

Country fact sheet: Croatia

1. Total greenhouse gas emissions

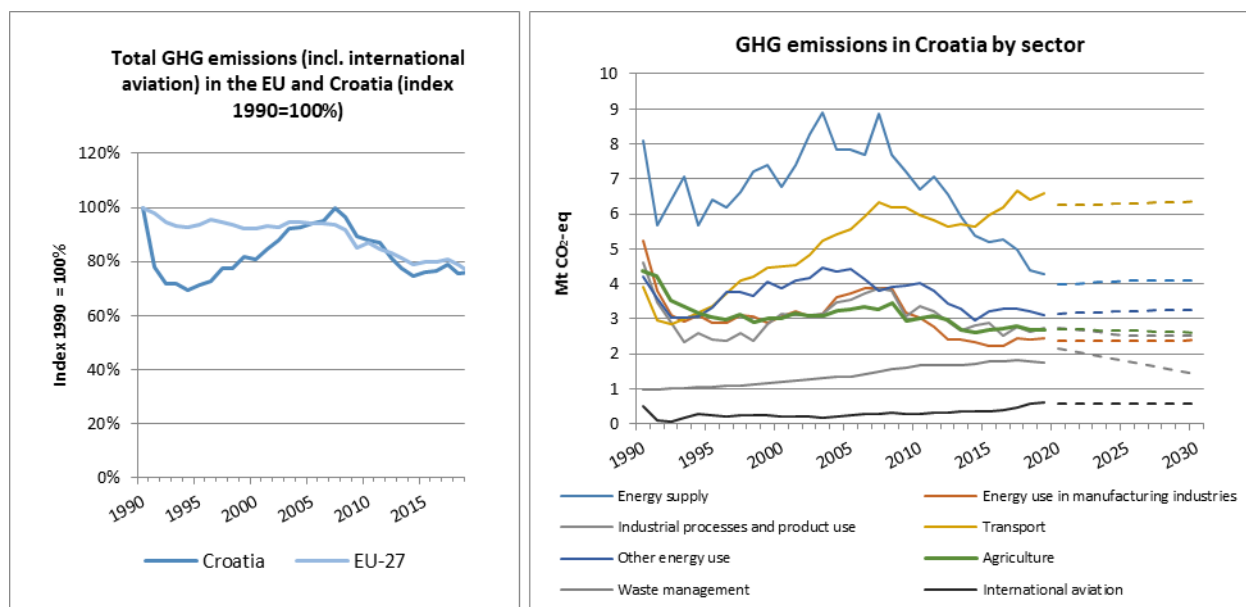


Figure 1: Left hand side: Total greenhouse gas emissions (incl. international aviation) 1990-2020 (index 1990 = 100 %). Right hand side: Greenhouse gas emissions by sector¹ – historical emissions 1990-2019, proxy 2020, projections WEM 2021-2030 (Mt CO₂-eq).

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: 1.D.1.a.

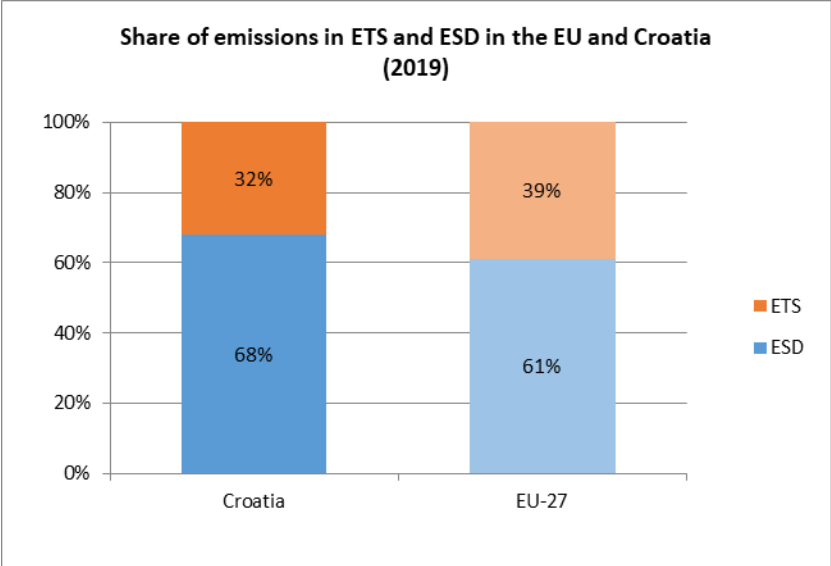


Figure 2: Share of emissions covered by the ETS and the ESD (2019).²

2. ETS emissions

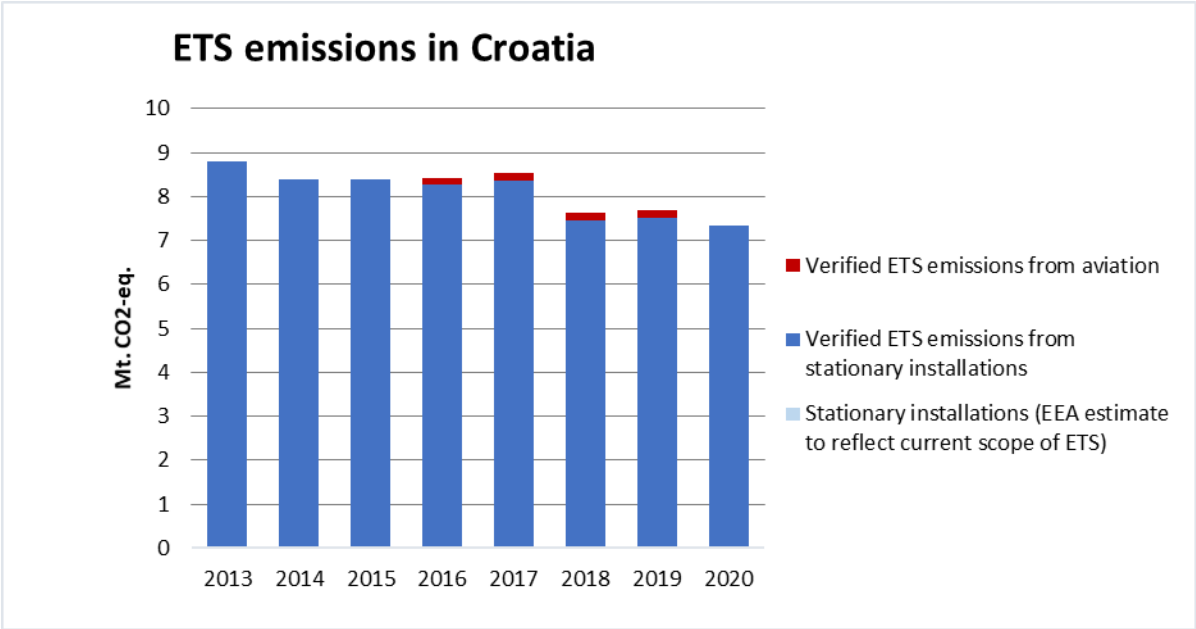


Figure 3: ETS emissions 2013-2020 (Mt CO₂-eq).³

² Excluding international aviation and NF₃.

³ The scope of ETS was extended from 2013.

3. Emissions in Effort Sharing sectors

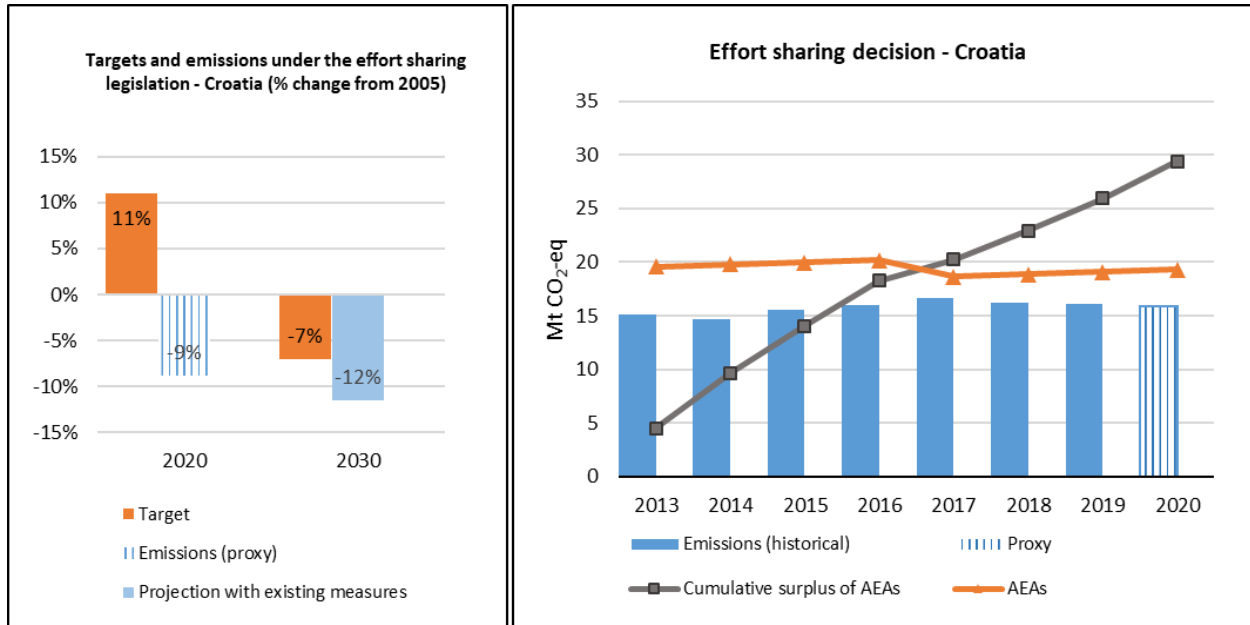


Figure 4: Left hand side: Emissions and targets under the Effort Sharing Decision/ Effort Sharing Regulation 2020 and 2030 as percentage change from 2005. Right hand side: Emissions, annual emission allocations (AEAs) and accumulated surplus/ deficit of AEAs under the Effort Sharing Decision 2013-2020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

4. Land use, land use change and forestry

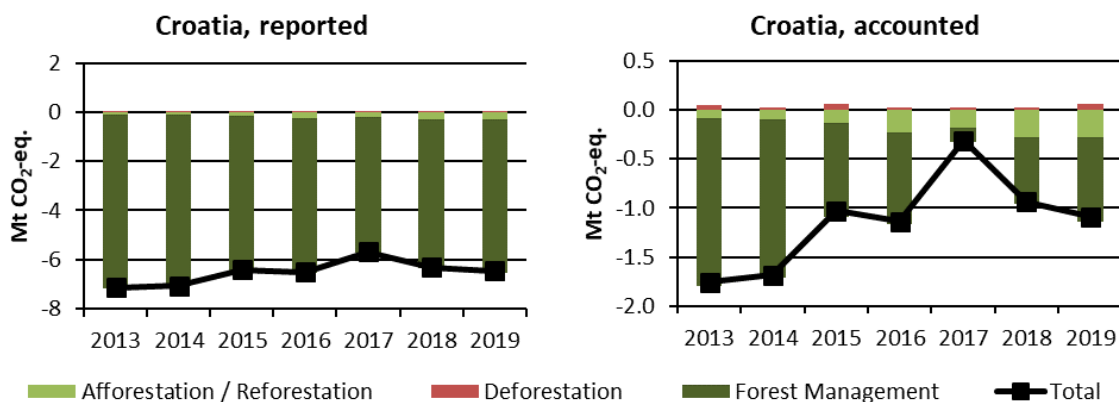


Figure 5: Reported and accounted emissions and removals from LULUCF (Mt CO₂-eq.)⁴

Reported quantities under the Kyoto Protocol for Croatia show net removals of, on average, -6.5 Mt CO₂-eq for the period 2013 to 2019. In this regard, Croatia contributes with 1.9% to the annual average sink of -344.9 Mt CO₂-eq of the EU-27. Accounting for the same period depicts net credits of, on average, -1.1 Mt CO₂-eq, which corresponds to 1.0% of the EU-27 accounted sink of -115.0 Mt CO₂-eq. Reported net removals show a decreasing trend between 2013 and 2017 and a slight increase towards 2019. This pattern is more accentuated for accounted net credits.

The dominating reported activity is Forest Management with net removals. Removals by Afforestation/Reforestation and emissions by Deforestation are negligible in the overall emission budget of the LULUCF sector. Removals by Forest Management show a decrease from -7.1 Mt CO₂-eq in 2013 to -5.5 Mt CO₂-eq in 2017.

Credits by Forest Management dominate the accounts for all years but 2017 when they were surpassed by credits by Afforestation/Deforestation; debits by Deforestation are negligible. The pattern of decreasing trends of credits by Forest Management has been reversed in the years 2018 and 2019. Credits by Afforestation/Reforestation are increasing over time.

⁴The 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 1990–2019 (EEA greenhouse gas data viewer: <https://www.eea.europa.eu/data-and-maps/data/data-viewers/greenhouse-gases-viewer>). *Approximated EU greenhouse gas inventory 2020* (European Environment Agency). Member States national projections, reviewed by the European Environment Agency.

Figure 2: Verified ETS emissions extracted 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>). ESD data from European Commission: *Commission Implementing Decision (EU) on greenhouse gas emissions covered by Decision No 406/2009/EC of the European Parliament and of the Council for the year 2019 for each Member State* (forthcoming).

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.