

**Statement on Energy Efficiency and Renewable Energy – 2nd Preparatory
Meeting of the 21st Economic and Environmental Forum, Kyiv, 16-17 April 2013**

**ENERGY AND ENVIRONMENT MANAGEMENT OF
TURKEY**

The greenhouse gas emissions out of the energy production and consumption are considered as the main reason for the climatic change caused by human beings. An effective role undertaken for the struggle with the climatic change is important. In terms of demand, improvements parallel to the advancements in technology especially in the energy efficiency and in terms of supply, the spreading of the use of renewable energy resources alternative to the fossil fuels and the integration of nuclear energy into the composition of electricity energy production are the two main components of the energy policies of our ministry.

Within the framework of the Strategy Paper, by the year 2023, the 100th anniversary of the foundation of Our Republic, the integration of hydraulic potential into our economy, making our wind energy installed capacity reach up to 20,000 MW, and our geothermal energy installed capacity reach up to 600 MW have been aimed.

Environment targets in MENR Strategic Plan 2010-2014;

AIM -7

Minimizing the negative environmental impacts of the activities in the energy and natural resources area

Target 7.1 After the year 2014, reduction will be achieved in the rise of greenhouse gas emission arising from the energy sector operations.

Target 7.2 By the year 2015, the environmental compliance plan supervision will be conducted on 10 thousand mining operations in the mining market.

Strategies

- 1) In meeting the rising energy demand, the use of renewable energy resources and the effective use of energy, and the use of clean coal technologies will be regarded as the options of priority for the sustainability of the growth in the sector.
- 2) The greenhouse gas reduction potential of our country will be determined.
- 3) The studies on the influence of the climatic change on the energy sector and the precautions that need to be taken will be increased and studies will be conducted on the

precautious minimization of the risks and losses and awareness will be aroused among the society and investors.

4) For the period of application of the Kyoto Protocol and the policies after 2012 and the energy sector impact analysis studies will be conducted.

5) The utilization of the biomass/gas potentials of the infrastructure facilities for water, waste water and solid waste will be provided.

6) The effectiveness of the control and supervisions for compliance with the sustainable mining and sustainable environment principles in the mining operations will be continued increasingly.

7) Training and public awareness on environment-energy and climatic change will be conducted.

ENERGY EFFICIENCY STRATEGY PAPER 2012- 2023

It is targeted with this document to decrease at least 20% of amount of energy consumed per GDP of Turkey in the year 2023 (energy intensity).

STRATEGICAL PURPOSES

-To reduce energy intensity and energy losses in industry and services sectors

-To decrease energy demand and carbon emissions of the buildings; to promote sustainable environment friendly buildings using renewable energy sources

-To provide market transformation of energy efficient products

-To increase efficiency in production, transmission and distribution of electricity, to decrease energy losses and harmful environment emissions

-To reduce unit fossil fuel consumption of motorized vehicles, to increase share of public transportation in highway, sea road and railroad and to prevent unnecessary fuel consumption in urban transportation

-To use energy effectively and efficiently in public sector

-To strengthen institutional capacities and collaborations, to increase use of state of the art technology and awareness activities, to develop financial mechanisms except public financial institutions

ELECTRICITY ENERGY MARKET AND SUPPLY SECURITY STRATEGY PAPER 2009

Renewable Energy Aims in the Report;

Our primary target is to ensure that the share of renewable resources in electricity generation is increased up to at least 30% by 2023. This target will be subject to revision based on potential developments in technology, market, and resource potential. In this context, long term works will take into consideration the following targets:

Hydroelectric

We will ensure, by 2023 that our technically and economically available hydroelectric potential is entirely put to use in electricity generation.

Wind

Our target is to increase installed wind energy power to 20.000 MW by the year 2023.

Geothermal

We will ensure that our geothermal potential of 600 MW, which is presently established as suitable for electricity energy reduction, is entirely commissioned by 2023.

Solar

Our target is to generalize the use of solar energy for generating electricity, ensuring maximum utilization of country potential. Regarding the use of solar energy for electricity generation, technological advances will be closely followed and implemented. Within 2009, Law No. 5346 will be accordingly amended in order to encourage generation of electricity using solar energy.

OTHER RENEWABLE RESOURCES

Preparation of production plans will take into account potential changes in utilization potentials of other renewable energy resources based on technological and legislative developments, and in case of increases in utilization of such resources, share of fossil fuels, and particularly of imported resources, will be reduced accordingly.

So regarding as to these aims and policies;

1-) Our ministry is working about Energy models to plan energy environmental needs. In 2012 Ministry personnel has been trained on “The Long-Range Energy Alternatives Planning System (LEAP) Model”. LEAP Program has been shared with public on MENR official web site. Informal consequences of the model have been shared with public, private sector and NGO’s.

2-) Our ministry has supported The Legislation about following up of GHG’s” published by Ministry of Environment and Urbanization in 2012 . Thanks to this legislation in 2016 Turkey will be started to follow up GHGs by utilization of MRV method. To prepare the estimated new carbon mechanism in future for Turkey, our ministry participated the World Bank-PMR Project which is coordinated by MEU. Turkey is the one the first participating countries.

3) MEU, GDEA, TEİAŞ, TEİAŞ, EUAS has signed a protocol about disposal of PCBs which are used by EUAS and TEİAŞ. This project is funded by UN and not finished.