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PROJECT DESCRIPTION

The Zigana Solar PV Projects with a capacity of 10.59 MWe aim to exploit the solar power potential within the borders of Uşak and Afyon Provinces in the Aegean Region of Turkey. Projects capacities are arranged as follows; 3.54 MWe in Göğem Village, Uşak (as 4 un-licensed PV projects), 1.5 MWe Ahat Village, Uşak (as 2 un-licensed PV projects) and 5.5 MWe Ayvalı Village, Afyon (as 6 un-licensed PV projects). The plant is expected to produce 18,017 MWh/year of energy in the first full year of production. The energy produced will allow saving over 10,666 tCO₂/year.

ENVIRONMENTAL AND SOCIAL KEY ISSUES

- ⦿ Potential pollution/contaminant emissions during construction/operation activities;
- ⦿ Community/workers health and safety both during construction and operation phases;
- ⦿ Visual Impact Assessment;
- ⦿ Land use (dry marginal /marginal agricultural lands)
- ⦿ Stakeholder Engagement;
- ⦿ Impacts on flora and fauna;
- ⦿ Without any interaction with any water surface area and protected area during project works;
- ⦿ No cultural heritage site in the Project area.

MITIGATIONS/SUCCESSFUL IMPLEMENTATION

- ⦿ “EIA Exemption” Decision for the Project obtained by related 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.

GENERAL INFORMATION

Project Location	Uşak and Afyon Provinces (Ahat, Göğem and Ayvalı Villages)
Technology	PV Solar Power Plant
Plant Capacity	10.59 MWe
Annual Energy Production	18,017 MWh/year
Annual CO₂ Reduction	10,666 t CO ₂ /year

TIME SCHEDULE

Start of Construction	April 2017
Commercial Operation	November 2017

FINANCIAL PARAMETERS

Total Project Cost	EUR 13,352,298
MidSEFF Loan	EUR 10,756,544
Payback Time	8.69 years
Internal Rate of Return	8.28 %