

Introduction to YES ESCO

2016



YES energy services company has the noticeable potential to run several solar energy stations. Therefore, YES ESCO is ready to cooperate with other foreign companies and investors by providing services. As an illustration for these services, consultation, design, install and run solar systems. Furthermore, we can obtain a license relatively and keep track of affairs linked to the construction of the solar power plants.

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The potential of solar energy in Iran:

The devastating effects of fossil fuels on the environment, limited natural sources and increasing demand for energy across the world make renewable energy (RE) sources more important than in the past. Regarding this issue, solar energy plays a crucial and important role in providing clean and renewable energy.

As a study by the German government and the German Solar Industry Association reveals, Iran is potentially one of the best regions for solar energy, having three hundred sunny days per year on two-thirds of its land area. In light of these conditions, the report suggests photovoltaic electricity production in Iran could be doubled that of some developed European countries. It highlights Iran's "excellent solar irradiation and high electricity demand" as key indicators of high growth potential for Iran's solar energy sector. Additionally, the results of an article published in Renewable & Sustainable Energy Reviews shows that central and southern regions in Iran, except the coastal areas in the south, receive higher quantities of horizontal radiation.

With the removal of international sanctions, the Rouhani government envisions a greater role for nuclear and renewable energy in combatting the effects of climate change and has taken preliminary steps to promote the growth of renewable energy sources, like wind and solar power. In cooperation with the Renewable Energy Organization of Iran (SUNA), the government introduced guaranteed twenty-year power purchase contracts that offer developers an attractive fixed price for electricity produced from renewables. Also, It should be highlighted that the Iran government has targeted to install 7500 megawatt until the end of 2030.

In line with the noted issues, YES energy services company has the noticeable potential to run several solar energy stations. Therefore, YES energy services company is ready to cooperate with other foreign companies and investors by providing services. As an illustration for these services, consultation, design, install and run solar systems. Furthermore, we can obtain a license relatively and keep track of affairs linked to the construction of the solar power plants.



Energy Service Company (ESCO): ESCO is a company that in all energy consumption sectors, undertakes all project risks in order to guarantee a certain level of energy efficiency.

The main stages in the process of implementation of energy services companies include:

A: Energy services

1. Energy audit for the purpose of investment.
2. Determine the possible ways to optimize energy consumption.
3. Define project and its management.
4. Guarantee the results of the implementation of optimization.
5. Check and ensure compliance with regulations and standards.
6. Acquisition of equipment and their installation.
7. Maintenance of equipment for the duration of the contract.
8. Savings are continuously measured.
9. Financing according to the project.

B: Manage the construction and operation of solar power plant

1. Technical and economic feasibility
2. Check the possible environmental and geo-location power plant construction position (from the available data)
3. Review the ability to connect to the power grid and offer related solutions
4. Monitoring the conceptual design by project designers
 - ◆ Check and monitor the overall design plan and layout plant's Components
5. Monitoring the final design provided by contractor



6. Monitoring the economic analysis and estimation of project financing provided by the competent

7. Obtain licenses, documentation, necessary standards

8. Coordination

9. Set a separate contract for the operation after connecting the power plant to the grid

Work History:

- 1996 started as a construction company in Karaj.
- 2010 changed the field of activity to energy services company.
- Since 2011 being one of the first six energy services companies which were certified by SABA (energy efficiency organization of Iran).
- Since 2012 active in the field of optimization and energy management in buildings, hospitals, offices, banks, industry and....
- Since 2013 Solar Energy association's representative office in Alborz province and a legal member of the association.
- Since 2014 the formation of the solar system committee and begin work on the design and installation of solar systems.
- Since 2015:
 1. Continue to be focused on the theme of energy services.
 2. Set up the course of solar system design in collaboration with the Solar Energy Society and University of Applied Science and Technology.
 3. Being a consultant and designer of solar power systems for companies and investors.
 4. Energy Adviser for Alborz province industries in Eshtehard industrial park in cooperation with the Ministry of Industry, Mine and Trade,.
- **2016**
 1. Contract a 7 MW solar power plant construction as the contract manager with the private sector in Alborz Province
 2. Contract a 20 MW solar power plant construction as the contract manager with the cooperative sector in Tehran province