

Template of Table of Results

P I T	Feeder				Phase-shifting transformer		HVDC	
	N_G	SW_G1	SW_G2	SE_G	PST_NW_NE_1	PST_NW_NE_1	HVDC1	HVDC2
	dP [MW]	dP [MW]	dP [MW]	dP [MW]	dSteps[]	dAngle[°]	dP [MW]	dP [MW]
1								
2								
3								
4								
5								
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ANNEX 2: DATA FOR THE MONETIZATION

CO2 emission per type

Category #	Fuel	Type	Efficiency range in NCV terms	Standard efficiency in NCV terms	CO ₂ emission factor	CO ₂ emission factor	CO ₂ emission factor
			%	%	kg / Net GJ	t / Net MWh	t / MWh
1	Nuclear	-	30% - 35%	33%	0	0.00	0.00
2	Hard coal	old 1	30% - 37%	35%	94	0.34	0.97
3	Hard coal	old 2	38% - 43%	40%	94	0.34	0.85
4	Hard coal	new	44% - 46%	46%	94	0.34	0.74
5	Hard coal	CCS	30% - 40%	38%	9.4	0.03	0.09
6	Lignite	old 1	30% - 37%	35%	101	0.36	1.04
7	Lignite	old 2	38% - 43%	40%	101	0.36	0.91
8	Lignite	new	44% - 46%	46%	101	0.36	0.79
9	Lignite	CCS	30% - 40%	38%	10.1	0.04	0.10
10	Gas	conventional old 1	25% - 38%	36%	57	0.21	0.57
11	Gas	conventional old 2	39% - 42%	41%	57	0.21	0.50
12	Gas	CCGT old 1	33% - 44%	40%	57	0.21	0.51
13	Gas	CCGT old 2	45% - 52%	48%	57	0.21	0.43
14	Gas	CCGT present 1	53% - 60%	56%	57	0.21	0.37
15	Gas	CCGT present 2	53% - 60%	58%	57	0.21	0.35
16	Gas	CCGT new	53% - 60%	60%	57	0.21	0.34
17	Gas	CCGT CCS	43% - 52%	51%	5.70	0.02	0.04
18	Gas	OCGT old	35% - 38%	35%	57	0.21	0.59
19	Gas	OCGT new	39% - 44%	42%	57	0.21	0.49

Redispatch Implementation



20	Light oil	-	32% - 38%	35%	78	0.28	0.80
21	Heavy oil	old 1	25% - 37%	35%	78	0.28	0.80
22	Heavy oil	old 2	38% - 43%	40%	78	0.28	0.70
23	Oil shale	old	28% - 33%	29%	100	0.36	1.24
24	Oil shale	new	34% - 39%	39%	100	0.36	0.92