



Renewable Energy Sources
Operator and Guarantees of Origin
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Residual Energy Mix 2020 (short version only results)

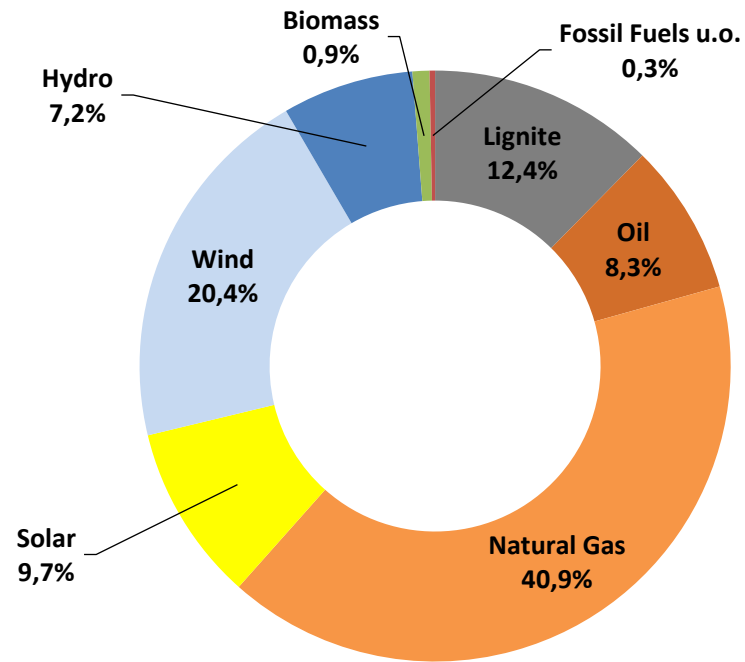
June 2021

Department of Guarantees of Origin and Energy Mix

Disclaimer

The basic principles for calculating the Residual Energy Mix – under the responsibility of DAPEEP according to the article 118 of 4001/2011 as applicable -, defined at the Renewable Energy Sources Operator and Guarantees of Origin Code, are in accordance with the methodology applied by the Association of Issuing Bodies (AIB) in order to calculate the European Attribute Mix (EAM) (Issuance Based Methodology, RE-DISS II). The methodology implementation details have been submitted and are to be approved by the Regulating Authority for Energy. As a result the current results may be subjected to future changes by RAE's decision.

Production Mix 2020



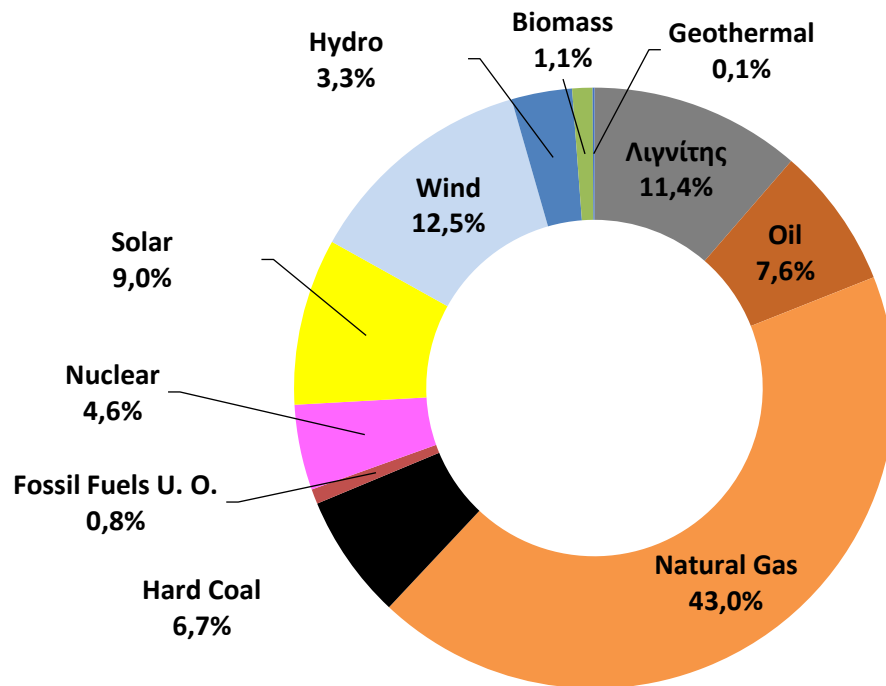
2020	Lignite	Oil	Natural Gas ¹	Fossil Fuels U. O. ²	Sum of Fossil Fuels	Solar	Wind	Hydro	Biomass	RES of U. O. ²	Sum of RES	Total	CO ₂ Emissions(gCO ₂ /kWh)
%	12,37%	8,29%	40,91%	0,30%	61,86%	9,67%	20,35%	7,19%	0,93%	0,00%	38,14%	100,0%	405,62
TWh	5,72	3,83	18,92	0,14	28,61	4,47	9,41	3,33	0,43	0,00	17,64	46,25	

¹Includes production of HE-CHP with Natural Gas as fuel source.

²Unspecified origin. Electricity consumed to fill up the storage tank of pumped storage hydro power stations is included as Fossil Fuel of Unspecified Origin

Figure 1: Production Mix 2020

Residual Energy Mix 2020



2020	Lignite	Hard Coal	Oil	Natural Gas ¹	Fossil Fuel un-specified ²	Sum of Fossil Fuels	Nuclear	Solar	Wind	Hydro	Biomass	Geothermal	RES U.O. ²	Sum of RES	Total	CO ₂ Emissions (gCO ₂ /kWh)	R.W. ³ (mgRW/kWh)
%	11,36%	6,73%	7,63%	43,00%	0,80%	69,52%	4,60%	8,98%	12,46%	3,26%	1,09%	0,10%	0,00%	25,89%	100,00%		
TWh	5,83	3,46	3,92	22,08	0,41	35,69	2,36	4,61	6,40	1,67	0,56	0,05	0,00	13,29	51,35	487,22	0,17

¹ Includes production of HE-CHP with Natural Gas as fuel source.

² Unspecified Origin

³ Radioactive Wastes

Figure 2: Residual Energy Mix 2020

Table 1: Aggregated Results of Energy Mix 2020

2020	Production Mix (PM)		Corrected with Imports		Preliminary Residual Energy Mix (REM)		Final Residual Mix	
Lignite	5,72	12,37%	5,72	11,24%	5,72	13,06%	5,83	11,36%
Hard Coal	0,00	0%	1,90	3,73%	1,90	4,34%	3,46	6,73%
Oil	3,83	8,29%	3,84	7,53%	3,84	8,75%	3,92	7,63%
Natural Gas ¹	18,92	40,91%	19,93	39,12%	19,51	44,51%	22,08	43,00%
Fossil Fuels U.O. ²	0,14	0,30%	0,14	0,27%	0,14	0,32%	0,41	0,80%
Sum of Fossil Fuels	28,61	61,86%	31,53	61,89%	31,10	70,97%	35,69	69,52%
Nuclear	0,00	0%	0,00	0,00%	0,00	0,00%	2,36	4,60%
Solar	4,47	9,67%	4,56	8,94%	4,40	10,05%	4,61	8,98%
Wind	9,41	20,35%	9,63	18,90%	6,13	13,98%	6,40	12,46%
Hydro	3,33	7,19%	4,69	9,21%	1,65	3,77%	1,67	3,26%
Biomass	0,43	0,93%	0,49	0,95%	0,49	1,11%	0,56	1,09%
Geothermal	0,00	0%	0,05	0,10%	0,05	0,12%	0,05	0,10%
RES U.O. ²	0,00	0%	0,00	0,00%	0,00	0,00%	0,00	0,00%
Sum of RES	17,64	38,14%	19,41	38,11%	12,72	29,03%	13,29	25,89%
Total	46,25	100,00%	50,94	100,00%	47,58	100,00%	55,26	100,00%

¹ HE-CHP Production with Natural Gas as fuel source is included.

² Unspecified Origin