Future estimates of the part of national emissions covered by an NDC (non-LULUCF emissions)

All sectors & All sectors & Sum over covered gases, using SSP data per gas. 100 % F-gases split by historical average shares*. not all gases covered all gases covered Mean over recent years* kept constant Not all sectors covered & (not) all gases covered or pc cov calculated based on correlation between total and covered emissions* If mean over historical pc $cov^* > 90$ %: keep the mean constant. If mean over historical pc cov* < 10 %: keep the mean constant. else: Slope of linear regression to historical values of pc cov* abs(slope) < threshold (little variability): abs(slope) > threshold (higher variability): ≺ mean* kept constant testing the correlation between total and covered° emissions* r-value of linear regression > threshold else: & pc cov 2018–2050 between 0 % and 100 %: use mean over recent years* use correlation Correlation: < - Future pc cov derived from the linear regression to the covered part of emissions vs. the total emissions for 2010–2017, and the estimates of future total annual emissions and the corresponding covered° emissions. - No too drastic changes expected in pc cov over time. - If future values of pc cov > 90 % but all of them < 90 % in 2010–2017: values < 90 % set to 90 %.

Threshold for slope: +/-1 %; limit for r-values: 0.85 (both based on testing).

- If future values of pc cov < 10 % but all of them > 10 % in 2010-2017; values > 10 % set to 10 %.

[°] if mean historical pc_cov* < 50 % the correlation between the total and not-covered part of emissions is used.

^{*} for 2010-2017.