

# SHARES tool 2018

## Short Assessment of Renewable Energy Sources

v2018.031219

Please select your country in the box below:

ktoe (thousand tonnes of oil equivalent) ▾

Greece

eurostat 

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>Electricity</b>																	
Hydro	304,6	322,6	339,9	342,7	350,3	367,4	387,8	382,3	384,3	396,8	413,3	424,9	443,2	448,0	452,9	0,0	0,0
Wind	100,2	113,3	144,2	179,4	201,1	229,6	249,7	288,5	332,6	348,5	357,0	386,6	426,8	475,9	523,3	0,0	0,0
Solar	0,1	0,1	0,1	0,1	0,5	4,3	13,6	52,5	145,7	313,7	326,0	335,3	337,9	343,2	325,9	0,0	0,0
Solid biofuels	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,1	0,4	0,8	1,0	0,0	0,0
All other renewables	10,7	10,4	9,8	15,8	16,5	18,7	16,3	17,8	17,6	18,6	18,9	19,8	23,2	25,8	27,2	0,0	0,0
<b>Total (RES-E numerator)</b>	<b>415,6</b>	<b>446,3</b>	<b>494,0</b>	<b>538,0</b>	<b>568,4</b>	<b>620,0</b>	<b>667,4</b>	<b>741,0</b>	<b>880,2</b>	<b>1.077,6</b>	<b>1.115,2</b>	<b>1.166,8</b>	<b>1.231,5</b>	<b>1.293,8</b>	<b>1.330,3</b>	<b>0,0</b>	<b>0,0</b>

Note: Hydro is normalised and excluding pumping. Wind is normalised. Solar includes solar photovoltaics and solar thermal generation. All other renewables includes electricity generation from gaseous and liquid biofuels, renewable municipal waste, geothermal, and tide, wave & ocean.

### Electricity generation from all sources

Total (RES-E denominator)	5.299,5	5.434,8	5.535,8	5.766,6	5.892,1	5.628,6	5.423,3	5.365,8	5.378,8	5.073,2	5.087,0	5.282,0	5.435,3	5.281,8	5.118,2	0,0	0,0
<b>RES-E [%]</b>	<b>7,84%</b>	<b>8,21%</b>	<b>8,92%</b>	<b>9,33%</b>	<b>9,65%</b>	<b>11,02%</b>	<b>12,31%</b>	<b>13,81%</b>	<b>16,36%</b>	<b>21,24%</b>	<b>21,92%</b>	<b>22,09%</b>	<b>22,66%</b>	<b>24,49%</b>	<b>25,99%</b>		

### Transport

Ren. electricity in road transport	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,4	0,5	0,5	0,5	0,6	0,6	0,0	0,0
Ren. electricity in rail transport	1,3	0,7	1,0	1,4	1,1	1,2	0,7	0,9	1,0	2,0	3,4	4,0	3,8	4,1	4,6	0,0	0,0
Ren. electricity in all other transport modes	1,6	1,8	1,7	1,8	2,0	2,0	2,0	2,1	2,2	2,6	3,0	3,9	0,0	0,0	0,0	0,0	0,0
Compliant biofuels*	0,0	0,0	44,8	82,6	66,8	75,6	123,9	19,5	24,7	23,0	30,0	22,1	49,5	164,2	158,8	0,0	0,0
Annex IX	x	x	x	x	x	x	x	11,5	15,0	15,0	20,3	15,0	20,3	23,3	34,4	0,0	0,0
3(4)d first paragraph	x	x	x	x	x	x	x	0,0	0,0	0,0	0,0	0,0	23,0	133,4	115,3	0,0	0,0
3(4)d third paragraph subsection (i) and (ii)	x	x	x	x	x	x	x	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
other compliant biofuels	x	x	x	x	x	x	x	8,0	9,7	8,0	9,7	7,1	6,2	7,4	9,1	0,0	0,0
Non-compliant biofuels	0,0	0,0	0,0	0,0	0,0	0,0	0,0	83,3	78,1	98,3	104,5	119,4	99,9	1,6	0,0	0,0	0,0
Other renewable energies	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
<b>Total (RES-T numerator with multipliers)</b>	<b>4,9</b>	<b>3,5</b>	<b>48,9</b>	<b>87,9</b>	<b>71,7</b>	<b>80,7</b>	<b>127,6</b>	<b>35,4</b>	<b>44,3</b>	<b>47,6</b>	<b>64,4</b>	<b>53,7</b>	<b>82,2</b>	<b>200,6</b>	<b>207,6</b>	<b>0,0</b>	<b>0,0</b>

\* In period 2004-2010 all consumed biofuels are included in this category; as of 2011 only those compliant with Articles 17 and 18 of Directive 2009/28/EC.

### Fuel used in transport (as defined in Article 3)

Total (RES-T denominator with multipliers)	6.324,4	6.499,8	6.718,0	6.966,9	6.795,6	7.366,8	6.678,8	5.963,9	4.954,8	4.926,0	4.928,6	4.972,0	5.092,9	5.022,8	5.060,3	0,0	0,0
<b>RES-T [%]</b>	<b>0,08%</b>	<b>0,05%</b>	<b>0,73%</b>	<b>1,26%</b>	<b>1,05%</b>	<b>1,10%</b>	<b>1,91%</b>	<b>0,59%</b>	<b>0,89%</b>	<b>0,97%</b>	<b>1,31%</b>	<b>1,08%</b>	<b>1,61%</b>	<b>3,99%</b>	<b>4,10%</b>		

Note: All calculation provisions set out in Directive 2009/28/EC are applied to the total numerator and the total denominator

### Heating and cooling

Final energy consumption	1.106,0	1.136,5	1.124,9	1.257,4	1.174,6	1.105,5	1.124,7	1.350,1	1.449,8	1.244,4	1.249,2	1.341,2	1.184,7	1.201,9	1.199,5	0,0	0,0
Derived heat	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
Heat pumps	0,0	0,0	0,0	0,0	0,0	59,2	72,8	82,8	101,9	131,6	177,7	218,4	255,5	289,9	323,8	0,0	0,0
<b>Total (RES-H&amp;C numerator)</b>	<b>1.106,0</b>	<b>1.136,5</b>	<b>1.124,9</b>	<b>1.257,4</b>	<b>1.174,6</b>	<b>1.164,7</b>	<b>1.197,4</b>	<b>1.432,9</b>	<b>1.551,7</b>	<b>1.376,0</b>	<b>1.426,8</b>	<b>1.559,5</b>	<b>1.440,2</b>	<b>1.491,9</b>	<b>1.523,3</b>	<b>0,0</b>	<b>0,0</b>

### All fuel consumed for heating and cooling

Total (RES-H&C denominator)	8.213,6	8.491,2	8.590,4	8.567,8	7.980,6	6.752,8	6.417,9	7.124,9	6.432,9	5.018,8	5.119,5	5.872,5	5.665,2	5.281,6	5.028,9	0,0	0,0
<b>RES-H&amp;C [%]</b>	<b>13,47%</b>	<b>13,38%</b>	<b>13,10%</b>	<b>14,68%</b>	<b>14,72%</b>	<b>17,25%</b>	<b>18,66%</b>	<b>20,11%</b>	<b>24,12%</b>	<b>27,42%</b>	<b>27,87%</b>	<b>26,56%</b>	<b>25,42%</b>	<b>28,25%</b>	<b>30,29%</b>		

Note: total includes all elements of "gross final consumption of energy" other than electricity and for other purposes than transport

### Article 5: Gross final consumption of energy from renewable sources

(a) electricity	412,7	443,9	491,4	534,8	565,2	616,8	664,8	738,0	877,0	1.072,6	1.108,3	1.158,3	1.227,1	1.289,1	1.325,1	0,0	0,0
(b) heating and cooling	1.106,0	1.136,5	1.124,9	1.257,4	1.174,6	1.164,7	1.197,4	1.432,9	1.551,7	1.376,0	1.426,8	1.559,5	1.440,2	1.491,9	1.523,3	0,0	0,0
(c) transport	2,9	2,4	47,5	85,8	70,0	78,8	126,6	22,5	27,9	28,0	37,0	30,6	53,9	168,8	163,9	0,0	0,0
<b>(a) + (b) + (c)</b>	<b>1.521,6</b>	<b>1.582,8</b>	<b>1.663,8</b>	<b>1.878,0</b>	<b>1.809,8</b>	<b>1.860,3</b>	<b>1.988,8</b>	<b>2.193,4</b>	<b>2.456,6</b>	<b>2.476,6</b>	<b>2.572,1</b>	<b>2.748,4</b>	<b>2.721,2</b>	<b>2.949,8</b>	<b>3.012,3</b>	<b>0,0</b>	<b>0,0</b>

ktoe (thousand tonnes of oil equivalent) ▾

Greece



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
(a) + (b) + (c) adjusted with 7% limit	1.521,6	1.582,8	1.663,8	1.878,0	1.809,8	1.860,3	1.988,8	2.193,4	2.456,6	2.476,6	2.572,1	2.748,4	2.721,2	2.949,8	3.012,3	0,0	0,0
Note: electricity used in transport is included in transport and thus not included in electricity																	
<b>Articles 6-11: Statistical Transfers &amp; Joint Projects</b>																	
total amount to be added	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
total amount to be deducted	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
<b>Total (RES numerator)</b>	<b>1.521,6</b>	<b>1.582,8</b>	<b>1.663,8</b>	<b>1.878,0</b>	<b>1.809,8</b>	<b>1.860,3</b>	<b>1.988,8</b>	<b>2.193,4</b>	<b>2.456,6</b>	<b>2.476,6</b>	<b>2.572,1</b>	<b>2.748,4</b>	<b>2.721,2</b>	<b>2.949,8</b>	<b>3.012,3</b>	<b>0,0</b>	<b>0,0</b>
<b>Article 2 (f): Gross final consumption of energy</b>																	
GFCoE	21.247,1	21.751,0	22.309,3	22.767,3	22.118,1	21.248,8	19.662,3	19.584,6	17.775,7	16.027,9	16.222,8	17.298,0	17.425,7	16.881,7	16.627,6	0,0	0,0
<b>Article 5 (6): Aviation adjustment</b>																	
Total before adjustment	21.247,1	21.751,0	22.309,3	22.767,3	22.118,1	21.308,0	19.735,0	19.667,4	17.877,6	16.159,4	16.400,5	17.516,4	17.681,3	17.171,6	16.951,4	0,0	0,0
<b>Total (RES denominator)</b>	<b>21.247,1</b>	<b>21.751,0</b>	<b>22.309,3</b>	<b>22.767,3</b>	<b>22.115,7</b>	<b>21.308,0</b>	<b>19.735,0</b>	<b>19.667,4</b>	<b>17.877,6</b>	<b>16.159,4</b>	<b>16.400,5</b>	<b>17.516,4</b>	<b>17.681,3</b>	<b>17.051,1</b>	<b>16.687,4</b>	<b>0,0</b>	<b>0,0</b>
<b>RES [%]</b>	<b>7,16%</b>	<b>7,28%</b>	<b>7,46%</b>	<b>8,25%</b>	<b>8,18%</b>	<b>8,73%</b>	<b>10,08%</b>	<b>11,15%</b>	<b>13,74%</b>	<b>15,33%</b>	<b>15,68%</b>	<b>15,69%</b>	<b>15,39%</b>	<b>17,30%</b>	<b>18,05%</b>		

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S <sub>2005</sub>	Indicative Trajectory				Target
	2011-2012	2013-2014	2015-2016	2017-2018	
6,9%	9,1%	10,2%	11,9%	14,1%	18,0%



## REMARKS

Please include here important remarks.

The difference between the quantity of biodiesel for 2017 as depicted in cells AI10 and AI43 of TRANSPORT sheet can be justified not due to the unsustainable quantity of biodiesel, but due to the different procedures, which are implemented in order to collect the required data for OIL questionnaire and for the identification of the sustainable biofuels in accordance with the recorded feedstocks.





Greece

2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020

### Accounting of energy from heat pumps: ANNEX VII

in effect of the Commission decision C(2013) 1082  
establishing the guidelines for Member States on calculating renewable energy from heat pumps from different heat pump technologies pursuant to Article 5 of Directive 2009/28/EC

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Renewable heat captured [GWh]	0.00	0.00	0.00	0.00	0.00	688.97	846.29	962.67	1.184.64	1.530.05	2.066.09	2.539.69	2.971.70	3.371.91	3.765.43	0.00	0.00
other renewable heat captured by heat pumps [GWh]	0.00	0.00	0.00	0.00	0.00	688.97	846.29	962.67	1.184.64	1.530.05	2.066.09	2.539.69	2.971.70	3.371.91	3.765.43	0.00	0.00





	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
TOTAL GFCoE [ktoe]	1.101,4	1.139,5	1.047,3	1.084,4	1.055,4	1.050,2	1.024,0	957,1	946,4	752,4	877,7

Net calorific values - Used in blast furnaces

Anthracite											
Coking coal											
Other bituminous coal											
Sub-bituminous coal											
Lignite											
Patent fuel											
Coke Oven Coke											
Gas Coke											
Coal tar											
BKB											
Peat											
Peat products											
Oil shale and oil sands											

Gross calorific values - Used in blast furnaces

Anthracite											
Coking coal											
Other bituminous coal											
Sub-bituminous coal											
Lignite											
Patent fuel											
Coke Oven Coke											
Gas Coke											
Coal tar											
BKB											
Peat											
Peat products											
Oil shale and oil sands											

Net calorific values - Used in industry



Coke Oven Coke	29.302	29.302	29.302	29.302	29.302	29.302					
Gas Coke											
Coal tar											
BKB	15.279	15.279	15.279	15.279	15.279	15.279	15.279	15.279	15.279	15.279	15.279
Peat											
Peat products											
Oil shale and oil sands											

**Gross calorific values - For other uses**

Anthracite											
Coking coal											
Other bituminous coal	28.569	28.569	28.569	28.569	28.569	28.569	28.569	28.569	28.569	28.569	28.569
Sub-bituminous coal											
Lignite	6.027	5.753	5.551	5.713	5.710	5.726	5.286	5.757	5.867	5.692	5.657
Patent fuel											
Coke Oven Coke	29.302	29.302	29.302	29.302	29.302	29.302					
Gas Coke											
Coal tar											
BKB	16.043	16.043	16.043	16.043	16.043	16.043	16.043	16.043	16.043	16.043	16.043
Peat											
Peat products											
Oil shale and oil sands											

**Default calorific values for gap filling**

- Anthracite
- Coking coal
- Other bituminous coal
- Sub-bituminous coal
- Lignite
- Patent fuel
- Coke Oven Coke
- Gas Coke
- Coal tar
- BKB
- Peat
- Peat products





Oil shale and oil sands											
Gas works gas											
Coke Oven gas											
Blast furnace gas											
Other recovered gases											

**Industry Sector - Total**

Anthracite											
Coking coal											
Other bituminous coal	1.378	1.476	1.384	1.353	1.366	1.364	1.279	1.204	1.256	1.027	1.115
Sub-bituminous coal											
Lignite	515	432	379	552	406	408	503	418	362	235	381
Patent fuel											
Coke Oven Coke	41	25	19	16	17	12	15	20	3	1	1
Gas Coke											
Coal tar											
BKB	90	75	1								79
Peat											
Peat products											
Oil shale and oil sands											
Gas works gas	352	318	272	284	271	293	293	237			
Coke Oven gas											
Blast furnace gas											
Other recovered gases											

**Other Sectors - Total**

Anthracite											
Coking coal											
Other bituminous coal	1	1	2	1	6	1	4	6	5		
Sub-bituminous coal											
Lignite	78	125	121	130	104	123	138	109	102	75	83
Patent fuel											
Coke Oven Coke	1										
Gas Coke											
Coal tar											
BKB	37	47	42	41	40	37	37	44	35	34	38









15.279	15.279	15.279	13.942	14.573	13.228	14.201								

28.569	28.569	28.569	26.918	26.963	27.021	27.415		27.163						
5.561	5.354	5.303	5.670	5.459	5.544	5.561	5.438	5.540	5.690	5.627	5.631	5.502	5.520	5.405
16.043	16.043	16.043	14.957	15.652	14.314	15.414								

ANTCOAL 26.700,00 ANTCOAL  
 COKCOAL 28.200,00 COKCOAL  
 BITCOAL 25.800,00 BITCOAL  
 SUBCOAL 18.900,00 SUBCOAL  
 LIGNITE 11.900,00 LIGNITE  
 PATFUEL 20.700,00 PATFUEL  
 OVENCOKE 28.200,00 OVENCOKE  
 GASCOKE 28.200,00 GASCOKE  
 COALTAR 28.000,00 COALTAR  
 BKB 19.000,00 BKB  
 PEAT 9.760,00 PEAT  
 PEATPROD 16.000,00 PEATPROD


















































26.700	26.700	26.700	26.700	26.700
28.200	28.200	28.200	28.200	28.200
25.800	25.800	25.800	25.800	25.800
18.900	18.900	18.900	18.900	18.900
11.900	11.900	11.900	11.900	11.900
20.700	20.700	20.700	20.700	20.700
28.200	28.200	28.200	28.200	28.200
28.200	28.200	28.200	28.200	28.200
28.000	28.000	28.000	28.000	28.000
19.000	19.000	19.000	19.000	19.000
9.760	9.760	9.760	9.760	9.760
16.000	16.000	16.000	16.000	16.000
8.900	8.900	8.900	8.900	8.900
900	900	900	900	900
900	900	900	900	900
1.000	1.000	1.000	1.000	1.000
1.000	1.000	1.000	1.000	1.000

26.700	26.700	26.700	26.700	26.700
28.200	28.200	28.200	28.200	28.200
25.800	25.800	25.800	25.800	25.800
18.900	18.900	18.900	18.900	18.900
11.900	11.900	11.900	11.900	11.900
20.700	20.700	20.700	20.700	20.700
28.200	28.200	28.200	28.200	28.200
28.200	28.200	28.200	28.200	28.200
28.000	28.000	28.000	28.000	28.000
19.000	19.000	19.000	19.000	19.000
9.760	9.760	9.760	9.760	9.760
16.000	16.000	16.000	16.000	16.000
8.900	8.900	8.900	8.900	8.900
900	900	900	900	900













**1. Allgemeine Angaben**

Projektname	
Projektstart	
Projektende	
Projektleiter	
Beschreibung	
Ziele	
Maßnahmen	
Risikoprüfung	
Ergebnis	
Abgeschlossen	
Gepl. Budget	
Gepl. Kosten	
Gepl. Erlös	
Gepl. Gewinn	
Gepl. Umsatz	
Gepl. Brutto	
Gepl. Nettogewinn	
Gepl. EBITDA	
Gepl. EBIT	
Gepl. EBT	
Gepl. EAT	
Gepl. EAT nach Steuern	
Gepl. EAT nach Steuern und Steuern	
Gepl. EAT nach Steuern und Steuern (inkl. Abschreibung)	
Gepl. EAT nach Steuern und Steuern (inkl. Abschreibung und Zinsen)	
Gepl. EAT nach Steuern und Steuern (inkl. Abschreibung, Zinsen und Zinsen auf Zinsen)	

**2. Wirtschaftliche Kennzahlen**

Umsatz	
Bruttogewinn	
Bruttogewinnmarge	
Operativer Gewinn	
Operativer Gewinnmarge	
Finanzergebnis	
Finanzergebnismarge	
Ergebnis vor Steuern	
Ergebnis vor Steuernmarge	
Ergebnis nach Steuern	
Ergebnis nach Steuernmarge	
Ergebnis nach Steuern und Steuern	
Ergebnis nach Steuern und Steuernmarge	

**3. Liquidität und Kapitalstruktur**

Liquide Mittel	
Finanzierungsmittel	
Operative Mittel	
Operative Mittelmarge	
Finanzierungsmittelmarge	
Operative Mittelmarge (inkl. Abschreibung)	
Finanzierungsmittelmarge (inkl. Abschreibung)	
Operative Mittelmarge (inkl. Abschreibung und Zinsen)	
Finanzierungsmittelmarge (inkl. Abschreibung und Zinsen)	

**4. Brutto- und Nettogewinn**

Bruttogewinn	
Nettogewinn	
Bruttogewinnmarge	
Nettogewinnmarge	

**5. Operative Leistung**

Operativer Gewinn	
Operativer Gewinnmarge	
Operative Leistung	

**6. Finanzierung**

Finanzierungsmittel	
Finanzierungsmittelmarge	
Finanzierung	

**7. EBITDA, EBIT, EBT, EAT**

EBITDA	
EBIT	
EBT	
EAT	
EAT nach Steuern	
EAT nach Steuern und Steuern	
EAT nach Steuern und Steuern (inkl. Abschreibung)	
EAT nach Steuern und Steuern (inkl. Abschreibung und Zinsen)	
EAT nach Steuern und Steuern (inkl. Abschreibung, Zinsen und Zinsen auf Zinsen)	

**8. Abschreibung und Zinsen**

Abschreibung	
Zinsen	
Abschreibungmarge	
Zinsmarge	

**9. Zinsen und Zinsen auf Zinsen**

Zinsen	
Zinsen auf Zinsen	
Zinsenmarge	