

Kick-starting the journey towards a climate-neutral Europe by 2050



Country fact sheet: Romania

EU Climate Action
Progress Report 2020

1. Total greenhouse gas emissions

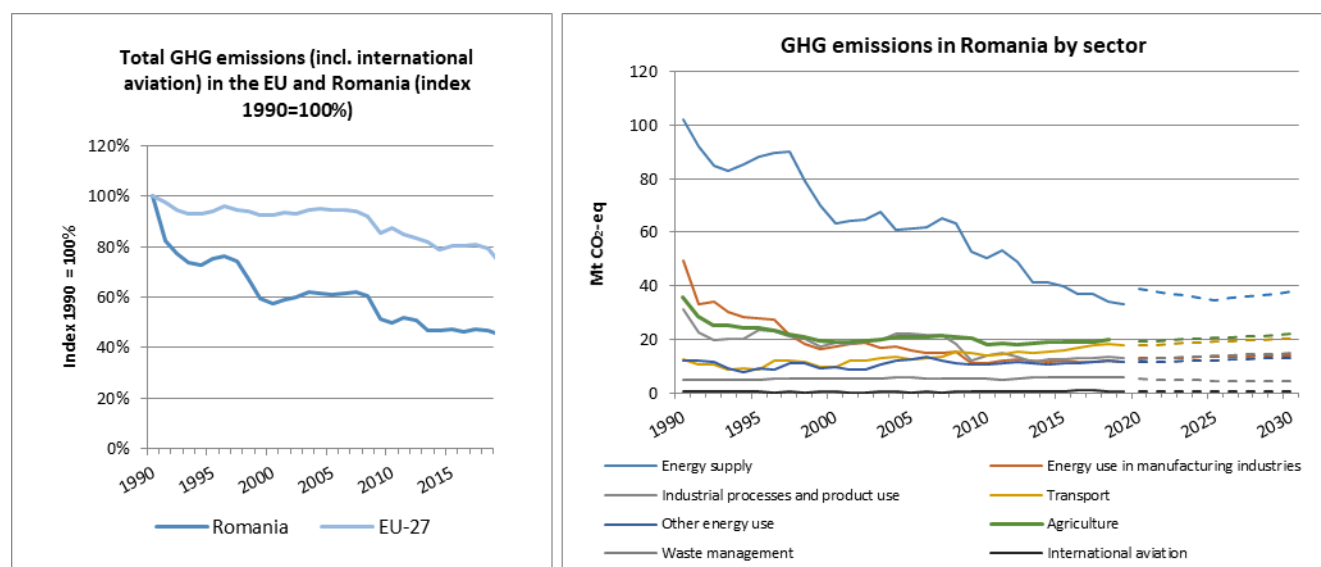


Figure 1: Left hand side: Total greenhouse gas emissions (incl. international aviation) 1990-2019 (index 1990 = 100 %). Right hand side: Greenhouse gas emissions by sector¹ – historical emissions 1990-2018, proxy 2019, projections WEM 2020-2030 (Mt CO₂-eq).

¹ The sectors in the figure correspond to the following IPCC sectors: Energy supply: 1A1, 1B and 1C. Energy use in manufacturing industries: 1A2. Industrial processes and product use: 2. Transport: 1A3. Other energy use: 1A4, 1A5 and 6. Agriculture: 3. Waste: 5. International aviation: memo item.

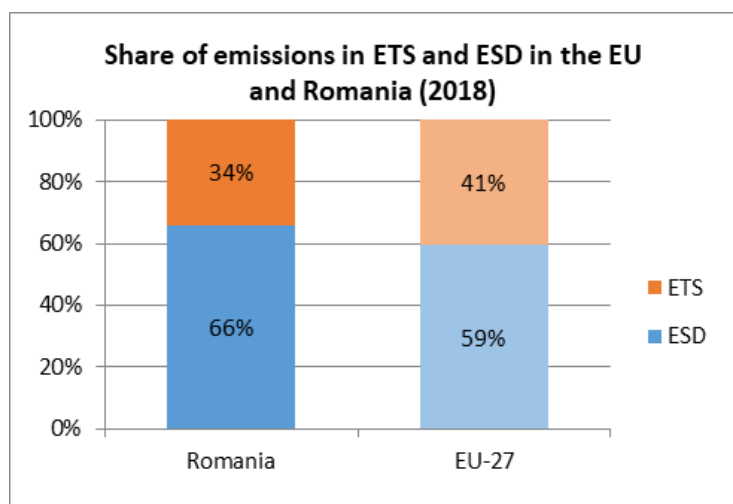


Figure 2: Share of emissions covered by the ETS and the ESD (2018).²

2. ETS emissions

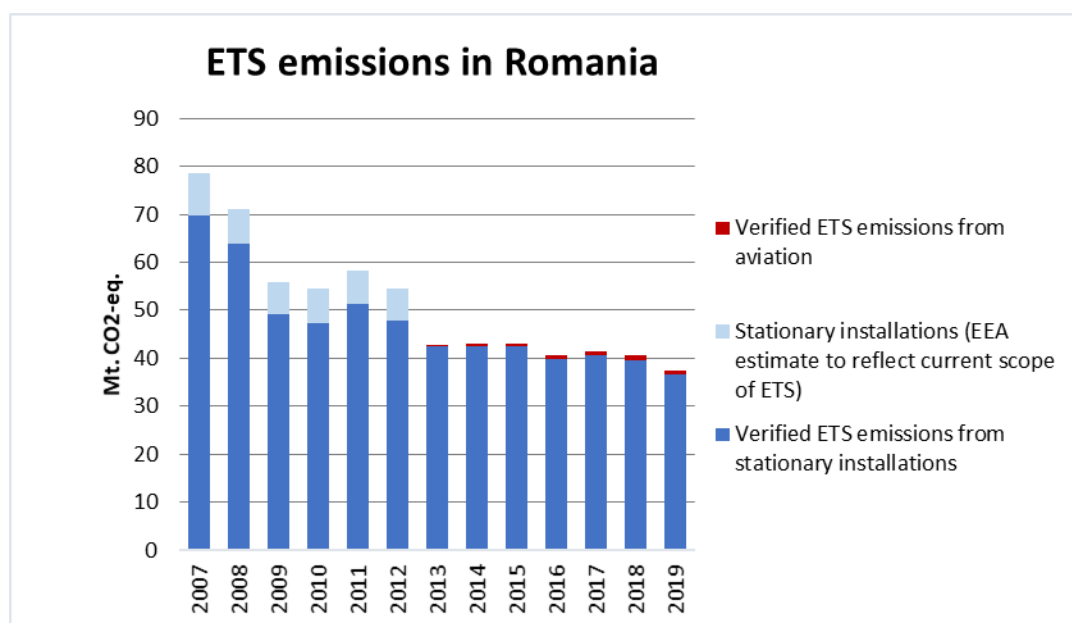


Figure 3: ETS emissions 2007-2019 (Mt CO₂-eq).³

² Excluding international aviation, CO₂ from domestic aviation and NF₃.

³ The scope of ETS was extended from 2013. To reflect the current scope of ETS, estimates made by EEA are included in the figures from 2005 to 2012. The estimates cover only emissions from stationary installations.

3. Emissions in Effort Sharing sectors

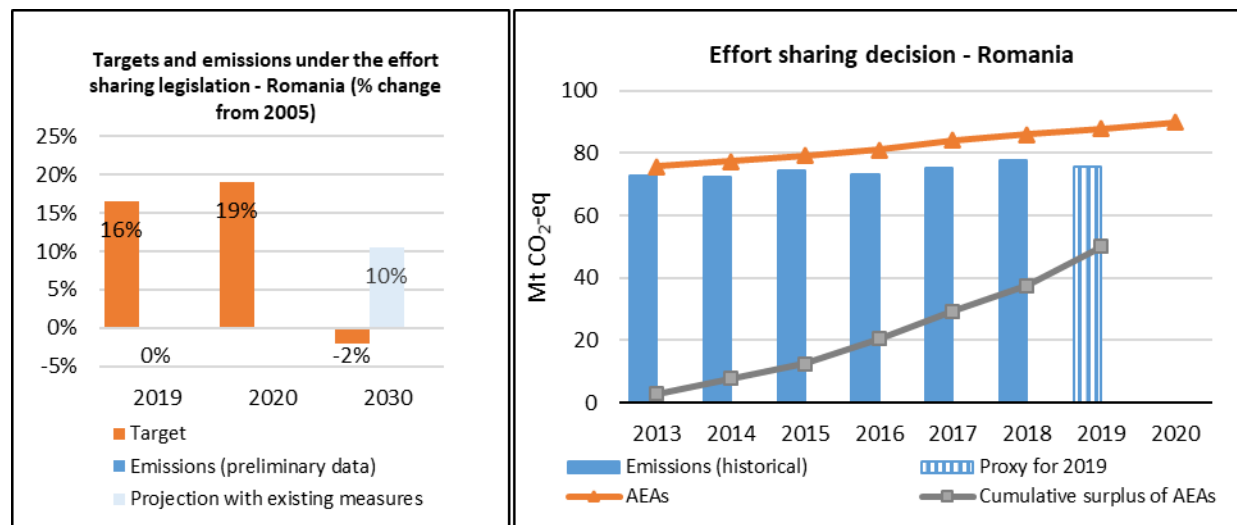


Figure 4: Left hand side: Emissions and targets under the Effort Sharing Decision/ Effort Sharing Regulation 2019, 2020 and 2030 as percentage change from 2005. Right hand side: Emissions, annual emission allocations (AEAs) and accumulated surplus/ deficit of AEAs under the Effort Sharing Decision 2013-2019 (Mt CO₂-eq).

4. Land use, land use change and forestry

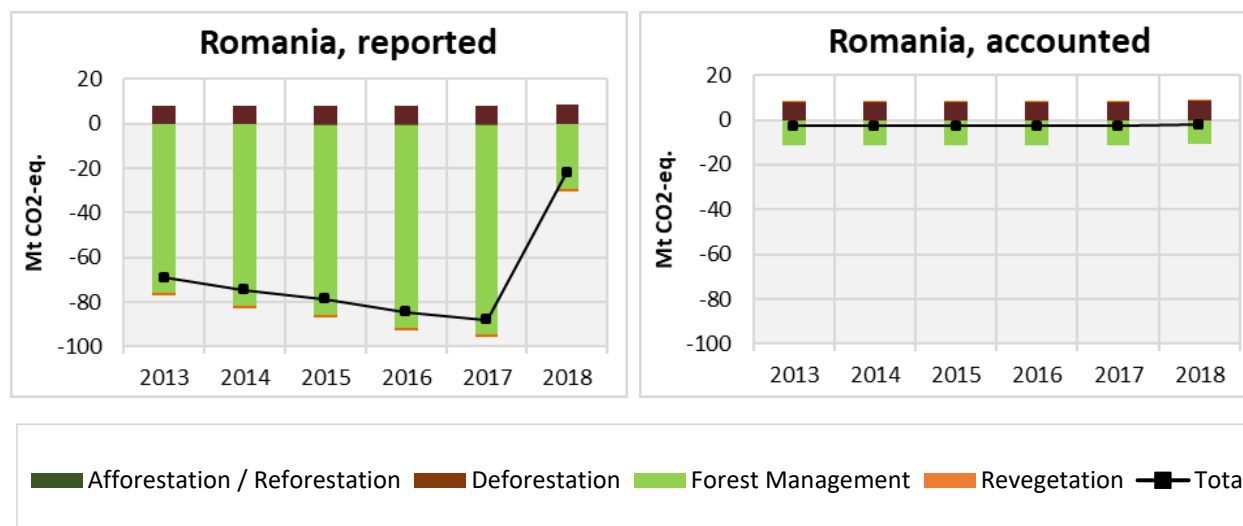


Figure 5: Reported and accounted emissions and removals from LULUCF (Mt CO₂-eq.)⁴

Reported quantities under the Kyoto Protocol for Romania show net removals of, on average, -69.5 Mt CO₂-eq for the period 2013 to 2018. In this regard, Romania contributes with 17.5% to the annual average sink of -396.7 Mt CO₂-eq of the EU-27. Accounting for the same period depicts net credits of, on average, -2.6 Mt CO₂-eq, which corresponds to 2.3% of the EU-27 accounted sink of -114.1 Mt CO₂-eq. Reported net removals show an increasing trend from 2013 to 2017 and a remarkable decrease for 2018. Accounted net credits show no trend between 2013 and 2017 and a small decrease for 2018. Romania elected to report and account for Revegetation as the only EU Member States.

The dominating reported activity is Forest Management with removals. Emissions by Deforestation are sizable; removals by Revegetation are small and removals by Afforestation/Reforestation negligible in the emission budget of the LULUCF sector. Removals by Forest Management increase by 18.5 Mt CO₂-eq from 2013 to 2017, but decrease by 65.1 Mt CO₂-eq for 2018⁵. The extraordinary decrease of removals by Forest Management in 2018 significantly impacted the EU LULUCF trend. .

Credits by Forest Management are the highest accounting quantities and closely followed by debits by Deforestation. In this preliminary simulated accounting exercise, potential credits by Forest Management of, on average, -60.1 Mt CO₂-eq per year are capped to -10.7 Mt CO₂-eq per year. Romania is one of five EU Member States that exceed the cap of 3.5% from emissions of the base year (1989). Romania is also the EU Member State with by far the highest impact by the cap for Forest Management reducing credits by 49.4 Mt CO₂-eq per year. The Forest Management cap for accounting removes the sudden drop as shown for reported quantities and impacted the EU LULUCF trend. Debits by

⁴ The differences between reported and accounted emissions from LULUCF under the Kyoto Protocol are described in the 'explanatory note on LULUCF – accounted and reported quantities under the Kyoto Protocol'.

⁵ The reported drop in removals by Forest Management in 2018 relate to an inconsistency in reporting. Romania is requested to ensure time series consistency in future GHG reporting.

Revegetation and credits by Afforestation/Reforestation are negligible. Credits by Afforestation/Reforestation show a small decrease for 2018.

Data sources

Figure 1: Annual European Union greenhouse gas inventory 1990–2018 (EEA greenhouse gas data viewer: <https://www.eea.europa.eu/data-and-maps/data/data-viewers/greenhouse-gases-viewer>). *Approximated EU greenhouse gas inventory 2019* (European Environment Agency). Member States national projections, reviewed by the European Environment Agency.

Figure 2: Verified ETS emissions abstracted from European Union Transaction Log 30.06.2020 (EEA ETS data viewer: <https://www.eea.europa.eu/data-and-maps/dashboards/emissions-trading-viewer-1>). ESD data from European Commission: *Commission Implementing Decision (EU) on greenhouse gas emissions for each Member State for the year 2018 covered by Decision No 406/2009/EC of the European Parliament and of the Council* (forthcoming).

Figure 3: abstract from European Union Transaction Log 30.06.2020 (EEA ETS data viewer: <https://www.eea.europa.eu/data-and-maps/dashboards/emissions-trading-viewer-1>).

Figure 4: European Commission: *Commission Implementing Decision (EU) on greenhouse gas emissions for each Member State for the year 2018 covered by Decision No 406/2009/EC of the European Parliament and of the Council* (forthcoming). *Approximated EU greenhouse gas inventory 2019* (European Environment Agency). Member States national projections, reviewed by the European Environment Agency.

Figure 5: European Commission based on data accounted and reported by Member States under the Kyoto Protocol.