

PROJECT DESCRIPTION

The Başarı Solar PV Projects with a capacity of 48.946 MWe aim to exploit the solar power potential within the borders of Aksaray and Kırıkkale Provinces in the Central Anatolian Region and İzmir Province in the Aegean Region of Turkey. Project is composed of unlicensed 11 different solar Photovoltaic (PV) projects, each has installed capacity under 1 MW: 4 projects in Hamidiye-Alaca Neighbourhood of the Central District in Aksaray Province for a total of 3.99 MWe; 3 projects in Kurşunkaya Village of Keskin District in Kırıkkale Province for a total of 2.4 Mwe and 4 projects in Çakaltepe Village of Menderes District in İzmir Province for a total of 3.87 Mwe. The plant is expected to produce 20,570 MWh/year in the first full year of production.

Developed by



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ENVIRONMENTAL AND SOCIAL KEY ISSUES

- Potential pollution/contaminant emissions during construction/operation activities;
- Community/workers health and safety;
- Visual Impact Assessment;
- Land use (dry marginal or marginal agricultural lands);
- Stakeholder Engagement;
- Impacts on flora and fauna;
- No direct interaction with water surface area and protected area during project works;
- Within the borders of archeological site.

MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- "EIA Exemption" Decision for the Project obtained by related the Authority;
- Non-Agricultural Utilization Permit;
- Implementation of a formal EHS management system;
- Implementation of labor health and safety and working conditions plan/program;
- Health and safety for workers and the community;
- Land acquisition / renting processes;
- Stakeholder involvement and public disclosure during construction and operation;
- Preservation of environmental and social value of the area;
- Implementation of Visual Impact Assessment;
- Supervision of construction activities by environmental, health and safety experts;
- Post construction analysis, including flora - fauna monitoring,
- Preperation of 'Archaeological Chance Find Procedure'.

GENERAL INFORMATION

Project Location	Aksaray, Kırıkkale and İzmir Provinces (Central, Keskin and Menderes Districts)
Technology	PV Solar Power Plant
Plant Capacity	10.3 MWe
Annual Energy Production	20,570 MWh/year
Annual CO₂ Reduction	Not considered.

TIME SCHEDULE

Start of Construction	April 2017
Expected Commercial Operation	December 2017

FINANCIAL PARAMETERS

Total Project Cost	USD 13,326,561
MidSEFF Loan	USD 11,250,000
Payback Time	6.1 years
Internal Rate of Return	13.8 %