



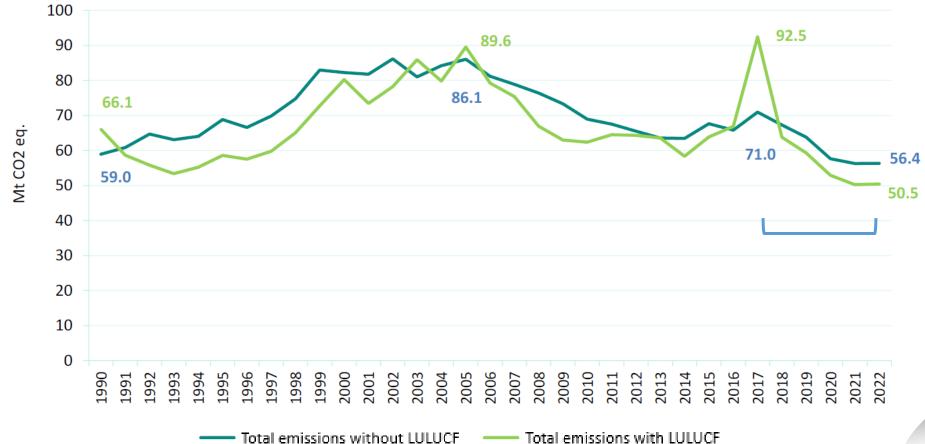
Multilateral Assessment

8th National Communication and 5th Biennial Report of Portugal

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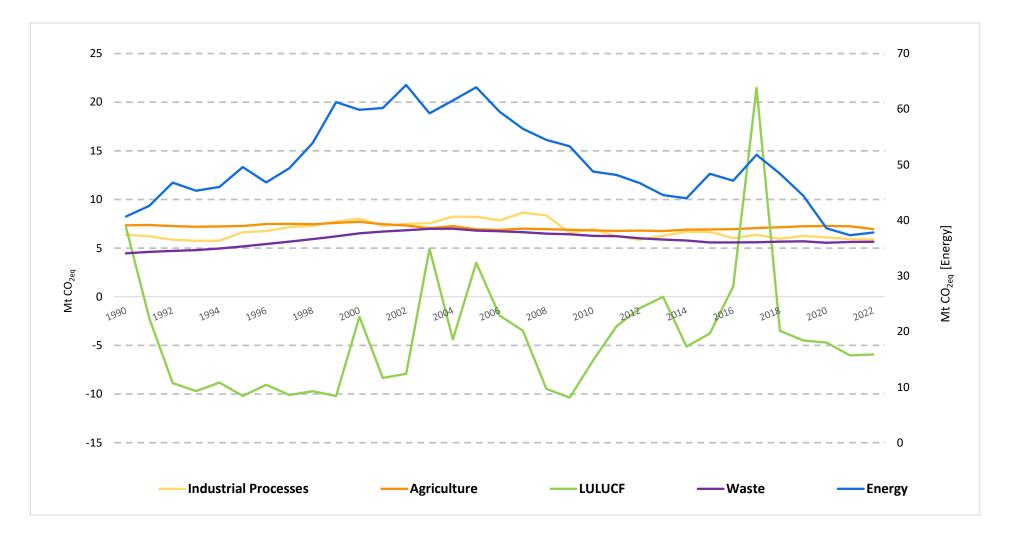
Portugal national GHG emissions



Sectors	2022	Reduction (baseline 1990)	Reduction (baseline 2005)
Total without LULUCF (Mt CO2e)	56.4	4.4%	34.8%
Total with LULUCF (Mt CO2e)	50.4	23.6%	43.7%



Portugal national GHG emissions – by sector





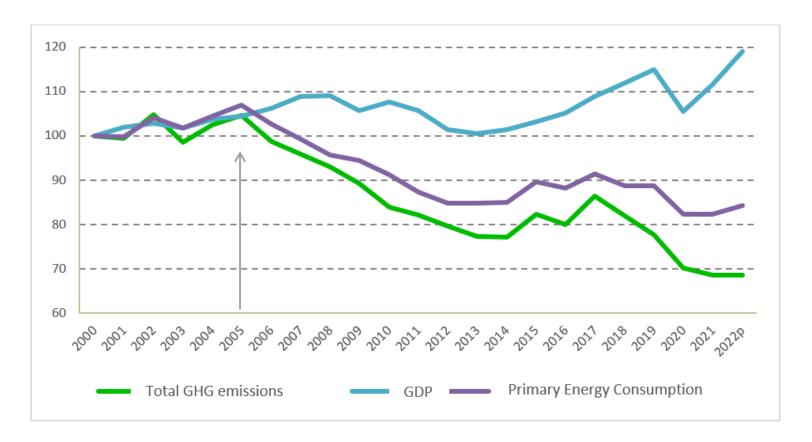








Evolution of GHG emissions/GDP



Several factors contributed to this progress:

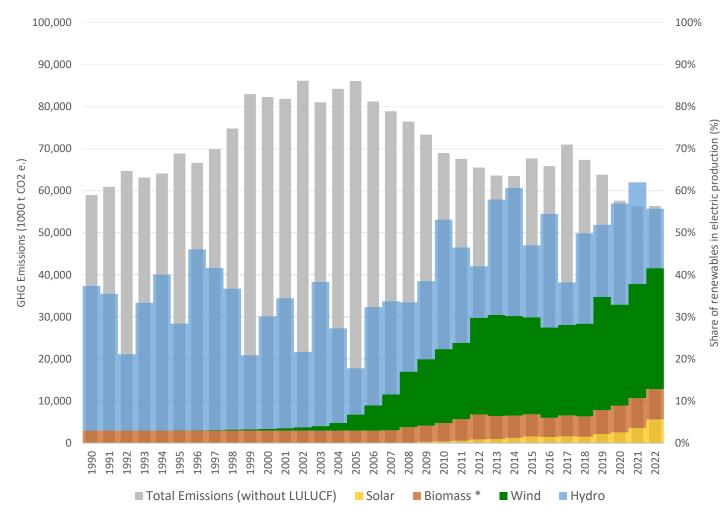
- Significant growth in energy produced from renewable energy sources.
- Implementation of energy efficiency measures.
- Closure of coal-fired power plants.

The carbon intensity of emissions in 2022 decreased approx. 40% compared to 2005 (0.27 kt CO2e/M€)





Total GHG emissions and renewables capacity trend



Biomass * - includes vegetable/forest waste, sulphite liquors, biogas and urban solid waste (renewable part)

Growth of renewable energy sources

Share of renewables in electricity production:

- 1990 37%
- 2005 18%
- 2022 56%

The investment in **wind energy** allowed a lower dependence of renewables on dry hydrological years.

In 2017, despite the low precipitation, the share of electricity production from renewable sources was 39%.





14%







7%

6%











Quantified economy-wide 2020 emission reduction target

Pledge under the Convention for EU and its Member States:

• Unconditional quantified economy wide emission reduction target of 20% by 2020 (vs 1990 levels)

Binding commitment under the Kyoto Protocol

- CP2: joint fulfilment of the commitments of the EU, its Member States and Iceland to reduce average annual emissions during 2013-2020 by 20% vs 1990 overachieved (31%)
 - Emissions Trading Scheme (ETS) 2020 <u>collective EU target</u> = -21% (vs 2005) overachieved (-41%)
 - Effort Sharing Decision (Non-ETS) 2020 <u>collective EU target</u> = -10% (vs 2005) overachieved (-16,3%)
 - Non-ETS Portugal's 2020 target = +1% (vs 2005) overachieved (-21%)
 - LULUCF using KP CP2 rules

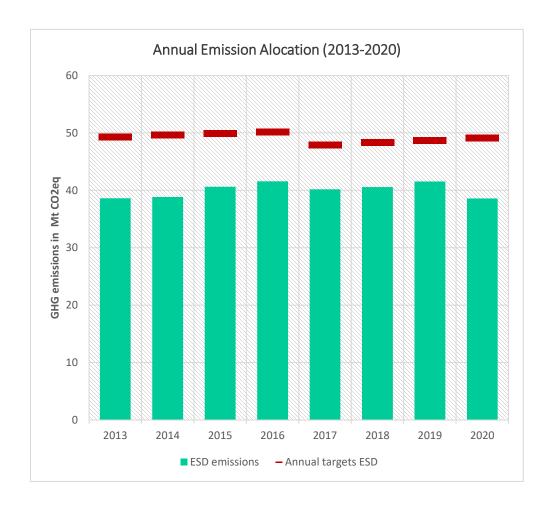








Effort Sharing 2020 emission reduction target



Effort Sharing Decision (ESD)

- Establishes annual binding GHG emission targets for Member States for the period 2013-2020.
- These targets concern emissions from sectors not included in the EU Emissions Trading System (ETS), such as <u>transport</u>, <u>buildings</u>, <u>agriculture</u> and <u>waste</u>.
- For the period 2013-2020, Portugal met all defined annual targets, achieving a 21% reduction in 2020 compared to emissions from the ESD sectors in 2005.











Quantified economy-wide 2030 emission reduction target

NDC communicated under the PA – The EU and its MS are committed to binding target of at least 40% domestic GHG reduction by 2030 (vs 1990 levels) – **reviewed -55%**

- Emissions Trading Scheme (ETS)
 - ETS 2030 <u>collective EU target</u> = -43% (vs 2005) <u>reviewed -62%; New ETS 2* 2030 <u>collective EU target</u> = -42% (vs 2005)</u>
- Effort Sharing Regulation (Non-ETS sectors)
 - Non-ETS 2030 <u>collective EU target</u> 2030 target = -30% (vs 2005) **reviewed -40%**
 - Non-ETS Portugal's 2030 target = -17% (vs 2005) reviewed -28,7%
- LULUCF
 - Net GHG removals 2030 collective EU target = at least 310 million tCO2eq

^{*} ETS 2 scope include fuel combustion in road transport and buildings and additional sectors such as small industry











Portugal policy framework

Climate Action Commission (CAC)

National Climate Law

Air

Planning Instruments

National Adaptation Strategy (ENAAC2020)*

Action Programme for Adaptation to Climate Change(P-3AC)

* ENAAC2020 extended until 31.12.2025

Climate Neutrality Roadmap 2050 (RNC2050)

National Climate and Energy Plan (PNEC2030)

Emissions Trading Scheme (EU-ETS) Voluntary Carbon Market (VCM) Air National Strategy (ENAR 2020)

Monitoring and reporting

Report System in the context of ENAAC

National System of Policies and Measures and Projections (SPeM)

National System for the Inventory of Emissions by Sources and Removal by Sinks of Atmospheric Pollutants (SNIERPA)









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Portugal policy framework update

Review of the main climate and energy national strategys is ongoing

- **Short term** National Energy and Climate Plan 2030 (NECP 2030)
- **Long term** Roadmap for Carbon Neutrality 2050 (RNC2050)



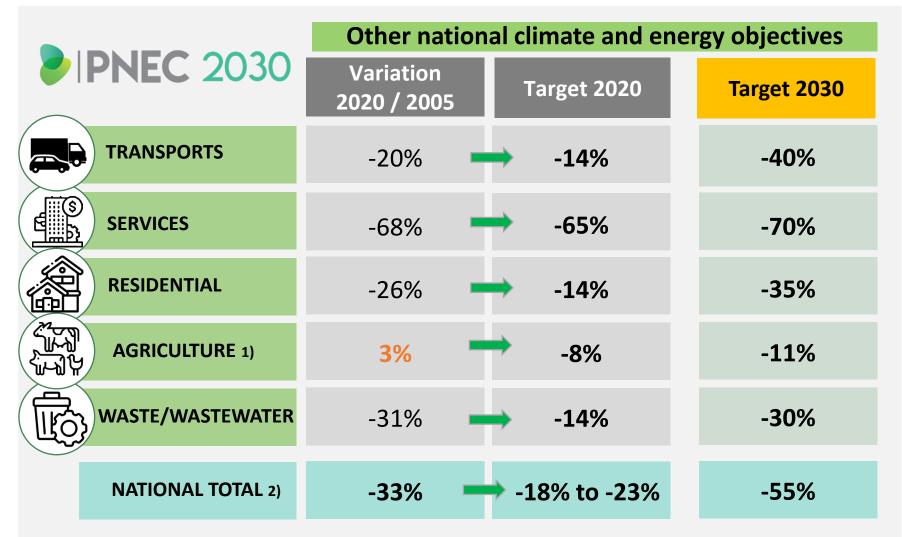


- Obligation of EU Regulation (Governance of the Energy Union and Climate Action)
- National Climate Law
- New FIT for 55% and RepowerEU targets
- New pandemic context, energy crisis and Recovery and Resilience Plan (RRP)
- Accelerated growth of H2 and other technologies (BECCs, CCUS, etc.)
- Alignment between RNC and PNEC review (parallel processes)
- The anticipation of the climate neutrality target for 2045





Portugal policy framework update - by sector



Includes emissions from CRF3 as well as combustion in agriculture, forestry, and fisheries (1A4c)



⁽²⁾ Total: excludes LULUCF

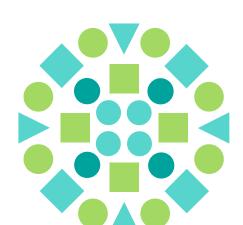
Portugal policy framework update - Main messages

- **Portugal's 2020 targets under the EU framework were surpassed**, aligning with EU commitments, as a contribution to achieving the objectives of the Paris Agreement.
- Portugal remains committed to **supporting other Parties**, particularly the most vulnerable, in their climate transition by exploring **innovative solutions**.
- Consistent emissions reduction path aligns with the short and long term objectives
- A **robust climate policy framework** reflects Portugal's proactive stance, being one of the first countries globally to commit to climate neutrality by 2050.
- Updated policy framework enhances **cross-sector action and ambitious but achievable 2030 goals**, underscoring the urgency of accelerating economic decarbonization this decade.
- Long-term objective moved forward to 2045, reflecting the commitment to decarbonization.
- **Strong commitment to expanding renewable energy** through increased electrification and a shift towards renewable fuels, primarily hydrogen and biomethane.
- Portugal was the **fourth EU country to phase out coal for electricity production in 2021**, ahead of its initial commitment.
- Aiming to double renewable electricity capacity by 2030, and phase out natural gas by 2040.
- Ensure a green and just transition, promoting social cohesion and quality employment nationwide.













THANK YOU

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