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 sector\textsuperscript{1} – historical emissions 1990-2018, proxy 2019, projections WEM 2020-2030 (Mt CO\textsubscript{2}-eq).

\textsuperscript{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.
2. ETS emissions

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

![Graph showing 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).]

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 CO$_2$-eq.)

Reported quantities under the Kyoto Protocol for Sweden show net removals of, on average, -47.2 Mt CO$_2$-eq for the period 2013 to 2018. In this regard, Sweden contributes with 11.9% to the annual average sink of -396.7 Mt CO$_2$-eq of the EU-27. Accounting for the same period depicts net credits of, on average, -0.9 Mt CO$_2$-eq, which corresponds to 0.8% of the EU-27 accounted sink of -114.1 Mt CO$_2$-eq. Reported net removals and accounted net credits show small dynamics with no trend.

The dominating reported activity is Forest Management with removals. Emissions by Deforestation are small and removals by Afforestation/Reforestation play a negligible role in the emission budget of the LULUCF sector. Removals by Forest Management and emissions by Deforestation show small variations but no clear trend over the six-year period.

Debits by Deforestation are the highest accounting quantity followed by credits by Forest Management. In this preliminary simulated accounting exercise, potential credits by Forest Management of, on average, -15.4 Mt CO$_2$-eq per year are capped to -2.5 Mt CO$_2$-eq per year. Sweden is one of five EU Member States that exceed the cap of 3.5% from emissions of the base year (1990). Credits by Afforestation/Reforestation depict smaller amounts. Debits by Deforestation showed an increasing trend between 2013 and 2015 but remained at a lower level for the years thereafter.

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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.