



Draft benchmark values for the 2021-22 compliance period

	Benchmark for electricity generation (tCO ₂ per MWh)					
	Value in 2019-2020	Balance Value 2021	2021		2022	
			Draft value	Decline rate compared to first plan	Draft value	Decline rate compared to first plan
Conventional coal plants above 300 MW	0.877	0.8210	0.8200	6.5%	0.8159	7.0%
Conventional coal plants below 300 MW	0.979	0.8920	0.8773	10.4%	0.8729	10.8%
Unconventional coal	1.146	0.9627	0.9350	18.4%	0.9303	18.8%
Natural gas	0.392	0.3930	0.3920	0.3%	0.3901	0.5%

	Benchmark for heat production (tCO ₂ per GJ)					
	Value in 2019-2020	Balance Value 2021	2021		2022	
			Draft value	Decline rate compared to first plan	Draft value	Decline rate compared to first plan
Conventional coal plants above 300 MW	0.126	0.1100	0.1108	12.1%	0.1104	12.4%
Conventional coal plants below 300 MW	0.126	0.1100	0.1109	12.0%	0.1104	12.4%
Unconventional coal	0.126	0.1111	0.1110	11.9%	0.1104	12.4%
Natural gas	0.059	0.056	0.056	5.1%	0.0557	5.6%



Allocation formula for a coal-fired power generator

$$A = A_e + A_h, \text{ in which } A_e = Q_e * B_e * F_i * F_r * F_f \text{ and } A_h = Q_h * B_h$$

A: Total allowances for a coal-fired power generator, tCO₂

A_e: Allowances for electricity generation, tCO₂

A_h: Allowances for heat production, tCO₂

Q_e: Net electricity generation, MWh

B_e: Benchmark for electricity generation, tCO₂/MWh

F_i: Cooling system adjustment factor

F_r: Heat/electricity production ratio adjustment factor

F_f: Load efficiency adjustment factor

Q_h: Net heat production, GJ

B_h: Benchmark for heat production, tCO₂/GJ