

Input alt1AElectricHeating-PV.txt

The EnergyPLAN model 12.4



Electricity demand (TWh/year):	Flexible demand	0,00	
Fixed demand	0,00	Fixed imp/exp.	0,00
Electric heating + HP	47,00	Transportation	0,00
Electric cooling	0,00	Total	47,00


District heating (TWh/year)	Gr.1	Gr.2	Gr.3	Sum
District heating demand	0,00	0,00	0,00	0,00
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	0,00	0,00	0,00	0,00

Wind	0 MW	0,00	TWh/year	0,00	Grid
Photo Voltaic	45800 MW	55,18	TWh/year	0,00	stabili-
Offshore Wind	0 MW	0	TWh/year	0,00	sation
River Hydro	0 MW	0	TWh/year	0,00	share
Hydro Power	0 MW	0	TWh/year		
Geothermal/Nuclear	0 MW	0	TWh/year		

	Capacities		Efficiencies		
Group 2:	MW-e	MJ/s	elec.	Ther	COP
CHP	0	0	0,40	0,50	
Heat Pump	0	0			3,00
Boiler		5000		0,90	
Group 3:					
CHP	0	0	0,40	0,50	
Heat Pump	0	0			3,00
Boiler		5000		0,90	
Condensing	0		0,45		

Heatstorage: gr.2:	10 GWh	gr.3:	10 GWh
Fixed Boiler: gr.2:	0,0 Per cent	gr.3:	0,0 Per cent
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	

Regulation Strategy:	Technical 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	0,50
Maximum import/export	0 MW
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 Price	227 DKK/MWh
Gas Storage	0 GWh
Syngas capacity	0 MW
Biogas max to grid	0 MW

Fuel Price level: Basic				
	Capacities	Storage	Efficiencies	
	MW-e	GWh	elec.	Ther.
Hydro Pump:	99999	28000	0,90	
Hydro Turbine:	99999		0,89	
Electrol. Gr.2:	0	0	0,80	0,10
Electrol. Gr.3:	0	0	0,80	0,10
Electrol. trans.:	0	0	0,80	
Ely. MicroCHP:	0	0	0,80	
CAES fuel ratio:	0,000			
(TWh/year)	Coal	Oil	Ngas	Biomass
Transport	0,00	0,00	0,00	0,00
Household	0,00	0,00	0,00	0,00
Industry	0,00	0,00	0,00	0,00
Various	0,00	0,00	0,00	0,00

Output WARNING!!: (3) PP/Import problem

District Heating											Electricity																	Exchange		
Demand	Production								Ba- lance MW	Consumption						Production						Balance					Payment			
Distr. heating MW	Solar MW	CSHP MW	DHP MW	CHP MW	HP MW	ELT MW	Boiler MW	EH MW		Elec. demand MW	Flex.& Transp. MW	HP MW	Elec- trolyser MW	EH MW	Hydro Pump MW	Tur- bine MW	RES MW	Hy- dro MW	Geo- thermal MW	Waste+ CSHP MW	CHP MW	PP MW	Stab- Load %	Imp MW	Exp MW	CEEP MW	EEP MW	Imp	Exp	
																														Million DKK
January	0	0	0	0	0	0	0	0	0	0	0	0	0	9425	98	8544	979	0	0	0	0	0	100	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0	9674	784	7600	2858	0	0	0	0	0	100	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	8044	2626	5200	5469	0	0	0	0	0	100	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	6180	4839	3153	7845	0	0	0	0	0	100	21	0	0	0	0	3	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	4560	10397	1750	13208	0	0	0	0	0	100	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0	0	0	1335	10159	388	11106	0	0	0	0	0	100	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0	0	0	0	1335	12044	405	12975	0	0	0	0	0	100	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	0	0	0	1335	8011	502	8844	0	0	0	0	0	100	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0	0	2766	3983	1459	5289	0	0	0	0	0	100	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	4774	1700	3246	3227	0	0	0	0	0	100	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	6680	1063	5182	2561	0	0	0	0	0	100	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	8236	114	7493	857	0	0	0	0	0	100	0	0	0	0	0	0	0
Average	0	0	0	0	0	0	0	0	0	0	0	0	0	5351	4669	3735	6282	0	0	0	0	0	100	2	0	0	0	Average price		
Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0	17458	43163	16388	45800	0	0	0	0	0	100	7162	0	0	0	(DKK/MWh)		
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	0	1003	0	0	0	0	0	0	0	0	100	0	0	0	0	214	-	
TWh/year	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	47,00	41,01	32,81	55,18	0,00	0,00	0,00	0,00	0,00		0,02	0,00	0,00	0,00	3	0	

FUEL BALANCE (TWh/year):										CAES				BioCon-				Electro-				Industry				Imp/Exp Corrected		CO2 emission (Mt):	
DHP	CHP2	CHP3	Boiler2	Boiler3	PP	Geo/Nu.	Hydro	Waste	Elc.ly.	version	Fuel	Wind	PV	Offsh.	Hydro	Solar.Th.	Transp.	househ.	Various	Total	Imp/Exp	Net	Total	Net					
Coal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,00	0,00	0,00	0,00	0,00					
Oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,00	0,00	0,00	0,00	0,00					
N.Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,00	0,00	0,00	0,00	0,00					
Biomass	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,00	0,00	0,00	0,00	0,00					
Renewable	-	-	-	-	-	-	-	-	-	-	-	-	55,18	-	-	-	-	-	-	55,18	0,00	55,18	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	-	-	-	-	-	-	-	-	-	-	-	-	55,18	-	-	-	-	-	-	55,18	0,03	55,21	0,00	0,00					