

Input B_H_REFv1.3_demand_tab_supply.txt

The EnergyPLAN model 16.1

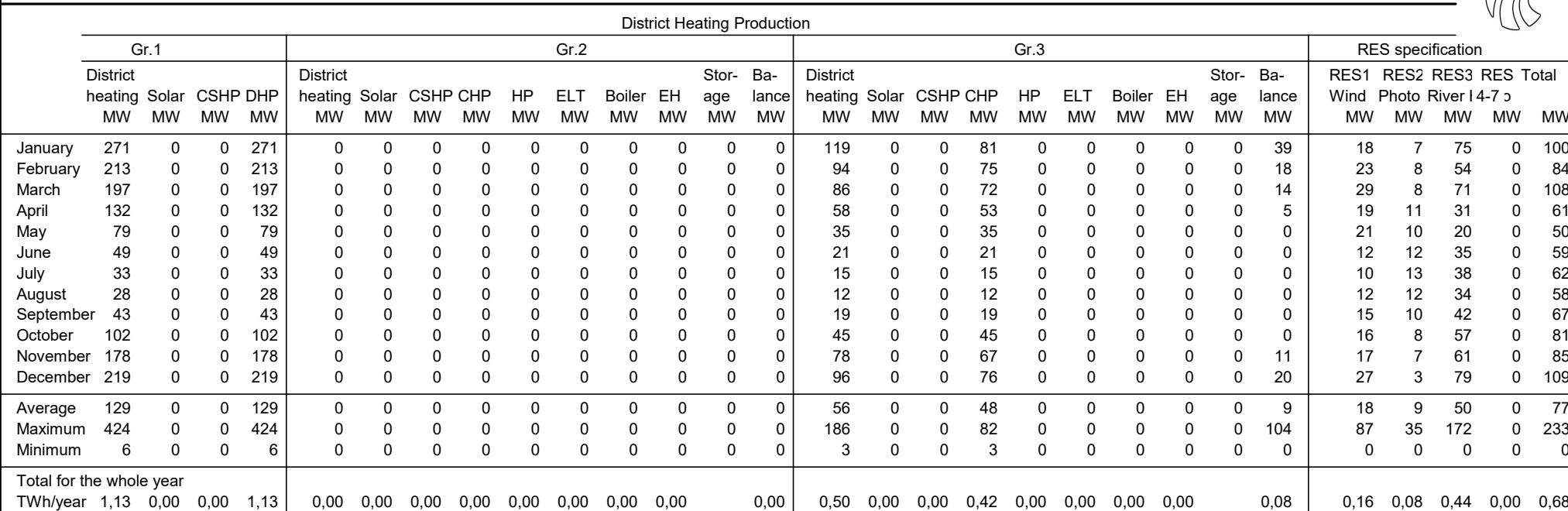


Electricity demand (TWh/year): Flexible demand0,00 Fixed demand 7,52 Fixed imp/exp. 3,57 Electric heating + HP 2,93 Transportation 0,06 Electric cooling 0,22 Total 14,30						Capacities Efficiencies Group 2: MW-e MJ/s elec. Ther COP CHP 0 1500 0,40 0,50 Heat Pump 0 0 3,00 Boiler 0 0,90 Group 3: CHP 1017 82 0,21 0,47 Heat Pump 0 0 3,00 Boiler 0 0,90 Condensing 1099 0,30				Regulation StrategyTechnical regulation no. 1 CEEP regulation 000000000 Minimum Stabilisation share 0,00 Stabilisation share of CHP 0,00 Minimum CHP gr 3 load 0 MW Minimum PP 0 MW Heat Pump maximum share 1,00 Maximum import/export 1800 MW				Fuel Price level: Capacities Storage Efficiencies Elec. Storage MW-e GWh Elec. Ther. Charge 1: 0 0 0,80 Discharge 1: 0 0,90 Charge 2: 0 0 0,80 Discharge 2: 0 0,90 Electrolysers: 0 0 0,80 0,00 Rockbed Storage: 0 0 1,00 CAES fuel ratio: 0,000			
District heating (TWh/year) Gr.1 Gr.2 Gr.3 Sum District heating demand 1,13 0,00 0,50 1,62 Solar Thermal 0,00 0,00 0,00 0,00 Industrial CHP (CSHP) 0,00 0,00 0,00 0,00 Demand after solar and CSHP 1,13 0,00 0,50 1,62						Heatstorage: gr.2: 0 GWh gr.30 GWh Fixed Boiler: gr.2:0,0 Per cent gr.0,0 Per cent				Distr. Name : Hour_nordpool.txt Addition factor 0,00 DKK/MWh Multiplication factor 2,00 Dependency factor 0,00 DKK/MWh pr. MW Average Market Price227 DKK/MWh Gas Storage 0 GWh Syngas capacity 0 MW Biogas max to grid 0 MW				(TWh/year) Coal Oil Ngas Biomass Transport 0,00 13,43 0,01 0,00 Household 1,15 0,41 0,71 13,47 Industry 2,47 1,32 0,89 0,20 Various 0,18 0,39 1,07 0,00			
Wind 87 MW 0,16 TWh/year 0,00 Grid Photo Voltaic 35 MW 0,08 TWh/year 0,00 stabili- River Hydro 172 MW 0,44 TWh/year 0,00 sation River Hydro 0 MW 0 TWh/year 0,00 share Hydro Power 2105 MW 4,21 TWh/year Geothermal/Nuclear 0 MW 0 TWh/year						Electricity prod. from CSHP Waste (TWh/year) Gr.1: 0,00 0,00 Gr.2: 0,00 0,00 Gr.3: 0,00 0,00											

Output

	District Heating										Electricity																Exchange			
	Demand	Production								Ba- lance	Consumption						Production						Balance					Payment Imp Exp Million DKK		
	Distr.	Solar	CSHP	DHP	CHP	HP	ELT	Boiler	EH		Elec. demand	Flex.& Transp	HP	Elec- troyser	EH	Pump	Tur- bine	RES	Hy- dro	Geo- thermal	CSHP	CHP	PP	Stab- Load %	Imp MW	Exp MW	CEEP MW			EEP MW
	heating MW																													
January	391	0	0	271	81	0	0	0	0	39	737	7	4	0	701	0	0	100	482	0	0	999	500	100	13	0	0	0	3	0
February	307	0	0	213	75	0	0	0	0	18	769	7	3	0	550	0	0	84	443	0	0	935	294	100	0	1	0	1	0	0
March	283	0	0	197	72	0	0	0	0	14	712	7	3	0	508	0	0	108	456	0	0	894	391	100	5	3	0	3	1	0
April	190	0	0	132	53	0	0	0	0	5	762	7	2	0	341	0	0	61	452	0	0	661	217	100	0	0	0	0	0	0
May	114	0	0	79	35	0	0	0	0	0	833	7	1	0	204	0	0	50	452	0	0	430	300	100	0	7	0	7	0	1
June	70	0	0	49	21	0	0	0	0	0	966	7	1	0	126	0	0	59	486	0	0	267	414	100	0	0	0	0	0	0
July	48	0	0	33	15	0	0	0	0	0	1074	7	1	0	86	0	0	62	515	0	0	182	741	100	0	0	0	0	0	0
August	41	0	0	28	12	0	0	0	0	0	1035	7	0	0	73	0	0	58	522	0	0	153	871	100	0	0	0	0	0	0
September	62	0	0	43	19	0	0	0	0	0	1013	7	1	0	111	0	0	67	505	0	0	234	626	100	0	0	0	0	0	0
October	147	0	0	102	45	0	0	0	0	0	936	7	2	0	263	0	0	81	493	0	0	553	424	100	0	0	0	0	0	0
November	256	0	0	178	67	0	0	0	0	11	864	7	3	0	459	0	0	85	488	0	0	829	503	100	0	0	0	0	0	0
December	315	0	0	219	76	0	0	0	0	20	866	7	4	0	565	0	0	109	450	0	0	945	482	100	14	6	0	6	3	1
Average	185	0	0	129	48	0	0	0	0	9	881	7	2	0	332	0	0	77	479	0	0	589	482	100	3	1	0	1	Average price	
Maximum	610	0	0	424	82	0	0	0	0	104	1514	13	7	0	1094	0	0	233	556	0	0	1017	1600	100	312	492	0	492	(DKK/MWh)	
Minimum	9	0	0	6	3	0	0	0	0	0	22	0	0	0	17	0	0	0	0	0	0	35	0	100	0	0	0	0	295	195
TWh/year	1,62	0,00	0,00	1,13	0,42	0,00	0,00	0,00	0,00	0,08	7,74	0,06	0,02	0,00	2,91	0,00	0,00	0,68	4,21	0,00	0,00	5,18	4,23		0,02	0,01	0,00	0,01	7	2

FUEL BALANCE (TWh/year):							Waste/ CAES BioCon-Electro-					PV and Wind off				Industry			Imp/Exp Corrected		CO2 emission (Mt):			
DHP	CHP2	CHP3	Boiler2	Boiler3	PP	Geo/Nu.Hydro	HTL	Elc.ly.	version	Fuel	Wind	CSP	Wave	Hydro	Solar.Tt	Transp.househ.	Various	Total	Imp/Exp	Net	Total	Net		
Coal	0,65	-	0,88	-	-	7,00	-	-	-	-	-	-	-	-	-	-	1,15	2,64	12,33	0,00	12,33	4,22	4,22	
Oil	0,08	-	-	-	-	2,34	-	-	-	-	-	-	-	-	-	13,43	0,41	1,71	17,97	0,00	17,97	4,79	4,79	
N.Gas	0,48	-	-	-	-	2,34	-	-	-	-	-	-	-	-	-	0,82	0,71	1,96	6,32	0,00	6,32	1,30	1,46	
Biomass	0,04	-	-	-	-	2,34	-	-	-	-	-	-	-	-	-	-	13,47	0,20	16,06	0,00	16,06	0,00	0,00	
Renewable	-	-	-	-	-	-	-	4,21	-	-	-	0,16	0,08	-	4,64	-	-	-	4,89	0,00	4,89	0,00	0,00	
H2 etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,00	0,00	0,00	0,00	0,00	
Biofuel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,00	0,00	0,00	0,00	0,00	
Nuclear/CCS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,00	0,00	0,00	0,00	0,00	
Total	1,25	-	0,88	-	-	14,04	-	4,21	-	-	-	0,16	0,08	-	4,64	-	14,25	15,74	6,51	57,56	0,04	57,60	10,30	10,47

[illegible]