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RIA PLANNING PROCESS AND DEFINITION OF
PROBLEM FOR ELECTRICITY PRODUCTION BASED
ON SOLAR ENERGY IN TURKEY

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RIA PLANNING PROCESS AND TIME SCHEDULE

- The Arrangement for the use of Solar Energy should be prepared until the end of the year.
- Planning is very important for the efficient use of all processes of RIA to be prepared.
- RIA Planning provides a roadmap for the objectives to be achieved within the scope of the project at the end of the year.

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MAIN DATA AND VARIABLES TO DEFINE THE PROBLEM

RESEARCH FOR ALTERNATIVE ENERGY RESOURCES TO ELECTRICITY PRODUCTION IN THE LONG TERM

- In 2007 electricity production is obtained from three main resources, namely; natural gas with a share of 47,5%, coal with 20,7%, hydroelectricity with 18,2%. However;
Droughts in the last years ,
 - Dependence on foreign natural gas resources,
 - Price increases in fossil fuels,
 - Concerns resulting from climate changeIncreased the importance of alternative energy resources in electricity production.
- Decreasing dependence on foreign resources in energy by orienting to producing energy from renewable energy resources other than hydraulic has become one of the main government policies. For this reason, Law on Use of Renewable Energy Resources for Energy Production was adopted and entered into force on 10/5/2005.


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2. Solar Energy Potential in our Country in terms of Electricity Production

Turkey's potential to generate electricity from solar energy is identified as 380 billion kwh per year. This is nearly twice as much as the annual electricity production of Turkey.

- Turkey is in the second rank in terms of solar energy potential among European countries after Spain.
- In terms of using all this potential, we could not reach the phase of commercial use with the aim of electricity production in our country yet. At the moment there is just a limited use with the aims of demonstration and research and in Ministry of Environment and Forestry forest observation towers, highway hotlines, GSM base stations.


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3-There are two possible ways of making use of Solar Energy in Electricity Production;

- 1- Housings and workplaces generating their own electricity (Ex: Konya Metropolitan Municipality Recreation Spot Electricity Consumption)
- 2- Solar Energy Power Plants (There are two types of technology preferred according to cost per unit and land and climatic conditions)


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4. Advantages and Difficulties of Generating Electricity from Solar Energy

Advantages

- Enterprise expenditures are low compared to fossile fuels,
- Clean Energy,
- Consuming electricity at the place it is produced in case of production in housings and workplaces

Contribution to the development of sub industry branches and employment is higher compared to other resources; In solar energy, every megawatt provides permanent employment to 10 people; in the phase of investment to 20 people.

Hardships faced and some disadvantages

- The high level of first investment cost and lack of government aid and incentives, (guaranteed retrieval periods and rates are not attractive to the investors yet)
- Infrastructure of legislation has not been completed yet, (Licencing-evaluation)
- Problem of storage capacity resulting from lack of permanent energy production.

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Thank you...
