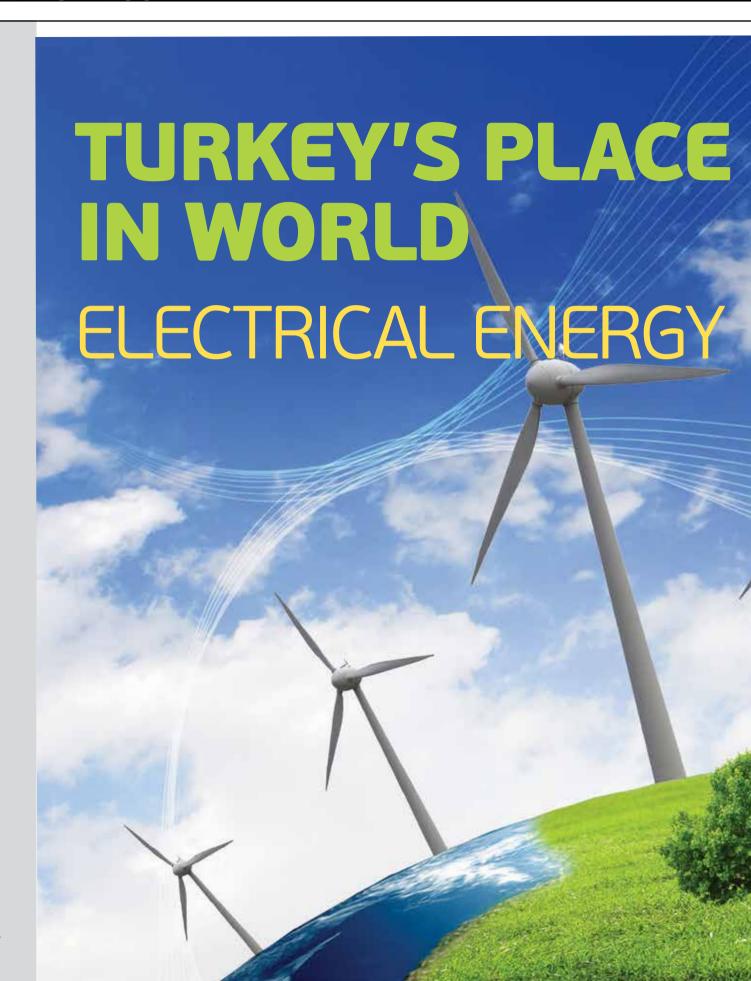
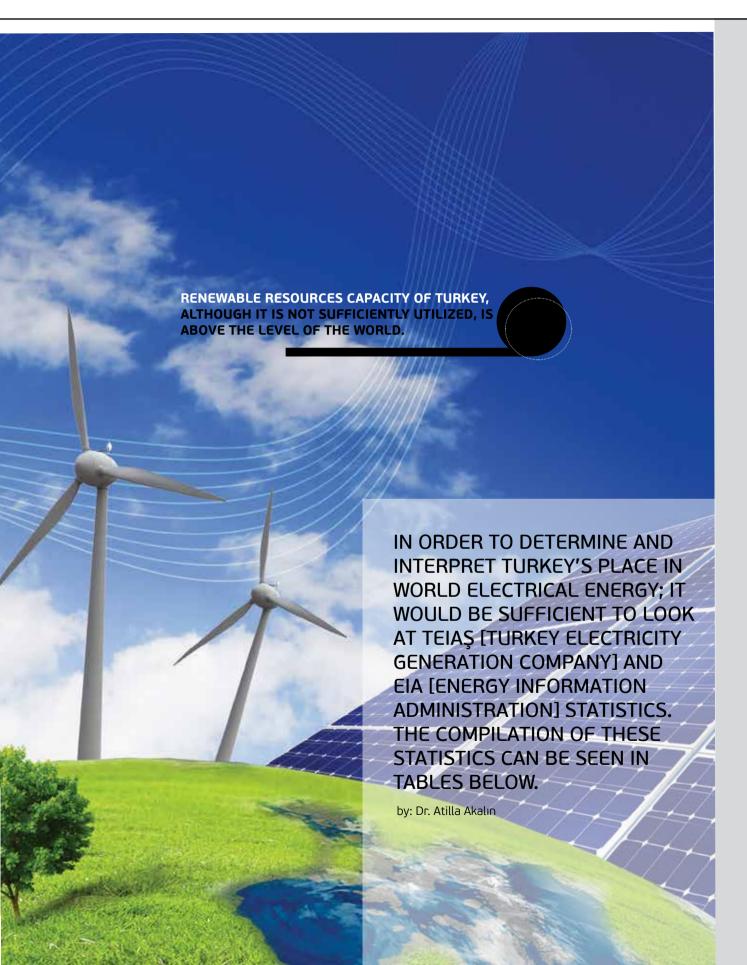
ELECTRICS PERSPECTIVE







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s can be seen from the data base (2012),
Turkey is producing 1.5 % (\$ 800 billion /
year) of World Gross Domestic Product
which is equivalent to (\$ 52 trillion / year).
Considering this, it can be argued that 76
million populated Turkey's Gross Domestic
Product per capita is around \$ 10,500 / year.
This value for world is \$ 7,500 / year, for U.S. \$
41,500 / year, for Japan, \$ 36,500 / year, for EU,

\$ 28,000 / year and finally for China is about \$ 3,000 / year. Turkey's share in World Electrical Power Production and Consumption is 1.1% (about 21,500 TWh / year) of the total volume of approximately 240 TWh / year of world production and consumption. This value for U.S. is about 4,000 TWh / year, for EU 3800 TWh / year, for China 4700 TWh / year and for Japan 1,000 TWh / year.

World -Eu/Europe and Turkey Electrical Energy Volume and Shares of Resources

2012		OVER Fossil Fuels			Nuclear Renewable Rhesources						
201		TOTAL	Coal	Oil	N. Gas	TOTAL	Resources	s Hydro	Wind	Others	TOTAL
WORLD	TWh / year	21.412	8.429	951	4.957	14.337	2.438	3.355	557	525	4.637
	%	100.0%	39.4%	4.4%	23.2%	67%	11.4%	16.6%	2.6%	2.5%	21.7%
US	TWh / year	4.074	1.547	20.0	1.218	2.785	770	281	137	101	519
US	%	100.0%	38.0%	0.5%	29.9%	68.4%	18.9%	6.9%	3.4%	2.5%	12.7%
	TWh / year	3.676	883	75.0	863	1.821	869	548	212	226	986
EU / Europe	%	100.0%	24.0%	2.0%	23.5%	49.5%	23.6%	14.9%	5.8%	6.1%	26.8%
CLUNIA	TWh / year	4.730	3.617	13.0	70.0	3.700	136	738	123	33	894
CHINA	%	100.0%	76.5%	0.3%	1.5%	78.2%	2.9%	15.6%	2.6%	0.7%	18.9%
LADANI	TWh / year	1.027	289	156	439	884	9.0	93.0	7.0	34	134
JAPAN	%	100.0%	28.1%	15.2%	42.7%	86.1%	0.9%	9.1%	0.7%	3.3%	13.0%
	TMb / year	240.0	600	1.6	105	1746	0.0	E7.0	E O	0.0	CE A
TURKEY	TWh / year	240.0	68.0	1.6	105	174.6	0.0	57.9	5.9	0.9	65.4
	%	100.0%	28.3%	0.7%	43.8%	72.8%	0.0%	24.1%	2.4%	0.4%	26.9%



2012		GDP*
WORLD	Billion\$ / year	51.734
US	Billion\$ / year	13.063
EU / Europe	Billion\$ / year	15.678
CHINA	Billion\$ / year	3.840
JAPAN	Billion\$ / year	4.646
TURKEY	Billion\$ / year	786

*World gross domestic product (GDP) by region expressed in

In 2012, the share of Renewable Resources (Hydro-Wind-Geothermal, etc.), in world's electricity production is approximately 22% (approximately 4650 TWh / year). This value is realized as 27% for Turkey. Renewable capacity of Turkey, although it is not sufficiently utilized, is above the level of the world.

The main reason for Turkey's high share, is the significant contribution of hydroelectric capacity (although Turkey is using nearly half of its economical hydroelectricity potential]. Despite the hydroelectrical capacity is not high, the share of renewable sources in Europe is 27%, in Europe, in U.S. 13%, in China 19% and in Japan around 13%.

Turkey, with its implementations from 2000s, has adopted the free market principles in electricity production and distribution and achieved important milestones. With these achievements, there are intense works on "Smart Grid" and "Pumped Hydroelectric Generation" projects. In addition, it shows serious efforts for the maximum utilization of its total of 220 TWh / year Renewable Resource Potential.

Based on the above values, [Although it would be more appropriate to take energy figures rather than electricity figures, just to give an idea, electricity production and consumption figures will be taken here] the world is consuming an average of 415 Wh electricity in order to produce \$1 gross domestic product, while Turkey is consuming 305 Wh for the production of 1 \$. For U.S., this figure is approximately 310 Wh, for EU 235 Wh, for Japan 220 Wh and for China 1230 Wh.

It can be stated that, Turkey's electricity utilization efficieny is above the world's average [although it is not enough] when it is considered the fact that Turkey with share of 1.5% World Economy, is producing and consuming 1.1% of world electricity. With these values, Turkey is not reaching the level of Japan and EU, however it is realized a much better efficiency rate than United States and China.

2012	
WORLD	
US	
EU / Europe	kWh / \$
CHINA	ķ
JAPAN	

	Electricity Consumed (kWh) for production of 1\$ GDP
	0.4139 %
	0.3119 %
* /	0.2345 %
	1.2318 %
	0.2211%
	0.3053 %

*World gross domestic product (GDP) by region expressed in market exchange rates

hare of Renewable Energy Resourcei
in Total Electricity Production

WORLD	21.7 %
US	12.7 %
EU / Europe	26.8 %
CHINA	18.9 %
JAPAN	13.0 %
TURKEY	27.2 %