


Input


CediS_data.txt

The EnergyPLAN model 10.1



Electricity demand (GWh/year):		Flexible demand		0.00				Capacities		Efficiencies		Regulation Strategy: Technical regulation no. 2		Fuel Price level:									
Fixed demand	14.07	Fixed imp/exp.	0.00				Group 2:		kW-e	kJ/s	elec.	Ther	KEOL regulation		00000000		Capacities Storage Efficiencies						
Electric heating	0.00	Transportation	0.00				CHP		0	0	0.40	0.50	Minimum Stabilisation share		0.30		kW-e MWh elec. Ther.						
Electric cooling	0.00	Total	14.07				Heat Pump		0	0			3.00	Stabilisation share of CHP		0.00		Hydro Pump: 0 0 0.80					
								Boiler		0		0.90			Minimum CHP gr 3 load		0 kW		Hydro Turbine: 0 0 0.90				
District heating (GWh/year)		Gr.1	Gr.2	Gr.3	Sum		Group 3:								Minimum PP		0 kW		Electrol. Gr.2: 0 0 0.80 0.10				
District heating demand	0.00	0.00	0.00	0.00	0.00		CHP		0	0	0.40	0.50			Heat Pump maximum share		0.50		Electrol. Gr.3: 0 0 0.80 0.10				
Solar Thermal	0.00	0.00	0.00	0.00	0.00		Heat Pump		0	0			3.00			Maximum import/export		10000 kW		Electrol. trans.: 0 0 0.80			
Industrial CHP (CSHP)	0.00	0.00	0.00	0.00	0.00		Boiler		0		0	0.90							Ely. MicroCHP: 0 0 0.80				
Demand after solar and CSHP	0.00	0.00	0.00	0.00	0.00		Condensing		0	0.45		CIVIS		CEdiS_Hour_Elec_Price_distribution.txt				CAES fuel ratio: 0.000					
Photo Voltaic	5566 kW	5.97	GWh/year	1.00	Grid	Heatstorage: gr.2:		0 MWh		gr.3:		0 MWh		Addition factor		0.00 EUR/MWh		(GWh/year)		Coal	Oil	Ngas	Biomass
Wind	0 kW	0	GWh/year	0.00	stabili-	Fixed Boiler: gr.2:		0.0 Per cent		gr.3:		0.0 Per cent		Multiplication factor		1.00		Transport		0.00	0.00	0.00	0.00
Wave Power	0 kW	0	GWh/year	0.00	sation	Electricity prod. from		CSHP		Waste		(GWh/year)		Dependency factor		0.00 EUR/MWh pr. MW		Household		0.00	12.59	3.78	12.59
River Hydro	0 kW	0	GWh/year	0.00	share	Gr.1:		0.00		0.00				Average Market Price		62 EUR/MWh		Industry		0.00	0.00	0.00	0.00
Hydro Power	4592 kW	17.95	GWh/year			Gr.2:		0.00		0.00				Gas Storage		0 MWh		Various		0.00	0.00	0.00	0.00
Geothermal/Nuclear	0 kW	0	GWh/year			Gr.3:		0.00		0.00				Syngas capacity		0 kW							
														Biogas max to grid		0 kW							



District Heating Production																															
Gr.1					Gr.2										Gr.3										RES specification						
District heating kW	Solar kW	CSHP kW	DHP kW		District heating kW	Solar kW	CSHP kW	CHP kW	HP kW	ELT kW	Boiler kW	EH kW	Storage kW	Balance kW	District heating kW	Solar kW	CSHP kW	CHP kW	HP kW	ELT kW	Boiler kW	EH kW	Storage kW	Balance kW	RES1 Photo kW	RES2 Wind kW	RES3 Wave kW	RES4 River kW	Total Power kW		
January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	256	0	0	0	256		
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	378	0	0	0	378		
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	590	0	0	0	590		
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	764	0	0	0	764		
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	899	0	0	0	899		
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1191	0	0	0	1191		
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1254	0	0	0	1254		
August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1142	0	0	0	1142		
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	836	0	0	0	836		
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	359	0	0	0	359		
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	252	0	0	0	252		
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220	0	0	0	220		
Average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	679	0	0	0	679		
Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5566	0	0	0	5566		
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total for the whole year																															
GWh/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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		5.97	0.00	0.00	0.00	5.97		

ANNUAL COSTS (1000 EUR)			DHP & Boilers kW	CHP2 CHP3 kW	PP CAES kW	Individual kW	Transport kW	Indu. Var. kW	Demand Sum kW	Bio-gas kW	Syn-gas kW	CO2Hy gas kW	SynHy gas kW	SynHy gas kW	Storage kW	Sum kW	Import kW	Export kW		
Total Fuel =	2506																			
Uranium =	0	January	0	0	0	875	0	0	875	0	0	0	0	0	0	875	875	0		
Coal =	0	February	0	0	0	860	0	0	860	0	0	0	0	0	0	860	860	0		
FuelOil =	0	March	0	0	0	676	0	0	676	0	0	0	0	0	0	676	676	0		
Gasoil/Diesel=	1826	April	0	0	0	374	0	0	374	0	0	0	0	0	0	374	374	0		
Petrol/JP =	0	May	0	0	0	271	0	0	271	0	0	0	0	0	0	271	271	0		
Ngas =	0	June	0	0	0	120	0	0	120	0	0	0	0	0	0	120	120	0		
Biomass =	680	July	0	0	0	75	0	0	75	0	0	0	0	0	0	75	75	0		
Food income =	0	August	0	0	0	81	0	0	81	0	0	0	0	0	0	81	81	0		
Waste =	0	September	0	0	0	149	0	0	149	0	0	0	0	0	0	149	149	0		
Marginal operation costs =	45	October	0	0	0	215	0	0	215	0	0	0	0	0	0	215	215	0		
Total Electricity exchange =	-510	November	0	0	0	591	0	0	591	0	0	0	0	0	0	591	591	0		
Import =	142	December	0	0	0	890	0	0	890	0	0	0	0	0	0	890	890	0		
Export =	-652	Average	0	0	0	430	0	0	430	0	0	0	0	0	0	430	430	0		
Bottleneck =	0	Maximum	0	0	0	1217	0	0	1217	0	0	0	0	0	0	1217	1217	0		
Fixed imp/ex=	0	Minimum	0	0	0	74	0	0	74	0	0	0	0	0	0	74	74	0		
Total CO2 emission costs =	0	Total for the whole year																		
Total Ngas Exchange costs =	325	GWh/year	0.00	0.00	0.00	3.78	0.00	0.00	3.78	0.00	0.00	0.00	0.00	0.00	0.00	3.78	3.78	0.00		
Total variable costs =	2366																			
Fixed operation costs =	745																			
Annual Investment costs =	3098																			
TOTAL ANNUAL COSTS =	6209																			
RES Share:	69.0	Percent of Primary Energy	170.0	Percent of Electricity	23.9 GWh electricity from RES													13-October-2014 [13:41]		