

# TURKEY'S ENERGY FACTS AND FIGURES 2012



WORLD ENERGY COUNCIL  
DÜNYA ENERJİ KONSEYİ  
TÜRK MİLLİ KOMİTESİ

## PRIMARY ENERGY CONSUMPTION

2009	106.138 thousand tep
2010	109.266 thousand tep
2011	114.480 thousand tep (Natural Gas 32%, Coal 29%, Petroleum 27%, Renewables 5%, Hydraulic 4%, Waste 3%)

World primary energy consumption was 12.3 billion tep in 2011. Turkey was the 23<sup>rd</sup> country in the world in primary energy consumption.

## PRIMARY ENERGY PRODUCTION

2009	30,2 million tep
2010	32,5 million tep
2011	32,2 million tep

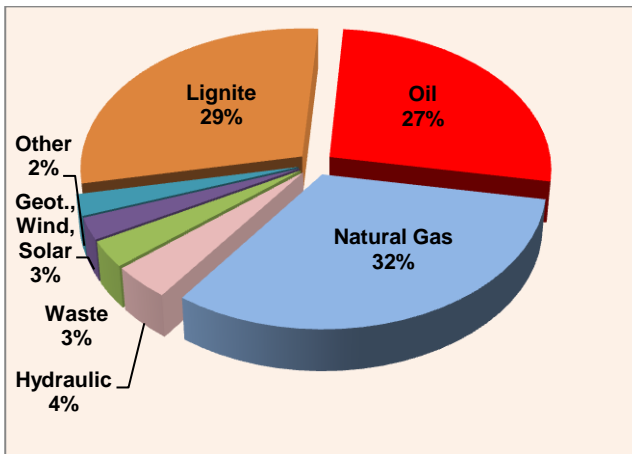
Primary energy production meets only 28% of consumption.

## ENERGY RESOURCES

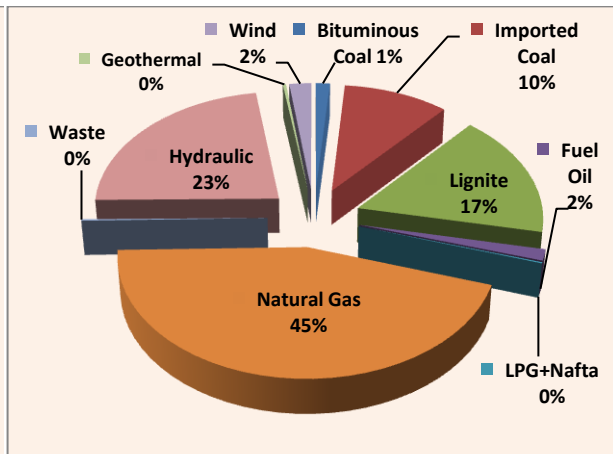
	Reserve	Production-2011
<b>Bituminous Coal (Hard Coal)</b>	523 million tons	2,6 million tons
<b>Lignite</b>	12,1 billion tons	72,5 million tons
<b>Crude Oil</b>	44,4 million tons	2,4 million ton
<b>Natural Gas</b>	7,1 billion m <sup>3</sup>	0,8 billion m <sup>3</sup>
<b>Hydraulic (economical potential)</b>	170.000 Gwh/Year	57.472 Gwh/Year
<b>Wind (economical potential; land 80%, offshore 20%)</b>	48.000 MW	4.726 Gwh
<b>Geothermal (potential)</b>	600 MW <sub>e</sub>	699 Gwh
<b>Solar (estimated potential)</b>	380 Gwh	-

Investigations for biomass and shale gas has not been completed yet.

### Primary Energy Consumption (2011)



### Electricity Consumption (2011)



## ENERGY IMPORTS OF TURKEY

2009	82 million tep
2010	87 million tep
2011	90 million tep (Bituminous Coal 15%, Crude Oil 36%, Natural Gas 36%, Others 13%)

## EXPENDITURES FOR ENERGY IMPORTS

2009	29,9 billion dolars (21% share in total imports)
2010	38,5 billion dolars (21% share in total imports)
2011	54 billion dolars (23% share in total imports)

## ELECTRICITY PRODUCTION, INSTALLED POWER AND INCREASE IN PEAK LOAD

	Installed Power (MW)	Increase (%)	Peak Load Consumption (MW)	Increase (%)	Production (Gwh)	Increase (%)
2002	31.846	12,4	21.006	7,1	132.553	4,5
2003	35.587	11,7	21.729	3,4	141.151	6,5
2004	36.824	3,5	23.485	8,1	150.018	6,3
2005	38.844	5,5	25.174	7,2	160.794	7,2
2006	40.565	4,4	27.594	9,6	174.637	8,6
2007	40.777	0,5	29.249	6,0	190.000	8,8
2008	41.817	2,6	30.517	4,3	198.085	4,3
2009	44.761	7,0	29.870	-2,1	194.079	-2,0
2010	49.524	10,6	33.392	11,8	210.434	8,8
2011	53.211	7,4	36.122	8,2	229.319	9,0

## ABOUT WORLD ENERGY COUNCIL TURKISH MEMBER COMMITTEE

Turkish Member Committee has been the member of the World Energy Council since 1949. The Member Committee is composed of members from the energy producing private and state owned companies, research organizations, universities, civil societies and individuals from the energy industries. Turkish Member Committee hosted the World Energy Congress in İstanbul in 1977. Now the Member Committee is proud to host the World Energy Congress again in İstanbul in 2016. It is expected that this unique opportunity in İstanbul will provide the participants to exchange views and develop new business cooperation's highlighted with a modern and comprehensive fair not only of Turkey, but of the region.

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