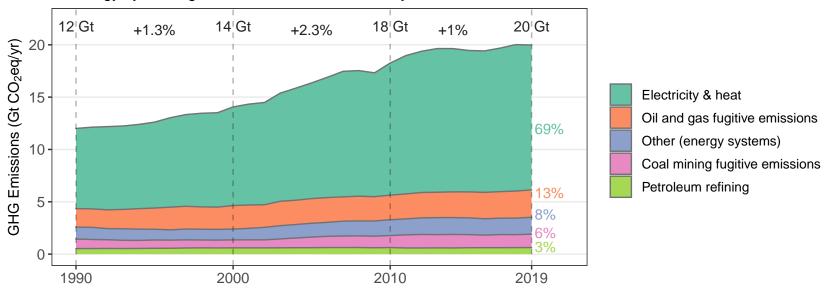
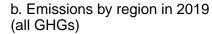
## a. Energy systems global GHG emission trends by subsectors





Per capita GHG emissions % of tot. sector (tCO2eq/capita) **GHG** emissions A. Pacific Africa -6% E. Asia -34% Eurasia -9% Europe -8% Latin Am. -Middle E. 9% N. America -13% S. Asia -8% S.E. Asia 6% World 40 20 15 20 25 0 10

## c. Avg. annual change in kaya factors 2010-2019 (CO2 only)

| CO2   | Carbon intensity | Energy intensity | Energy cons. | GDP/<br>pop | Рор   |
|-------|------------------|------------------|--------------|-------------|-------|
| -0.3% | +1.9%            | -3.5%            | -2.2%        | +1.2%       | +0.1% |
| +1.6% | -1.1%            | -0.5%            | +2.7%        | +0.6%       | +2.7% |
| +3.9% | -0.4%            | -2.1%            | +4.3%        | +6.2%       | +0.3% |
| -0.7% | -0.8%            | -2.1%            | +0.1%        | +1.5%       | +0.6% |
| -3.2% | -1.5%            | -3.5%            | -1.7%        | +1.5%       | +0.3% |
| -0.1% | -0.1%            | -1.1%            | +0%          | +0.2%       | +1%   |
| +2.3% | -0.1%            | +0.3%            | +2.3%        | +1%         | +1.1% |
| -2.9% | -2.4%            | -2.6%            | -0.4%        | +1.5%       | +0.7% |
| +4.6% | +0.8%            | -2.2%            | +3.8%        | +5%         | +1.1% |
| +5.8% | +1.8%            | -1%              | +4%          | +3.8%       | +1.2% |
| +1.2% | -0.2%            | -1.9%            | +1.4%        | +2.3%       | +1.2% |
|       |                  |                  |              |             |       |

World average

Growing (> +1%/yr) Stable ( $\sim 0\%/yr$ )

Declining (< -1%/yr)