

GÜN GÜNEŞ ENERJİSİ ELEKTRİK ÜRETİM SANAYİ VE TİCARET A.Ş.

ARISU SOLAR POWER PLANT

PROJECT INFORMATION NOTE

The energy demand of Türkiye is increasing rapidly due to industrialization, economical development and population growth. Since the local sources (natural gas, petroleum, etc.) required to generate electricity are inadequate, Türkiye is a foreign-dependent country in terms of energy.

Arisu Solar Power Plant is developed by Gün Güneş Enerjisi Elektrik Üretim Sanayi ve Ticaret A.Ş. The project is reducing the national energy deficit and development of local industries as it allows the use of local sources for energy generation to meet the increasing demands.

The purpose of the project is to generate clean energy by harnessing the solar power and providing the energy to the Turkish national grid. By implementing the project, investors also aim to reduce dependency to the fossil fuels thereby reducing the sources of environmental pollution. The project is a greenfield project.



Figure 1. Project Area on the Map

The proposed project is located in Arisu Neighbourhood in Tuşba district of Van province. The total area of the project is 749,050 m².

There are a total of 137,835 PV panels. Total installed capacity of the plant is 55.54 MWm/45 MWe. Total output of the plant will be limited at 45 MWe as per the capacity allowed in preliminary generation license with the help of software usage.

	Installed Capacity (MWe)	Emission Reduction (tCO ₂)	Electricity Generation (MWh/year)
Arisu Solar Power Plant	45	70,873	109,237

According to the calculations based on the amount of electricity generation, the project activity will significantly contribute to the environment, air quality and especially the reduction of greenhouse gases that cause climate change by reducing approximately 70,873 tons of carbon dioxide (CO₂) per year due to the use of renewable resources.

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SUSTAINABLE DEVELOPMENT EVALUATION FORM

Sustainable Development Indicators	Participant Comments		
	Positive	Negative	No Effect
Air quality (Sulfur dioxide, nitrogen oxides, soot, etc.)			
Water quality and quantity (Access to water resources)			
Soil quality (Fight against erosion, soil pollution, etc.)			
Other pollution sources (noise, light, etc. pollution sources)			
Biodiversity (Effect on protected species)			
Employment Quality (Working conditions, job security)			
Combating Poverty (Impact on standard of living, access to health services, etc.)			
Access to clean energy sources (Reliable, cheap energy, impact on energy imports)			
Personal and institutional capacity (Education, awareness raising)			
Contribution to employment and income level (New job opportunity, income increase)			
Balance of Payments (Reducing foreign dependency, increasing investment)			
Technology transfer and technological competence (Using, adapting, etc.)			

EVALUATOR INFORMATION	Name surname	
	Phone	
	District/Province	
	Institution/Duty	

What are the aspects that you find **positive** about the project?

What are the aspects that you find **negative** about the project?

CONTACT:

Project Developer:

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