

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



Country fact sheet: Slovakia

EU Climate Action
Progress Report 2020

1. Total greenhouse gas emissions

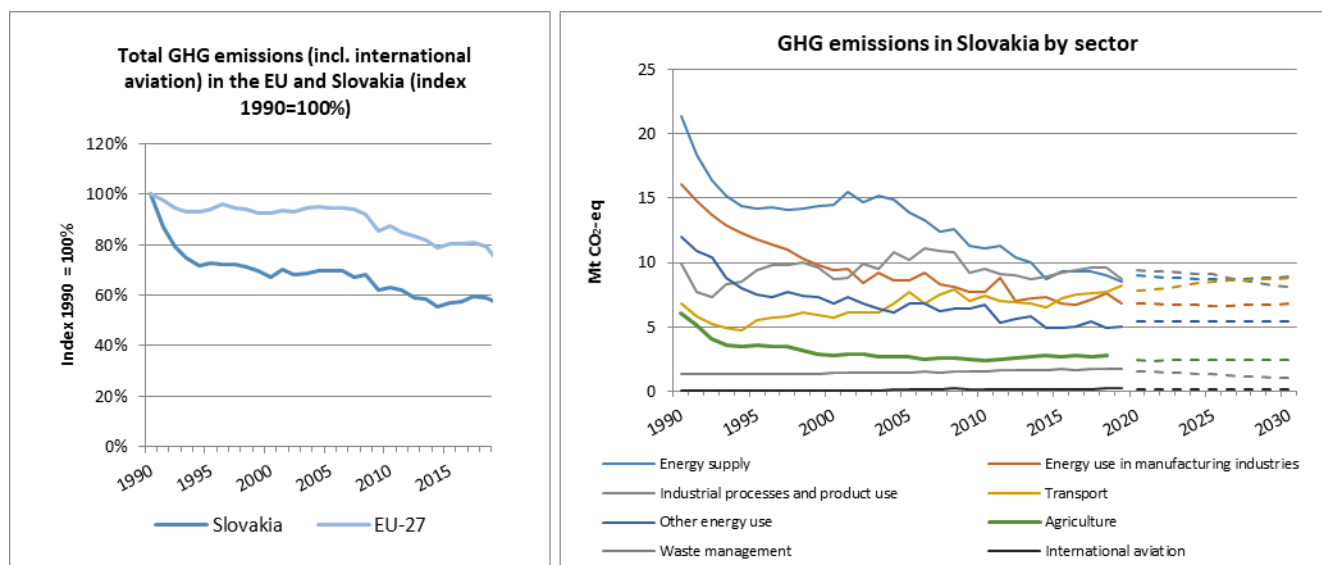


Figure 1: Left hand side: Total greenhouse gas emissions (incl. international aviation) 1990-2019 (index 1990 = 100 %). Right hand side: Greenhouse gas emissions by sector¹ – historical emissions 1990-2018, proxy 2019, projections WEM 2020-2030 (Mt CO₂-eq).

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.

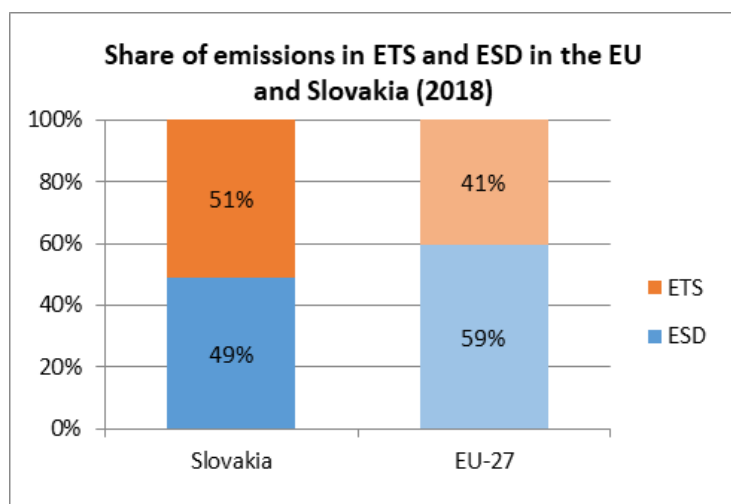


Figure 2: Share of emissions covered by the ETS and the ESD (2018).²

2. ETS emissions

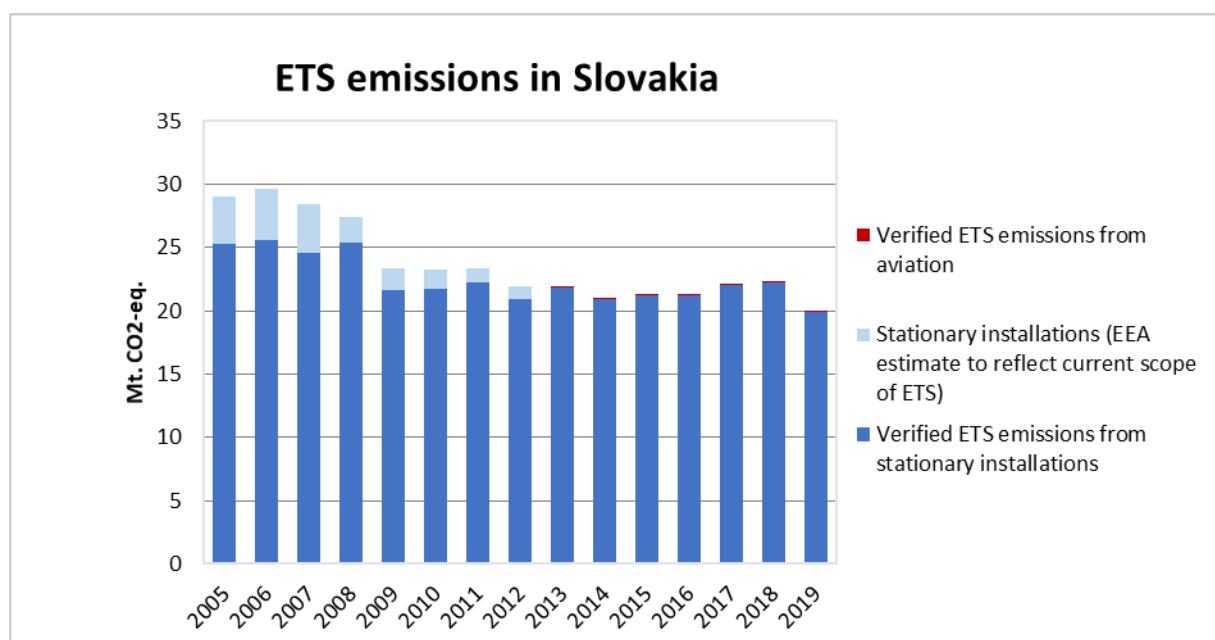


Figure 3: ETS emissions 2007-2019 (Mt CO₂-eq).³

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

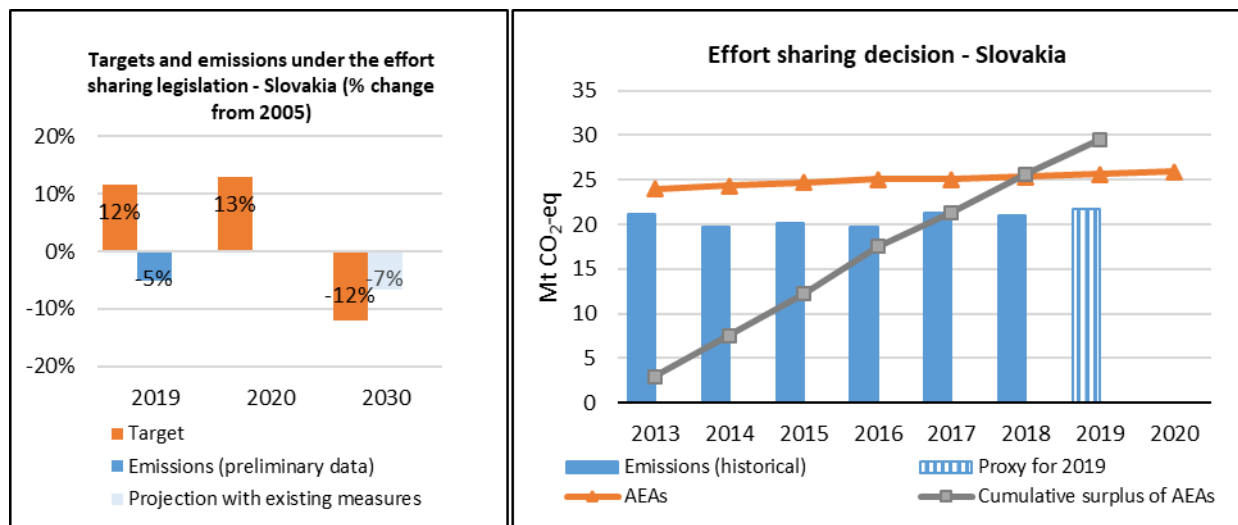


Figure 4: Left hand side: Emissions and targets under the Effort Sharing Decision/ Effort Sharing Regulation 2019, 2020 and 2030 as percentage change from 2005. Right hand side: Emissions, annual emission allocations (AEAs) and accumulated surplus/ deficit of AEAs under the Effort Sharing Decision 2013-2019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

4. Land use, land use change and forestry

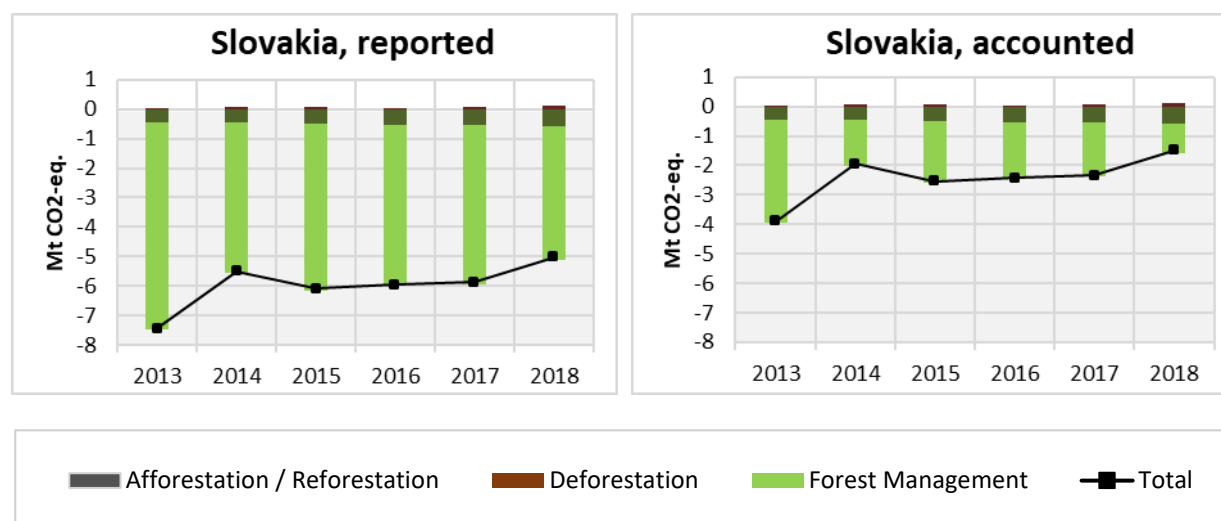


Figure 5: Reported and accounted emissions and removals from LULUCF (Mt CO₂-eq.)⁴

Reported quantities under the Kyoto Protocol for Slovakia show net removals of, on average, -6.0 Mt CO₂-eq for the period 2013 to 2018. In this regard, Slovakia contributes with 1.5% 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, -2.4 Mt CO₂-eq, which corresponds to 2.1% of the EU-27 accounted sink of -114.1 Mt CO₂-eq. There is a notable dynamic and a generally decreasing trend of reported net removals and accounted net credits with marked decreases for 2014 and 2018.

The dominating reported activity is Forest Management with removals. Removals by Afforestation/Reforestation are small, and emissions by Deforestation play a negligible role in the emission budget of the LULUCF sector. Removals by Forest Management are variable and generally decreasing with particular declines for 2014 and 2018. The reason for this development is a combination of aging forests removing less CO₂ from the atmosphere, and natural disturbances. The unbalanced age structure of Slovak forests contributes to cyclical changes in the volume of growing stock and felling possibilities. The urgency for regenerating the age structure increased the felling volumes during the last 20 years even though, except for 2014, current amounts were below planned levels.

Credits by Forest Management are the dominating accounting quantity over the six-year period. Credits by Afforestation/Reforestation are sizable and debits by Deforestation negligible. Credits by Forest Management show a notable dynamic and an overall decreasing trend. Credits by Afforestation/Reforestation slightly increase over the six-year period.

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'.

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.