Inpu	Input B_H_REFv1.10_Technical_simulation.txt The EnergyPLAN model 16.1															,													
Fixed de Electric h Electric d	 nd (TWh/y 7,99 + HP <mark>2,90</mark>	/year): F 05 F 03 T	Flexible Fixed ir Transp Total	e dema imp/exp portation	and0,00 p. 0,00 on <mark>0,06</mark> 11,16	0 0 6 6		0	Group CHP Heat F Boiler	p 2: Pump <mark>m</mark>	Сар	pacities e MJ/s 500 0,4		COP	CEEP Minimu Stabilis Minimu	regulati <mark>um Stat</mark> sation s um CHF	trateçTe	echnical i 00000 on share f CHP	regulation 1000000	ion no	p. 1	•				V(((iciencies		
District heating demand 1,13 0,00 0,50 1,63 Solar Thermal 0,00 0,00 0,00 0,00 Industrial CHP (CSHP) 0,00 0,00 0,00 0,00									Group CHP Heat I Boiler Conde	Pump	443 0 1058	82 0,2 0 0 0	0,90	3,00)	Minimum PP 0 MW Heat Pump maximum share 1,00 Maximum import/export 2100 MW Distr. lavex_market_price_2020.txt Addition factor 0.00 EUR/MWh Distribution factor 0.00 EUR/MWh Charge 2: 420 Discharge 2: 420 Electrolysers: 0 Rockbed Storage: 0 CAES fuel ratio:								3 che	3 0,80 che Cassina 0 0,80 0,00 0 1,00				
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 1685 MW 4,28 TWh/year Geothermal/Nuclear 0 MW 0 TWh/year										Fixed	Boiler:	0	Per cent	rear)	Multiplication factor 1,00 Dependency factor 0,00 EUR/MWh pr. MW Average Market Price 39 EUR/MWh Gas Storage 0 GWh Syngas capacity 0 MW Biogas max to grid 0 MW						f. MW <u> </u>	(TWh/y Transp Housel Industr Various	year) oort hold	Oil 13,43 0,41 1,32	Ngas 0,01 0 0,71 13 0,89 0	Biomass 0,00 8,47 0,20 0,39			
Outp	Output																												
-		-			rict Hea					'							Electricity Production Balance									\rightarrow	Excha	nge	
-	Demand	1	14/- ata		Produc	ction				Da	Floo		nsumption		Lliadro	Production							Otah	Ва	-	Payment			
	Distr. heating		Waste-		CHP	HP	ELT	Boiler		Ba- lance	1	Flex.& dTransp HP	Elec- r trolyse		Hydro Pump		RES	Hy- dro the		Waste CSHP C			Stab- Load	Imp	Exp	CEEP	EEP	Imp	Ехр
	MW				MW	MW	MW	MW	MW	MW	MW	MW MV	,		MW	MW	MW					MW	%	MW		MW	MW	Million E	≟UR
January	391	0	0	271	81	0	0	0	0	39	795	7	4 0	701	0	0	100	488	0	0	435	484	140	0	0	0	0	0	0
February	307	0		213	75	0	0	0	0	18	822		3 0	550	0	0	84	487	0			404	144	0	0	0	0	0	0
March April	283 190	0	0 0	197 132	72 53	0 0	0 0	0	0 0	14 5	761 806	7	3 0 2 0	508 341	0 0	0	108 61	482 486	0 0			297 321	146 155	2 0	0 0	0 0	0	0	0
April May	114	0 0	0	132 79	53 35	0	0	0	0	5 0	874		1 0	341 204	0	0	50	486 487	0	-		321 360	155 159	1	0	0	0	0	0
June	70	0	0	49	21	0	0	0	0	0	1010		1 0	126	0	0	59	488	0	-		481	156	0	0	0	0	0	o
July	48	0	0	33	15	0	0	0	0	0	1121		1 0	86	0	0	62	488	0	0		585	152	1	0	0	0	0	o
August	41	0	0	28	12	0	0	0	0	0	1079	_	0 0	73	0	0	58	488	0	0		547	155	0	0	0	0	0	o
Septembe		0	0	43	19	0	0	0	0	0	1058		1 0	111	0	0	67	488	0			520	153	0	0	0	0	0	0
October Novembe	147 r 256	0	0 0	102 178	45 67	0 0	0 0	0 0	0 0	0 11	984 917		2 0 3 0	263 459	0 0	0 0	81 85	488 487	0 0			447 452	149 145	0	0 0	0 0	0	0	0
December		0 0		219	76	0	0	0	0	20	924	7 7	3 0 4 0	459 565	0	0	109	487	0	-		491	140	0	0	0	0	0	o
	4			129		0	0	0								0				-					0	0		Assarage	
Average	105	0	Λ.					U	0	9	930	7		332	0	-	77	487	0			449	150	0			0	Average	
Average Maximum	185 610	0	0		48 82		0		0	104	1577	13	7 0	1094	0	()	233	488	()	0	443	982	210	345	0	0	οl	'FUR/N	'/////h)
Average Maximum Minimum	185 610 9	0 0 0	0 0 0	424 6	82	0	-	0	0	104 0	1577 65		7 0 0 0	1094 17	0 0	0 0	233 0	488 307	0 0	0	443 9 15	982 0	210 124	345 0	0	0 0	0	(EUR/N	MWh) 43
Maximum Minimum	610 9	0 0	0	424 6	82 3	0	0	0	0	0	65	0	0 0	17	0	0	0	307	0	0	15	0	124 Poslic e	0 :dica ı	0 non-n	0 narke	o et ana	0 alize	4
Maximum Minimum TWh/year	610 9 1,63	0 0	0,00 1	424 6	82 3	0	0	0	0	0,08	65 8,17		0 0,00	17 2,91	0,00		0,68	307	0	0	15 2,25 3		124 Poslje	0 dica 1 0,00	•	n <mark>arke</mark> 0,00	0 et ana 0,00	l `	43

	DHP	CHP2	CHP3	Boiler2	Boile	r3 PP	Geo/Nu.Hydro HTL			Elc.ly. version Fuel			Wind	CSP	Wave Hydro Solar.Tr Transp.househ.Vari						us Total	Imp/E	xp Net	Total Net		
Coal	0,54	-	0,84	-	-	13,55	-	-	-	-	-	-	-	-	-	-	-	-	1,15	8,29	24,37	0,01	24,38	10,09	10,09	
Oil	0,01	-	-	-	-	0,00	-	-	-	-	-	-	-	-	-	-	-	13,43	0,41	3,18	17,04	0,00	17,04	4,45	4,45	
N.Gas	0,40	-	-	-	-	0,00	-	-	-	-	-	-	-	-	-	-	-	0,82	0,71	1,99	3,92	0,00	3,92	0,91	1,10	
Biomass	0,31	-	0,04	-	-	0,00	-	-	-	-	-	-	-	-	-	-	-		13,47	0,59	14,41	0,00	14,41	0,00	0,00	
Renewab	le <mark>-</mark> M	Inimal	ne raz	like	-	-	-	4,28	-	-	-	-	0,16	0,08	-	4,71	-	LPG	+ gas	-	4,95	0,00	4,95	0,00	0,00	
H2 etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,00	0,00	0,00	0,00	0,00	
Biofuel	-	-	0,00	-	ъ	odi mo	nio pr	الممارحان	nio-	-	-	-	-	-	Hvdr	o dam	nmed	l + mH	E	-	0,00	0,00	0,00	0,00	0,00	
Nuclear/C	CS -	-	-	-	K	adi ma	nje pr	Jizvodi	iije_	-	-	-	-	-	,				_, 3 i 4,71) -	0,00	0,00	0,00	0,00	0,00	
Total	1,25	-	0,88	-	-	13,55	-	4,28	-	-	-	-	0,16	0,08	-	4,71	-	14,25	15,74	14,06	64,69	0,01	64,70	15,46	15,64	

Outp	ut s	pec	ifica	atior	าร		B_H	_RI	EFι	/1.1	0_T	ech	nnic	al_	simu	latio	on.tx	κt		Tł	ne E	ne	rgy	PLAI	V mo	del	16.1	M
											Dist	rict Hea	ating P	roducti	on												_ \	100
	G	ir.1								Gr.2									Gr.3						RE	S speci	fication	
	District heating MW	Solar MW	CSHF MW	DHP	District heating MW	Solar MW	CSHP MW	CHP MW	HP MW	ELT MW	Boiler MW	EH MW	Stor- age MW	Ba- lance MW	District heating MW	Solar MW	CSHP MW	CHP	HP MW	ELT MW	Boiler MW	EH MW	Stor- age MW	Ba- lance MW		Photo F	River I 4-	RES Total 7 o MW MV
January February March April May June July August Septembe October Novembe Decembe Average Maximum Minimum	102 er 178 er 219	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	271 213 197 132 79 49 33 28 43 102 178 219	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 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	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	0 0 0 0 0 0 0 0 0	119 94 86 58 35 21 15 12 19 45 78 96	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	81 75 72 53 35 21 15 12 19 45 67 76 48 82 3	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	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	39 18 14 5 0 0 0 0 0 11 20	18 23 29 19 21 12 10 12 15 16 17 27	7 8 8 11 10 12 13 12 10 8 7 3	75 54 71 31 20 35 38 34 42 57 61 79	0 10 0 8 0 10 0 6 0 5 0 6 0 5 0 6 0 8 0 10
Minimum Total for t TWh/year	he whole	e year 0,00	0,00	1,13	0,00	0,00		0,00	0,00	0,00	0,00	0,00	0	0,00	0,50	0,00	0,00	0,42	Cita		os treb			ti na 0, 0,08		0,08	0,44	0,00 0,6
ANNUAL Total Fue Uranium Coal FuelOil Gasoil/Dir Petrol/JP Gas hanc Biomass Food inco Waste Total Nga Marginal Total Elec Import Export Bottlenec Fixed imp	COSTS I ex Nga = = esel= = silling = = ome = = as Excha operatio ctricity ex = k =	(Milli) s excha 2 1 8 1 2 nnge co	on EUI ange = 0 247 21 391 557 29 194 0 0 sts =	R)	3			Averaç Maxim Minim	ry ary at mber er nber nber ge num um	45 149 2	CHP2 CHP3 MW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PP CAE MW	ES v	ndi- idual MW 171 134 124 83 50 31 21 18 27 64 112 138 81 268 4	Trans port MW 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Indu. Var. MW 239 259 242 193 172 139 159 112 156 383 267 391 226 739 0		nand E m		S EXCH Syn- gas MW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IANGE CO2 gas MW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		SynHy gas MW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SynHy gas MW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stor-age MW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sum MW 507 470 437 324 251 189 193 141 200 485 443 608 354 872 9	Im- port MW 507 470 437 324 251 189 193 141 200 485 443 608 354 872 9	
Total CO: Total vari Fixed ope Annual In TOTAL A	able cos eration co vestmer	ts = osts = nt costs	=	235 33910 57902 94163) 2				orthe vear 0	whole y	year 0,00	0,00	0 0),71	0,01	1,99	3,11	I 0),00	0,00	0,00	0	,00	0,00	0,00	3,11	3,11	0,00

5,1 TWh electricity from RES

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RES Share: 29,9 Percent of Primary Energy 46,3 Percent of Electricity