Country fact sheet: Bulgaria

1. Total greenhouse gas emissions

Figure 1: Left hand side: Total greenhouse gas emissions (incl. international aviation) 1990-2020 (index 1990 = 100%). Right hand side: Greenhouse gas emissions by sector\(^1\) – historical emissions 1990-2019, proxy 2020, projections WEM 2021-2030 (Mt CO\(_2\)-eq).

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Figure 2: Share of emissions covered by the ETS and the ESD (2019).

2 Excluding international aviation and NF₃.

2. ETS emissions

Figure 3: ETS emissions 2005-2020 (Mt CO₂-eq).

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

![Graphs showing emissions and targets under the Effort Sharing Decision and Regulation, and annual emission allocations and accumulated surplus/deficit of AEAs under the Effort Sharing Decision 2013-2020.]

Figure 4: Left hand side: Emissions and targets under the Effort Sharing Decision/ Effort Sharing Regulation 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 2013-2020 (Mt CO$_2$-eq).
4. Land use, land use change and forestry

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

Reported quantities under the Kyoto Protocol for Bulgaria show net removals of, on average, -10.2 Mt CO2-eq for the period 2013 to 2019. In this regard, Bulgaria contributes with 2.9% to the annual average sink of -344.9 Mt CO2-eq of the EU-27. Accounting for the same period shows net credits of, on average, -2.2 Mt CO2-eq, which makes up 1.9% of the EU-27 accounted sink of -115.0 Mt CO2-eq. Reported net removals show minor variations with a slightly increasing trend overall; the same pattern is more accentuated for accounted net credits.

The dominating reported activity is Forest Management with removals. Removals by Afforestation/Reforestation are sizable, but emissions by Deforestation can be neglected in the overall emission budget of the LULUCF sector. Removals by Afforestation/Reforestation show an increasing trend over the seven-year period.

Credits from Afforestation/Reforestation dominate the accounts. Debits Deforestation and debits or credits by Forest Management are small. Bulgaria is one of 13 EU Member States with debits by Forest Management for at least one year. Credits by Afforestation/Reforestation show a clear increasing trend over the seven-year period.

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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 3: extract from European Union Transaction Log 01.07.2021 (EEA ETS data viewer: https://www.eea.europa.eu/data-and-maps/dashboards/emissions-trading-viewer-1).

Figure 4: European Commission: Commission Implementing Decisions on greenhouse gas emissions for each Member State for the years 2013-2019 under the Effort Sharing Decision (Implementation of the Effort Sharing Decision [europa.eu]). Approximated EU greenhouse gas inventory 2020 (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.