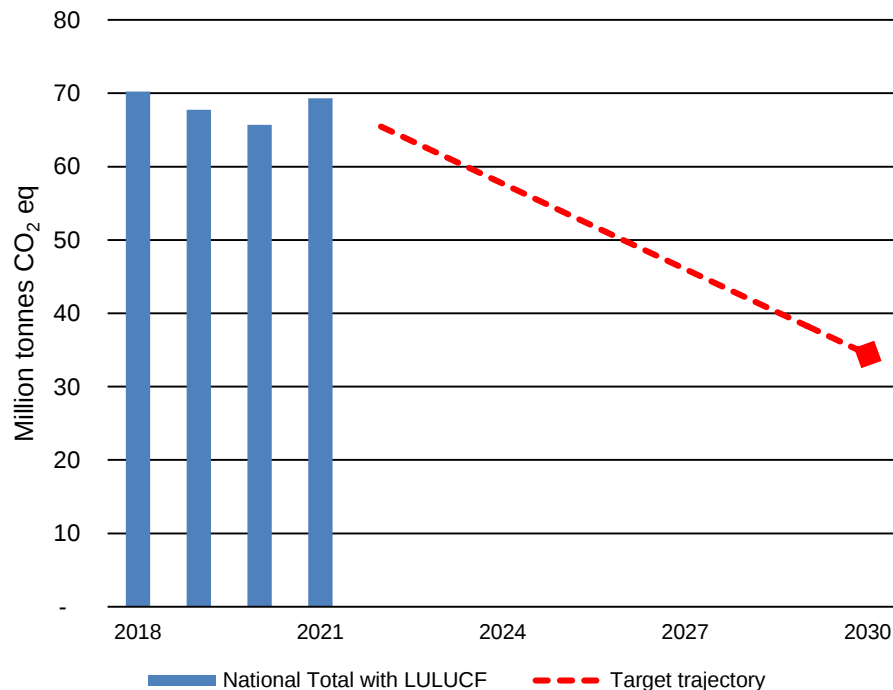
Waste drivers- landfills



European Targets - ESR 2021-2030



Climate Act Target & Carbon Budgets



Home > Our Services > Monitoring & Assessment > Climate Change > Greenhouse gas emissions (GHG)

Greenhouse gas emissions and projections

Ireland must play its part in contributing to efforts to limit climate change. Ireland's national policy position establishes a low carbon vision for Ireland by 2050. Ireland is not on track in terms of its EU Effort Sharing 2020 target. Climate Action Plan measures will need to be swiftly implemented to meet Ireland's targets.

Search



Search for a licence or permit

The EPA's Role in addressing climate change

The EPA's role in addressing climate change challenges includes collating national greenhouse gas emissions and projections; regulating emissions from industrial sectors; supporting climate science research; supporting behavioural change and facilitating the National Dialogue on Climate Action.



What can you do?

Reduce your transport carbon footprint, improve the energy efficiency of your home and avoid food waste - a climate action you can do every day.

Remember:

"EVERY BIT OF WARMING MATTERS. EVERY YEAR MATTERS.

EVERY CHOICE MATTERS"

Intergovernmental Panel on Climate Change



Learn more on
www.epa.ie/ghg.



Greenhouse Gas
EMISSIONS

www.epa.ie

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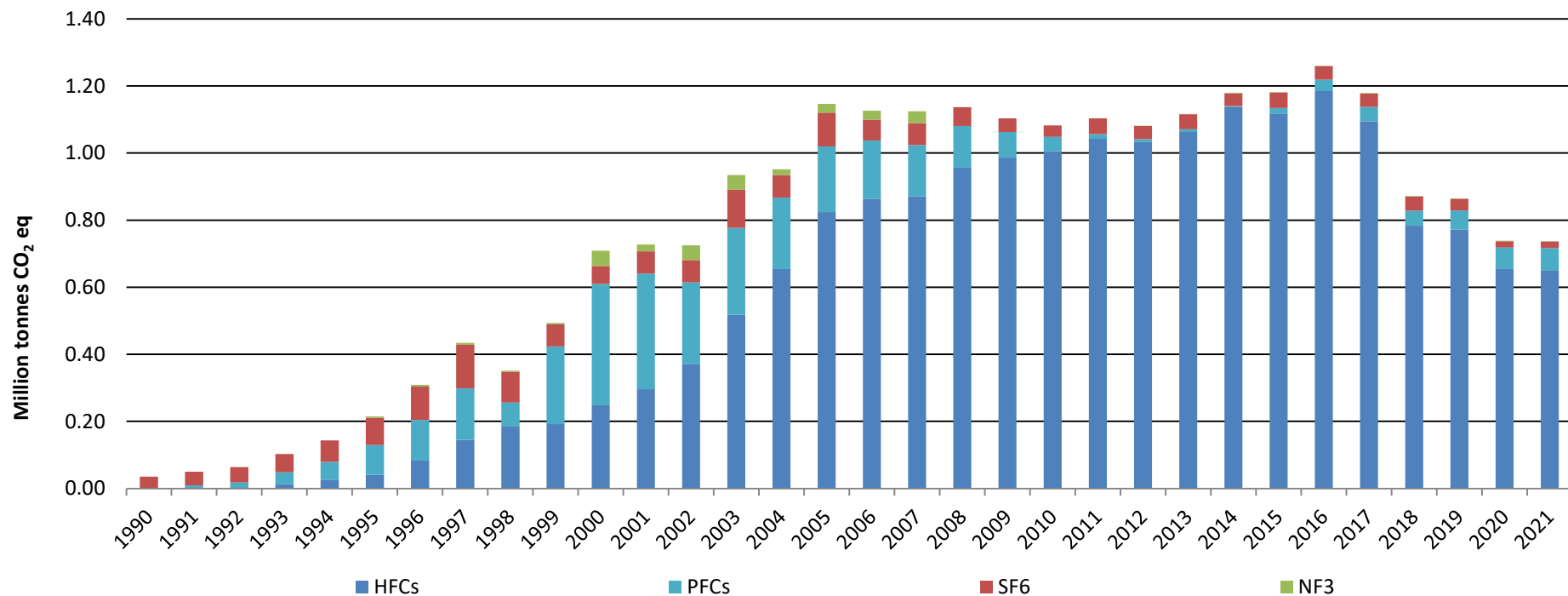
Remaining Sectors

- Emissions from the **Manufacturing Combustion** sector increased by 0.9% or 0.04 Mt CO₂eq in 2021
- Emissions from the **Industrial Processes** sector increased by 16.8% (0.35 Mt CO₂eq) in 2021 due to a increase in cement production
- Emissions from the **Waste sector** decreased by 4.5% in 2021 or 0.04 Mt CO₂eq.
- **F-Gas** emissions were very similar in 2021 with a slight decrease of 0.2% from 2020
- Emissions from **Commercial Services** sector decreased by 3.0% and **Public Services** sector emissions increased by 3.8% in 2021.
- Land use, land-use change and forestry (LULUCF) Emissions increased by 11.9% in 2021 compared to 2020

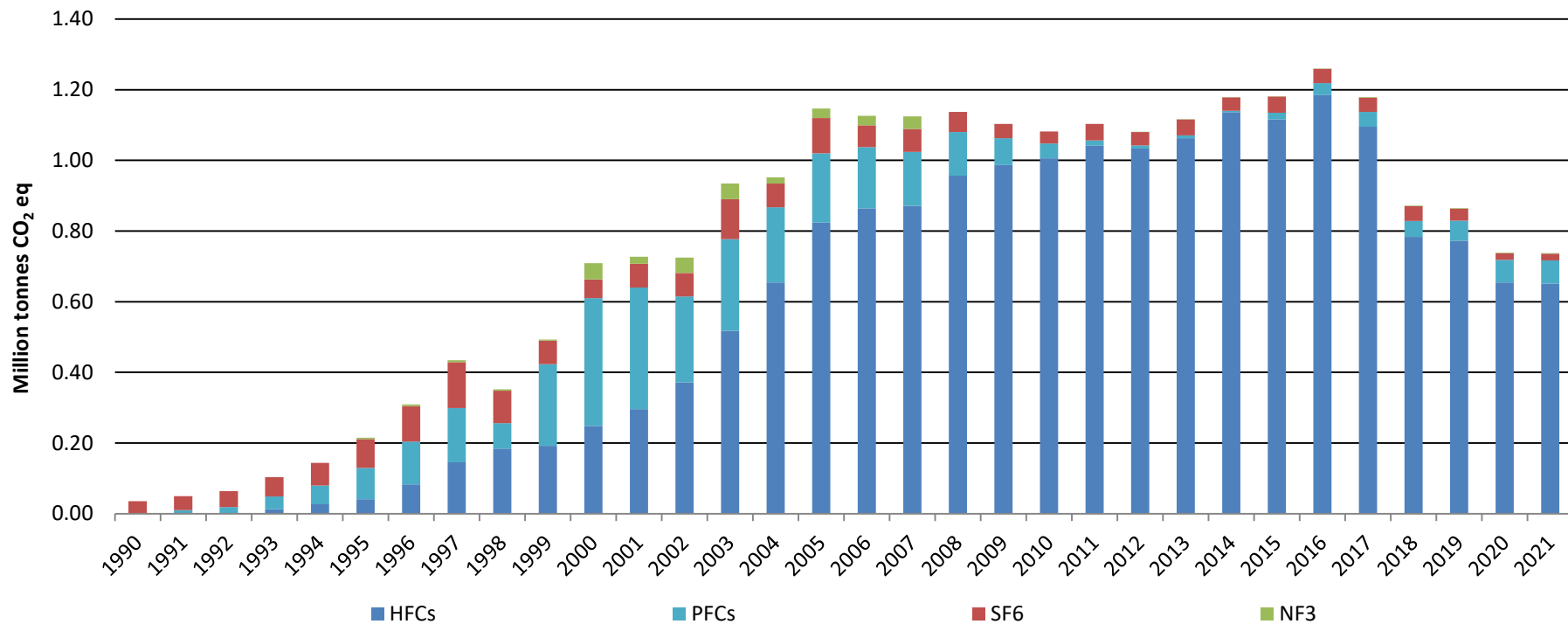
F-Gases emissions 1990-2021



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F-Gases emissions by gas 1990-2021



F-Gases drivers



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