

Multilateral Assessment Luxembourg

SBI 52-55 - Glasgow - 5 November 2021

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Director General



THE GOVERNMENT OF THE GRAND DUCHY OF LUXEMBOURG Ministry of the Environment, Climate and Sustainable Development



National circumstances

2020 - 2030 - 2050 targets

GHG emissions & removals trends

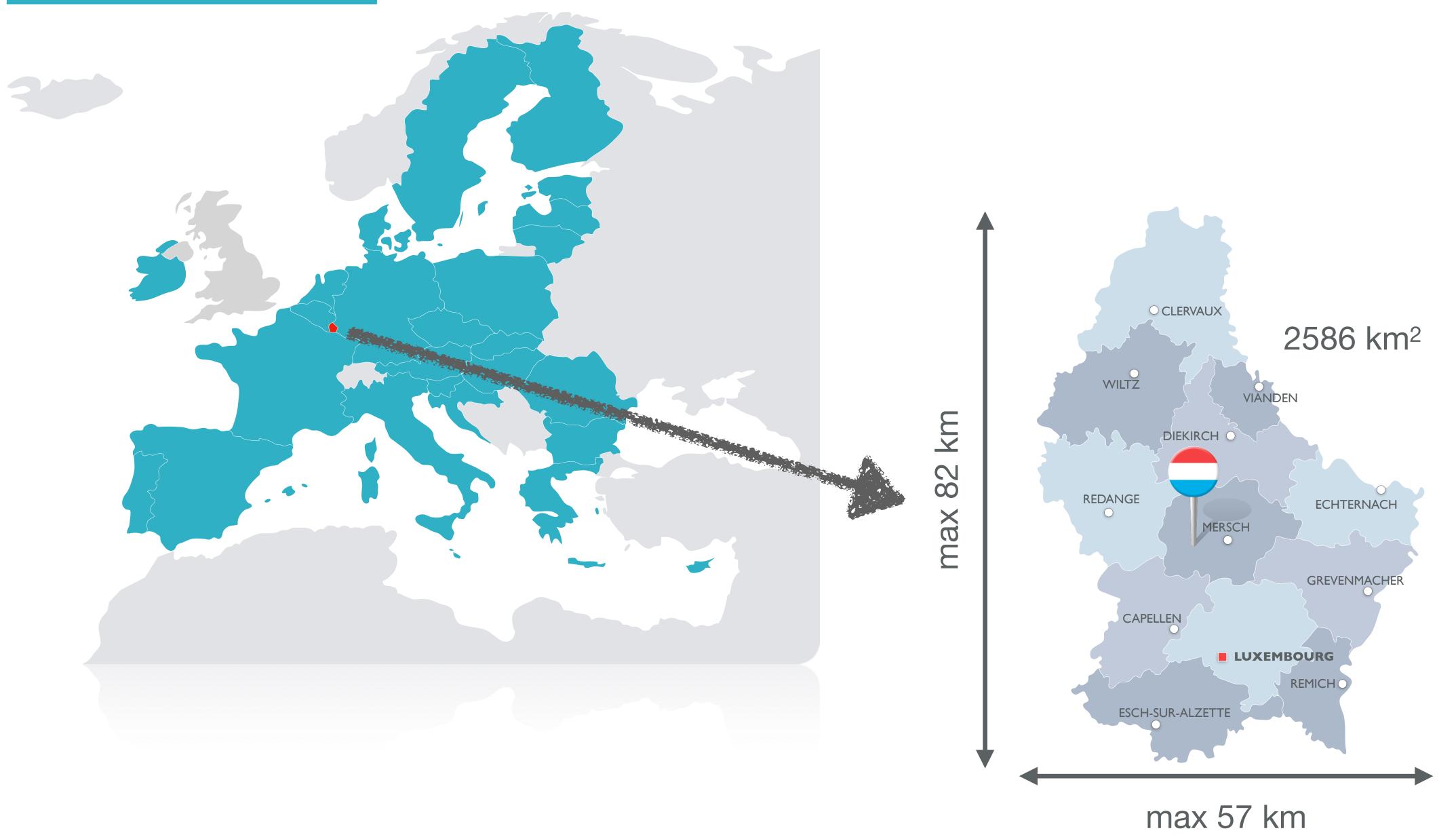
Climate policy & governance

Key policies & measures

Experiences with the IAR process



National circumstances





National circumstances



Country location



at the heart of the main Western European N-S & E-W transit routes for both goods & passengers

Strong population growth due to immigration

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- 31st Dec. 2020: 634,700
- 2005-2020: + 35%
- est. 2050: 981,900

Strong cross-border commuters growth due to economic development



- 31st Dec. 2020: 200,800
- 2005-2018: + 65%
- est. 2050: 320,000

Country & economy sizes



- potential significant impact of a single new industrial project or of a shutdown
- only a few large energy consumers



- high dependence on energy imports (oil, gas & electricity)
- limited RES potential
- focus on solar, wind, heat pumps, biomass



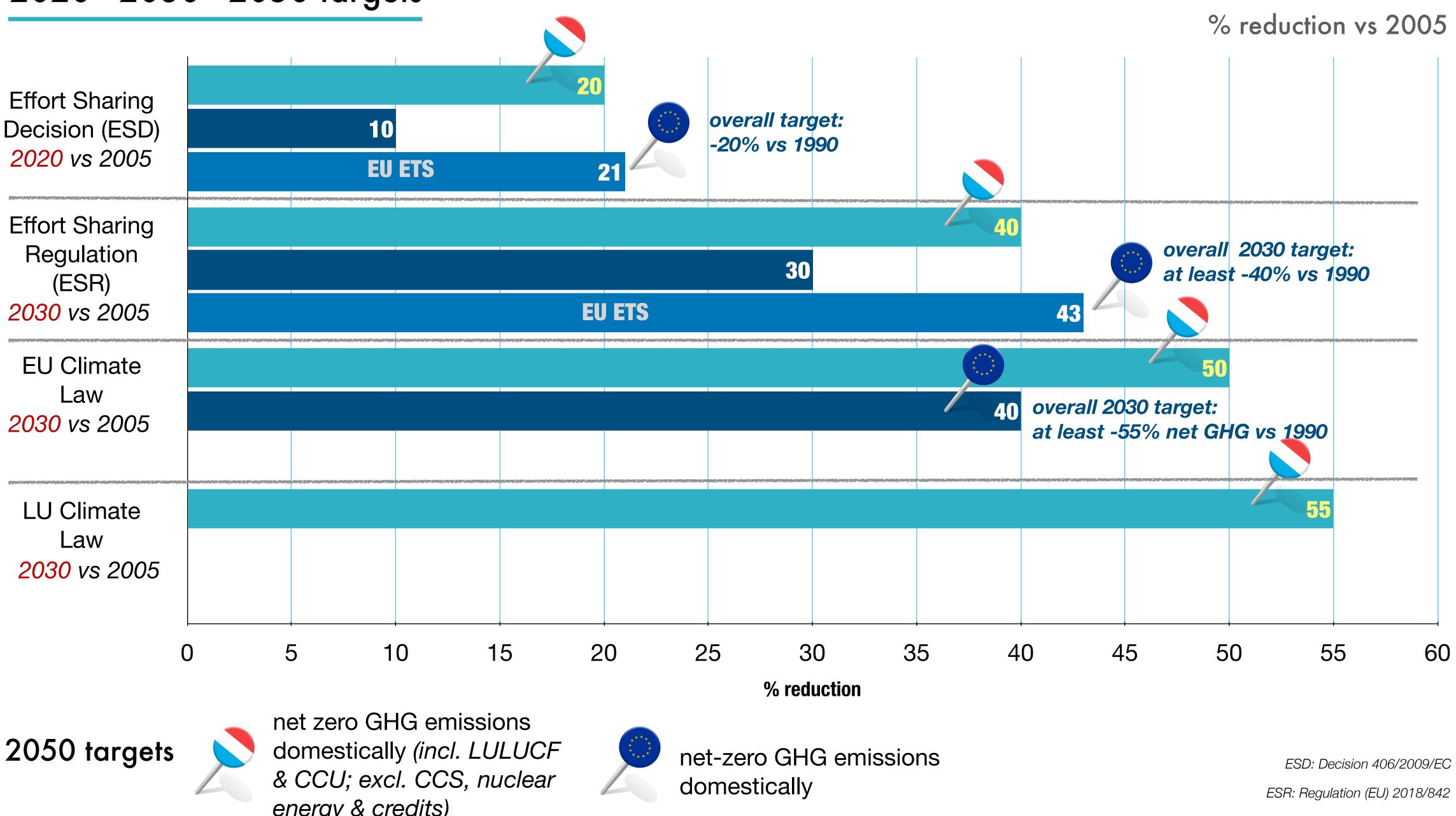
2020 - 2030 - 2050 targets











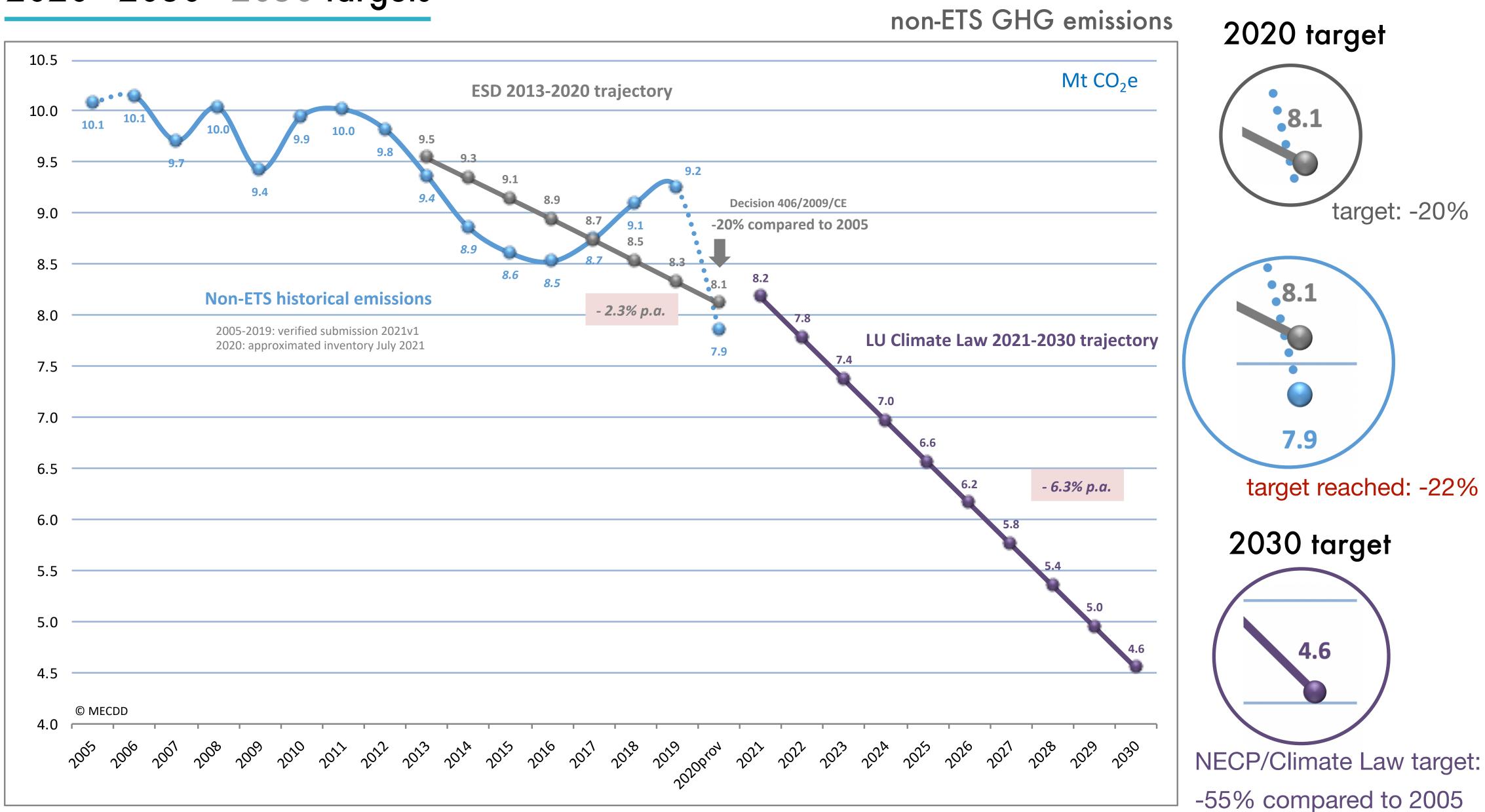


energy & credits)

EU Climate Law: Proposal amending Regulation (EU) 2018/842

2020 - 2030 - 2050 targets

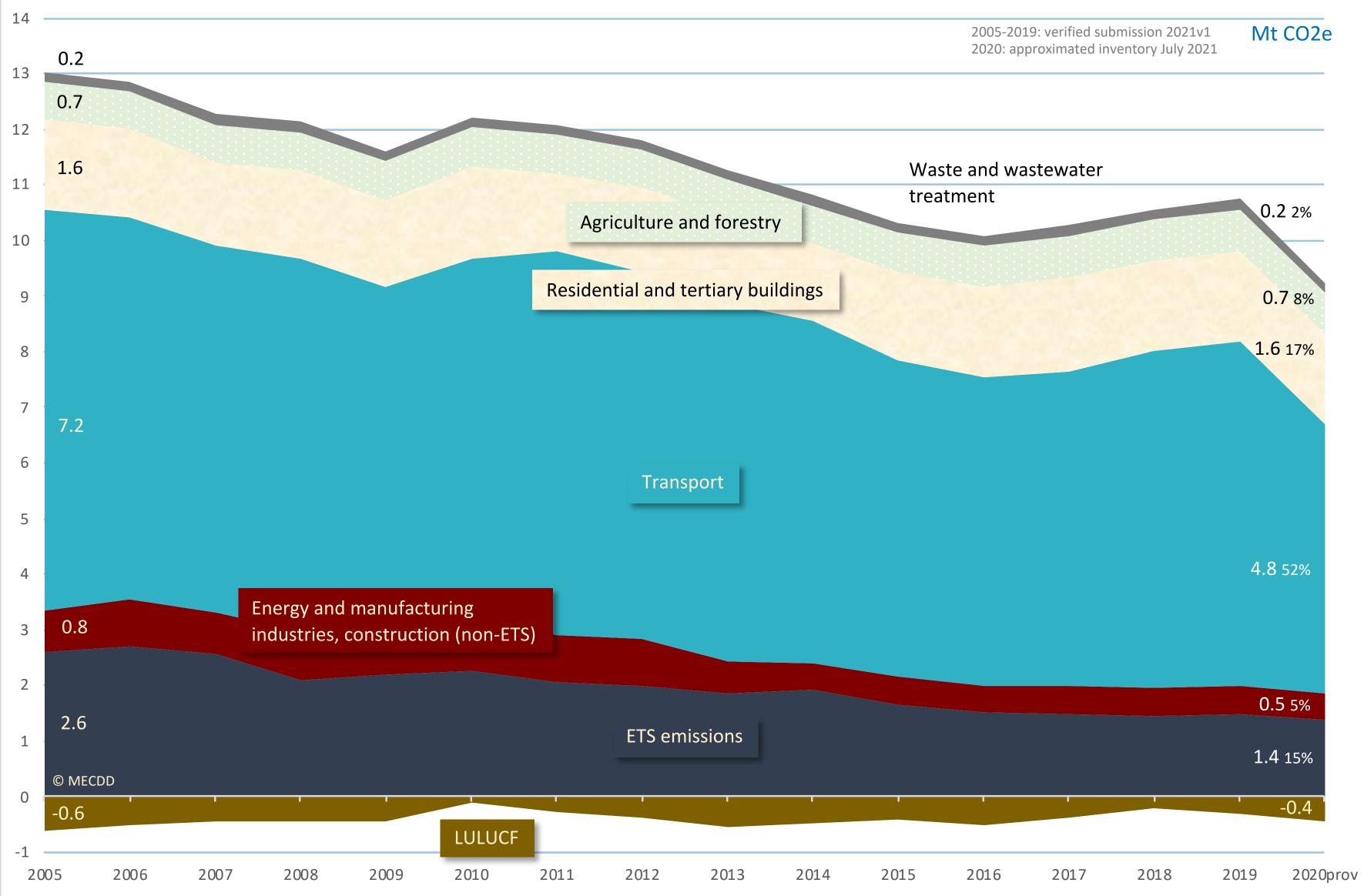
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GHG emissions & removals trends



5 sectors of the Climate Law, ETS & LULUCF

w/o LULUCF 9.24 Mt CO₂e (2020)-27% vs 1990 -29% vs 2005

with LULUCF

8.81 Mt CO₂e (2020)-31% vs 1990 -29% vs 2005









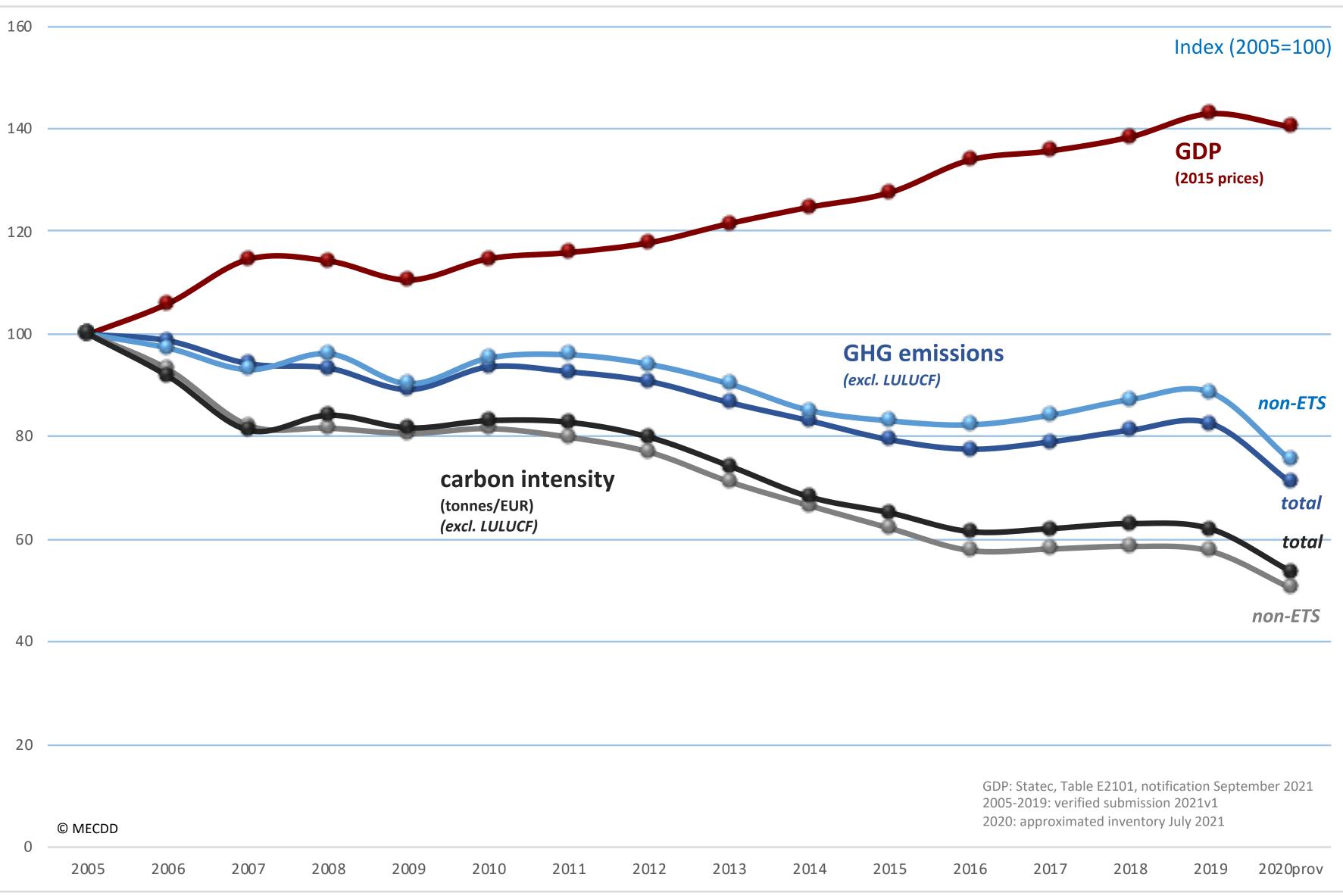








GHG emissions & removals trends



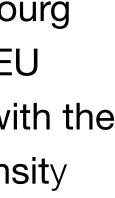
total & non-ETS GHG emissions



In 2019, Luxembourg was the second EU Member States with the lowest GHG intensity source: Eurostat

-49 % (total)

-46% (non-ETS)











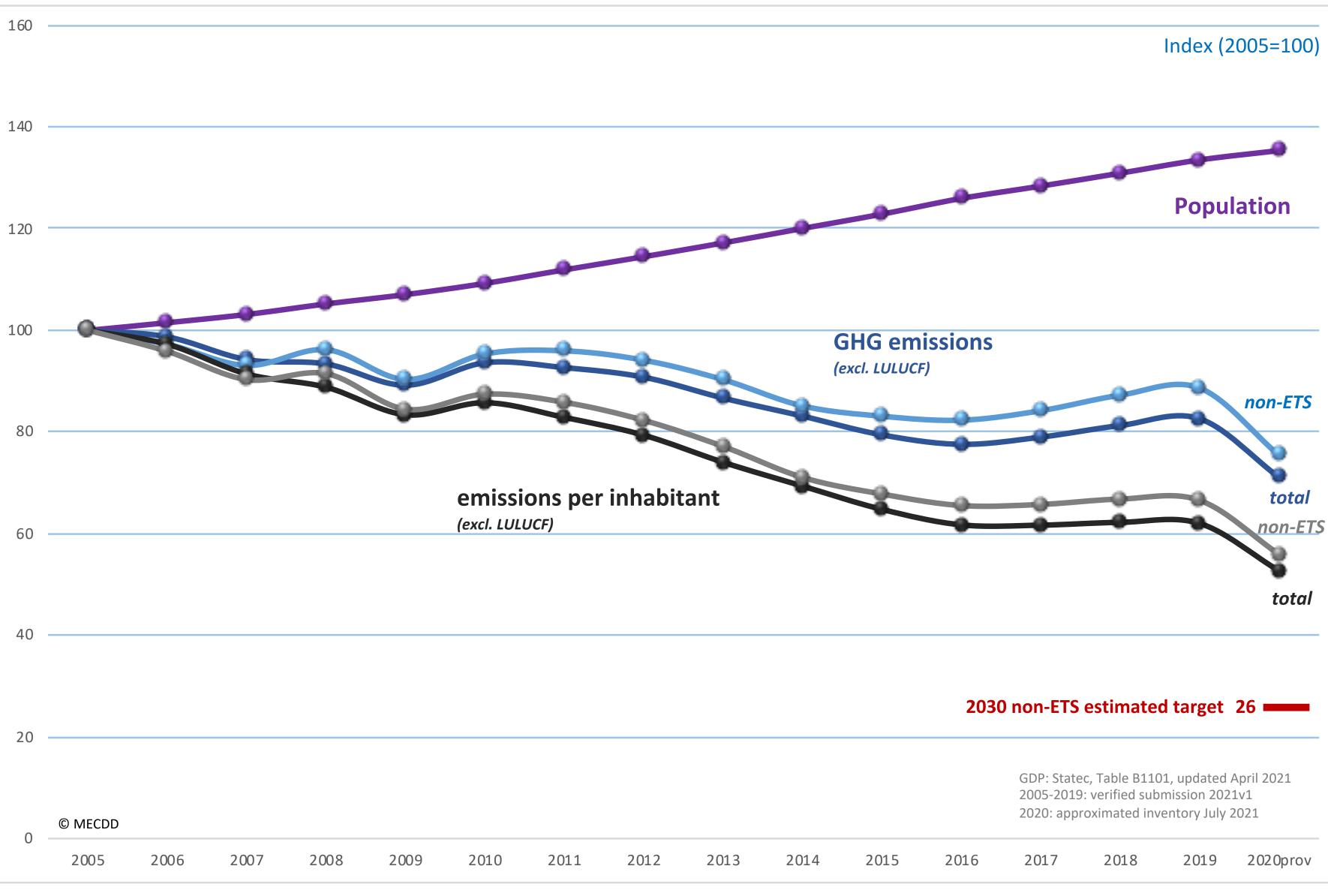








GHG emissions & removals trends

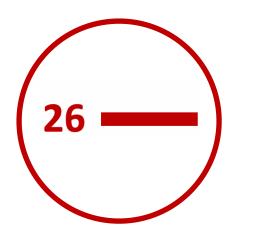


total & non-ETS GHG emissions

total emissions p.p. 27.8 t CO₂e (2005) 14.6 t CO₂e (2020) -47%

non-ETS emissions p.p. 22.3 t CO₂e (2005) 12.4 t CO₂e (2020) -44%

2030 target



NECP/Climate Law estimated target: 5.9 t CO₂e p.p.













National Energy & Climate Plan (NECP)

Road map for energy policy and action for climate 2021-2030

National Long-Term Strategy for Climate Action

Road map "Towards climate neutrality in 2050"

Law of 15 December 2020 on climate (« Climate Law »)

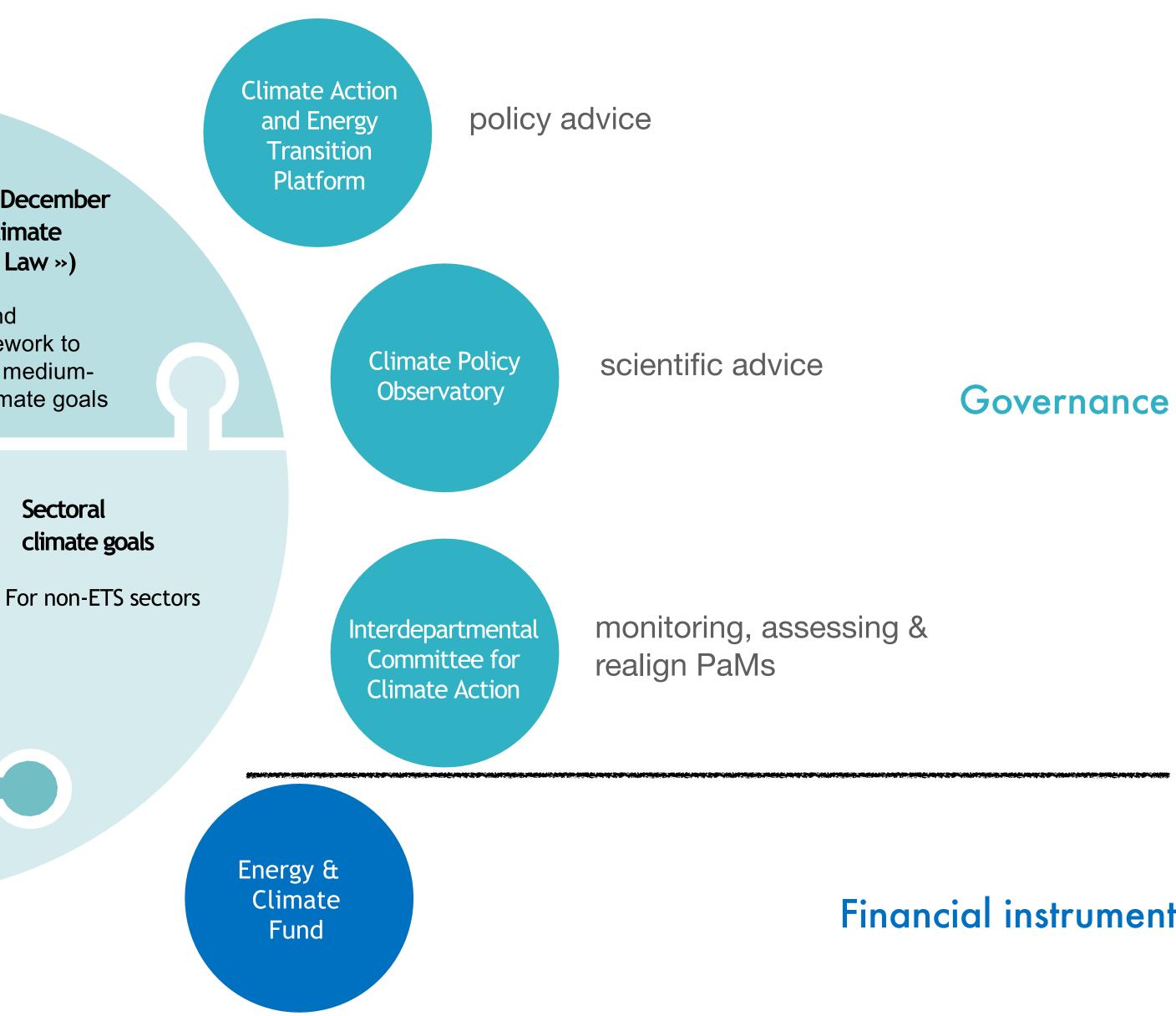
Fixes the legal and institutional framework to achieve national, mediumand long-term climate goals

National climate goals

Sectoral

Reduction of non-ETS GHG emissions by 55% by 2030 compared to the 2005 level

Climate neutrality/ net-zero emissions by 2050 at the latest

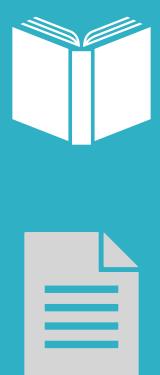


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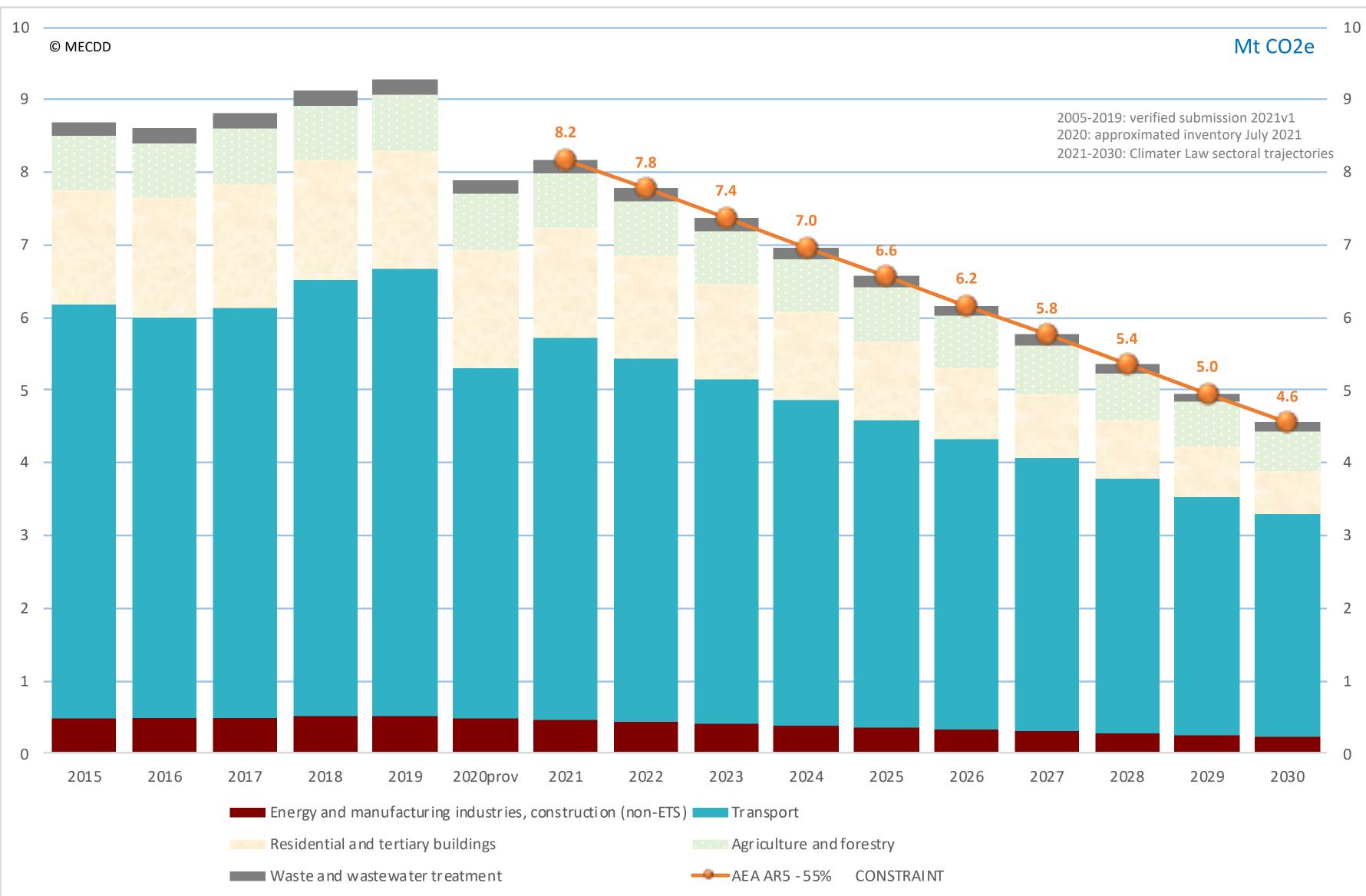








Climate policy & governance



5 sectors of the Climate LawGHG emissions

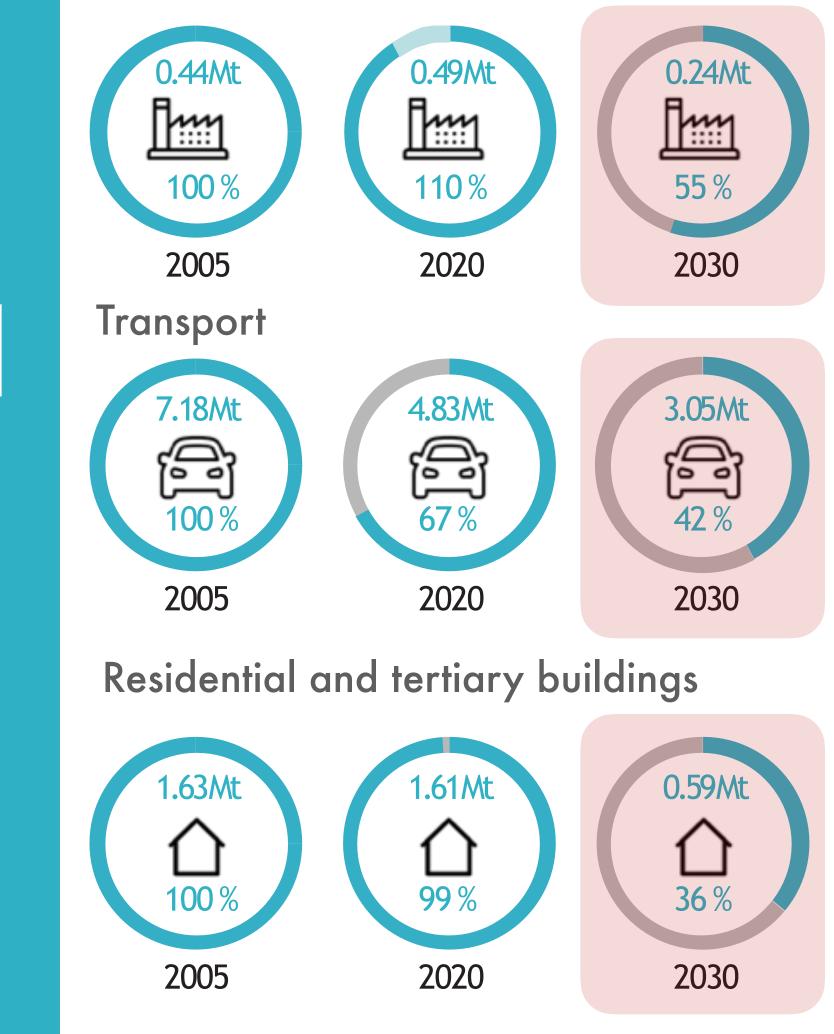




Climate policy & governance

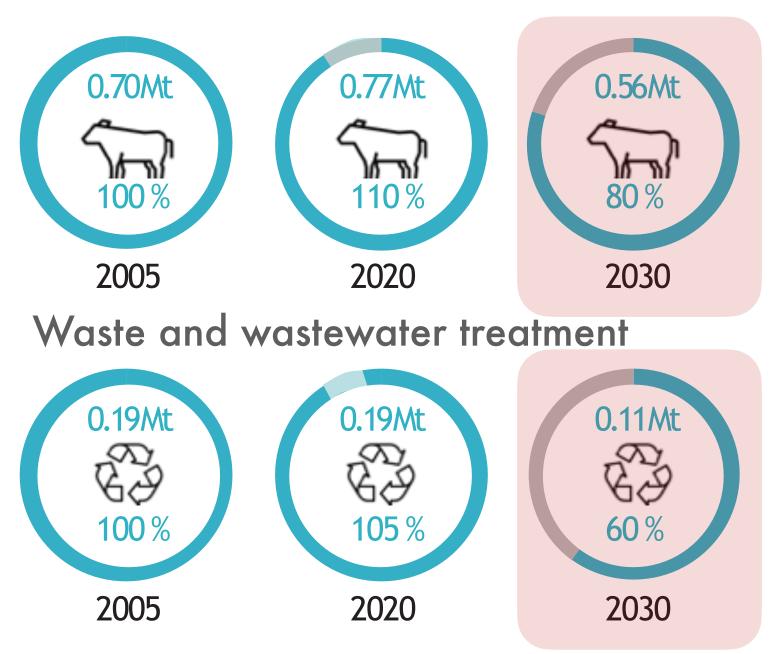
(non-ETS emissions)

Energy and manufacturing industries, construction (non-ETS)



Sectoral climate 2030 goals for the 5 sectors defined in the framework of the Climate Law

Agriculture and forestry





Key policies & measures



Cross-cutting PaMs

- CO₂ pricing and revision of tax & subsidies policies
- Climate Pact 2.0 with municipalities
- Territorial and urban planning
- Climate governance and active participation of all actors in the transition
- Awareness raising, education & training
- Research & innovation

Energy and manufacturing industries, construction PaMs

- EU ETS and EU Regulation on F-gases
- Voluntary agreement between the State and the business federation FEDIL
- Promoting energy efficiency and the use of RES
- Decarbonisation roadmap



Transport PaMs



- (Sustainable Mobility Plan (MoDu 2.0)
- Promoting e-mobility and soft mobility, notably though subsidies & better dedicated infrastructures • Revision of private & company vehicle tax policies
- Decarbonisation roadmaps for freight transport and the logistics sector
- Second generation biofuels

• Free public transport and further development of public transport infrastructures & offer







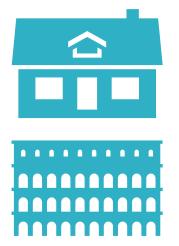








Key policies & measures



Residential and tertiary buildings PaMs

- Near-zero energy standard for new constructions (NZEB)
- Renovation Strategy and energetic renovation of public buildings
- Promoting energy efficiency and the use of RES through subsidies schemes & feed-in tariffs
- Phasing-out of the use of fossil fuels for heating and warm water
- Development of eco-neighbourhoods



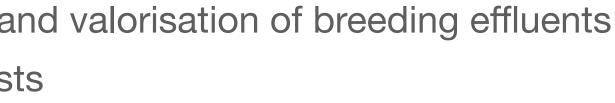
Agriculture and forestry PaMs

- Developing further biological farming
- Reducing the use of nitrogen fertilisation
- Assessment of the livestock composition and valorisation of breeding effluents
- Protection and restoration of soil and forests
- Developing natural carbon sinks



Waste and wastewater treatment PaMs

- Zero-waste Strategy
- Food waste reduction
- Circular Economy Strategy
- Strategy for the valorisation of sewage sludge















- Country size (impacts of single projects, risk of fiscal 'leakage', ...)
- High-number of cross-border commuters implying common policies with neighbouring countries (in general, cross-border cooperation is needed for setting-up various projects)
- Development and implementation of new infrastructure projects is taking time
- High energy dependence due to limited energy production capacities & possibilities
- Energy poverty risk (just transition 'leaving no one behind')
- Municipalities autonomy











Experiences

Positive experience with regard to the IAR process:

- 1. drafting reports require interdepartmental collaboration and fosters links; it helps creating a 'network'
- 2. reviews contribute to improve reporting and reports quality making them more useful for third persons
- 3. MA allows to share experiences and practices, as well as to learn from other Parties

Questions received

Luxembourg received 14 written questions from Canada, Japan, New-Zealand, the United States, the UK :

- QEWRT & scenarios: 2 questions
- governance: 2 questions
- gender & human rights perspective: 1 question
- energy sector: 3 questions
- transport sector: 2 questions
- agriculture & forestry sectors: 4 questions

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Thank you for your kind attention