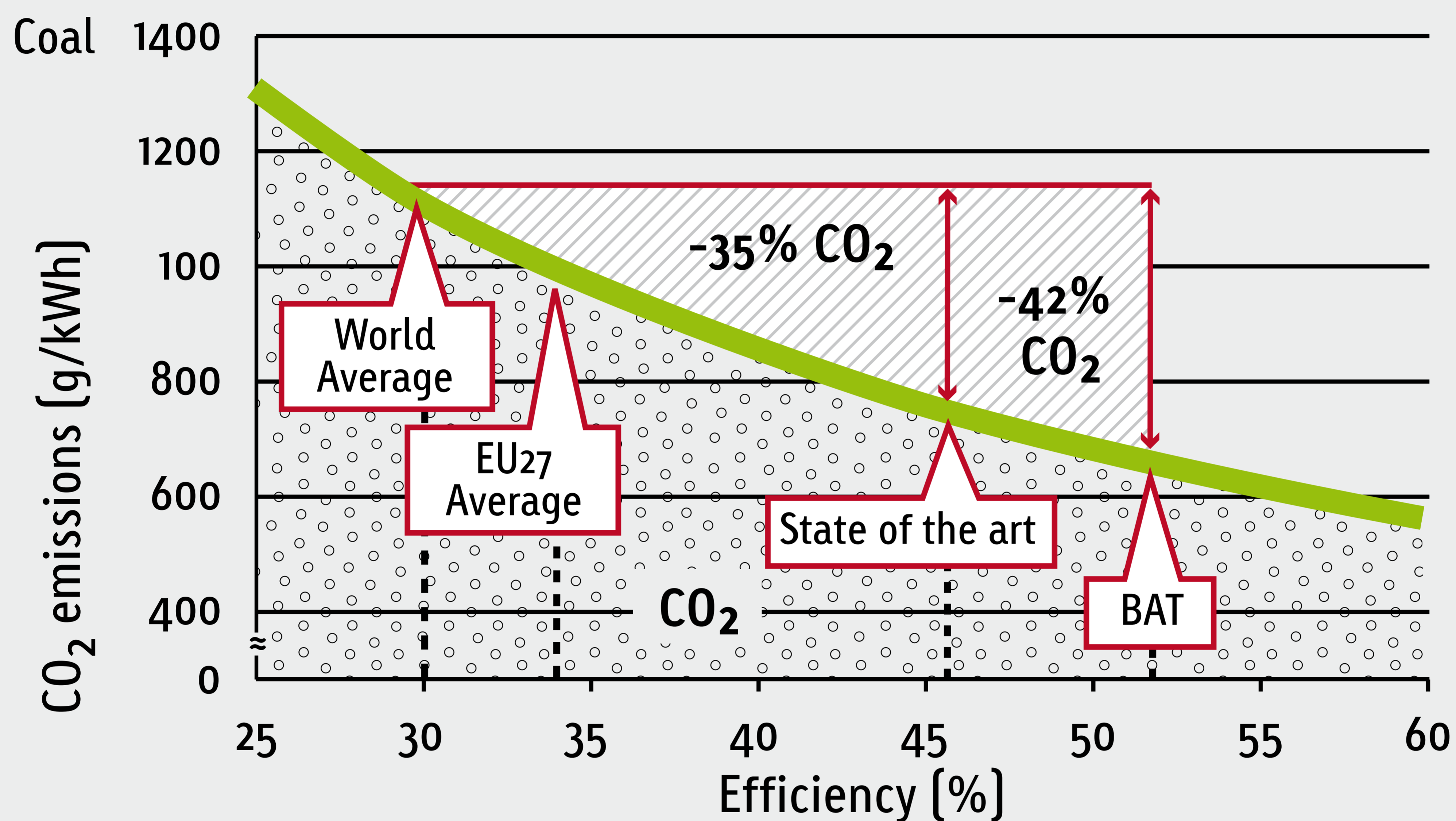


CO₂ avoidance through efficiency increase



Potential 2020 for η increase

- + 5% [basepoints]
- results in 10% less CO₂ emissions

BAT¹⁾ coal fired power plant 2020

- $\eta \rightarrow 52\%$
- adding CO₂ capture $\eta \rightarrow = 45\%$

Best efficiency:
the basis to make CO₂ capture feasible and save fuel

EU Average Net Efficiencies for electricity generation

[not adjusted for CHP]	2000	2005	2010	2015	2020
Solids	0.32	0.31	0.34	0.37	0.41
Oil	0.29	0.29	0.37	0.38	0.42
Natural Gas	0.34	0.39	0.46	0.49	0.50
Derived Gas	0.25	0.28	0.41	0.41	0.42
Biomass	0.19	0.23	0.29	0.33	0.34
Overall Efficiency	0.31	0.33	0.38	0.41	0.43