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Solar Energy Technologies
Engineering Ind. Tra. Co. Ltd.

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Centrally Controlled, Single-Axis Solar Tracking System is designed to increase the amount of electricity in solar power plants.

We plan to increase yearly energy about 25% more than solar power plants which are fixed a certain angle of photovoltaics panels. The system can also be applied concentrated solar power plants. When we consider the amount of the initial investment costs and yearly energy, amortization period of the power plants will be shortened.

Control and power unit of the system is a single point. In this way, the biggest advantage of the design, is the use of dozens of hardware instead of using a single motor and control unit. It also can be modified from a single point of failure in the event of a negativity that may occur will be corrected quickly. The mathematical algorithm used for tracking the sun which is independent from the external environment. Mechanical design will be completed, taking into consideration the most sensitive and least-cost.

As of October-2016, in Tedas, exceeding 4.000 MW solar energy plant projects were confirmed. And now, only 700 MW of these projects are providing electricity to the grid. This together with new unlicensed plants, licensed plants and energy specialized industrial zones are our domestic target market. Konya-Karapınar (4.000 MW) ve Niğde-Bor (1.300 MW) are the firsts of energy specialized industrial zones. The bids of 595 MW capacity licensed plants were made. In line with the goals of 2023, power of installation completed and ready to install plants will be about 10 GW. Our first market is unlicensed plants.

In Turkey, solar power plant projects apply in areas which are under 20 hectares because of CED (Environmental Impact Assessment) Report and reducing the initial investment cost. Optimal solar tracking system that the land is single axis solar tracking system. Dual axis solar tracking systems need around 30 hectares area for 1 MW power plant. Therefore, market of this system is not large.

During the installation of renewable energy plants is increasing with each passing day the importance given to local products. Now, generated electricity in plant is sold with an additional contribution by the plant used for domestic products. There are contributions in both concentrated and photovoltaic solar power plants.

Overseas countries are among the target markets of Africa and Asia come to the fore. Even in oil-rich countries to invest in solar energy has gained momentum with a variety of purposes. Such as Dubai, Morocco, Iran, Kazakhstan, Belarus began the high capacity power plant installations.

Team Information

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