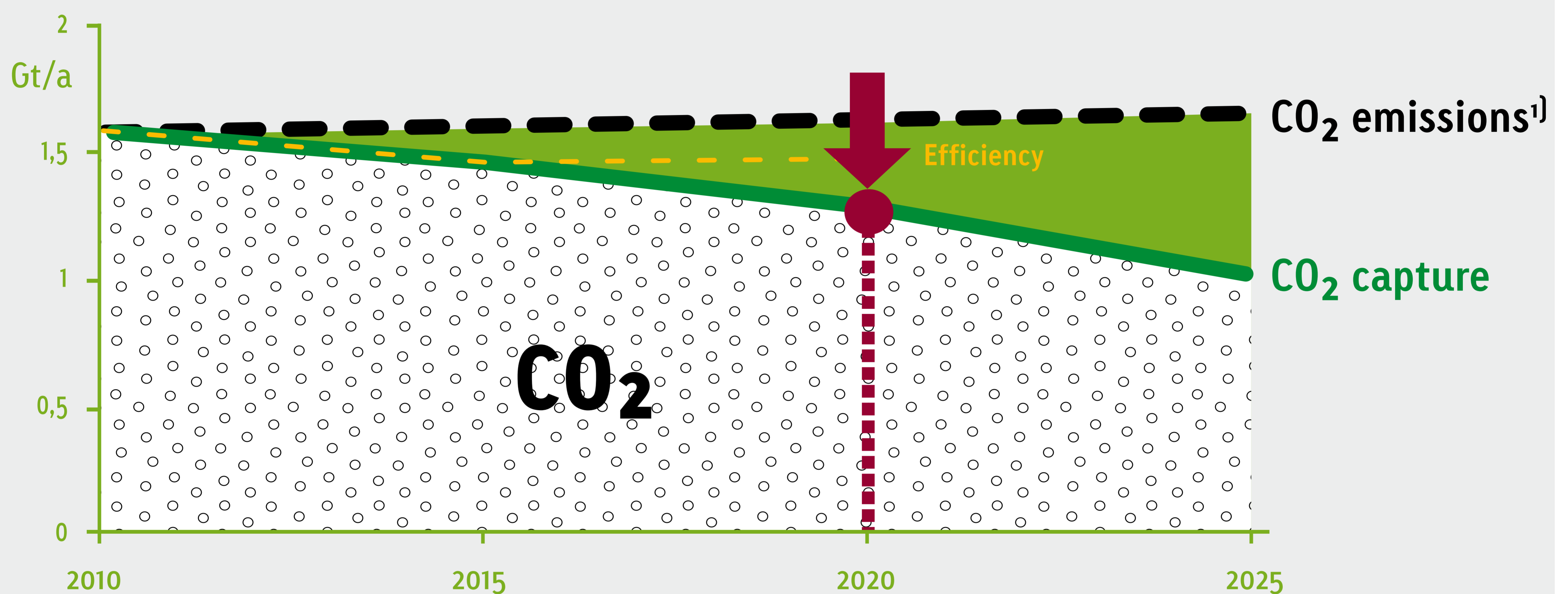


CO₂ emissions must decrease to meet 2020 targets



To meet the 2020 targets 50 % of new plants have to be equipped with CO₂ capture in the period of 2015-2020

How many power plants need to be equipped with CO₂ capture?

Target 2020 [Period 2015-2020]

Fuel	GW	Units
Coal	24	30 ^{800 MW each}
Gas	25	63 ^{400 MW each}

Potential 2025 [Period 2020-2025]

Fuel	GW	Units
Coal	52	65 ^{800 MW each}
Gas	48	120 ^{400 MW each}

149 GW of coal and gas power plants equipped with CO₂ capture need to be built between 2015 and 2025 compared to 131,5 GW of coal and gas power plants built between 2000 and 2010

- ▶ CCS technologies will contribute more to a reduction of greenhouse gas emissions than a switch to renewables²⁾
- ▶ Efficiency improvement in BAT³⁾ power plants vs. European average compensates for the energy penalty of CCS
- ▶ Industry is addressing full CO₂ chain, from capture to storage

1) Source: EU-27 Energy Baseline scenario Trends to 2030 – update 2007, DG TREN, European Commission
 2) Source: International Energy Agency, World Energy Outlook 2009
 3) Best Available Techniques, as defined in the IPPC / IED