1. Total greenhouse gas emissions


2. ETS emissions

Figure 3: ETS emissions 2007-2019 (Mt CO$_2$-eq).$^3$

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$^2$ Excluding international aviation, CO$_2$ from domestic aviation and NF.

$^3$ 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.)

Reported quantities under the Kyoto Protocol for Finland show net removals of, on average, -36.9 Mt CO₂-eq for the period 2013 to 2018. In this regard, Finland contributes with 9.3% to the annual average sink of -396.7 Mt CO₂-eq of the EU-27. Accounting for the same period depicts net debits of, on average, 0.6 Mt CO₂-eq, which represents -0.5% of the EU-27 accounted sink of -114.1 Mt CO₂-eq. Reported net removals show a decreasing trend, which is opposite to the decreasing trend for accounted net debits. Finland is one of seven EU Member States with average net debits and one of ten EU Member States that show net debits for at least one year in this preliminary accounting exercise.

The dominating reported activity is Forest Management with removals. Emissions by Deforestation are comparatively small, and removals by Afforestation/Reforestation can be neglected in the emission budget of the LULUCF sector. Removals by Forest Management decrease markedly by 19.0 Mt CO₂-eq between 2013 and 2018.

Debits by Deforestation are the dominating accounting quantity over the six-year period. In this preliminary simulated accounting exercise potential credits by Forest Management of, on average, -8.6 Mt CO₂-eq per year are capped to -2.5 Mt CO₂-eq per year. Finland is one of five EU Member States that exceed the cap of 3.5% from emissions of the base year (1990). Credits from Afforestation/Reforestation are small. Debits by Deforestation show a clear decreasing trend.

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