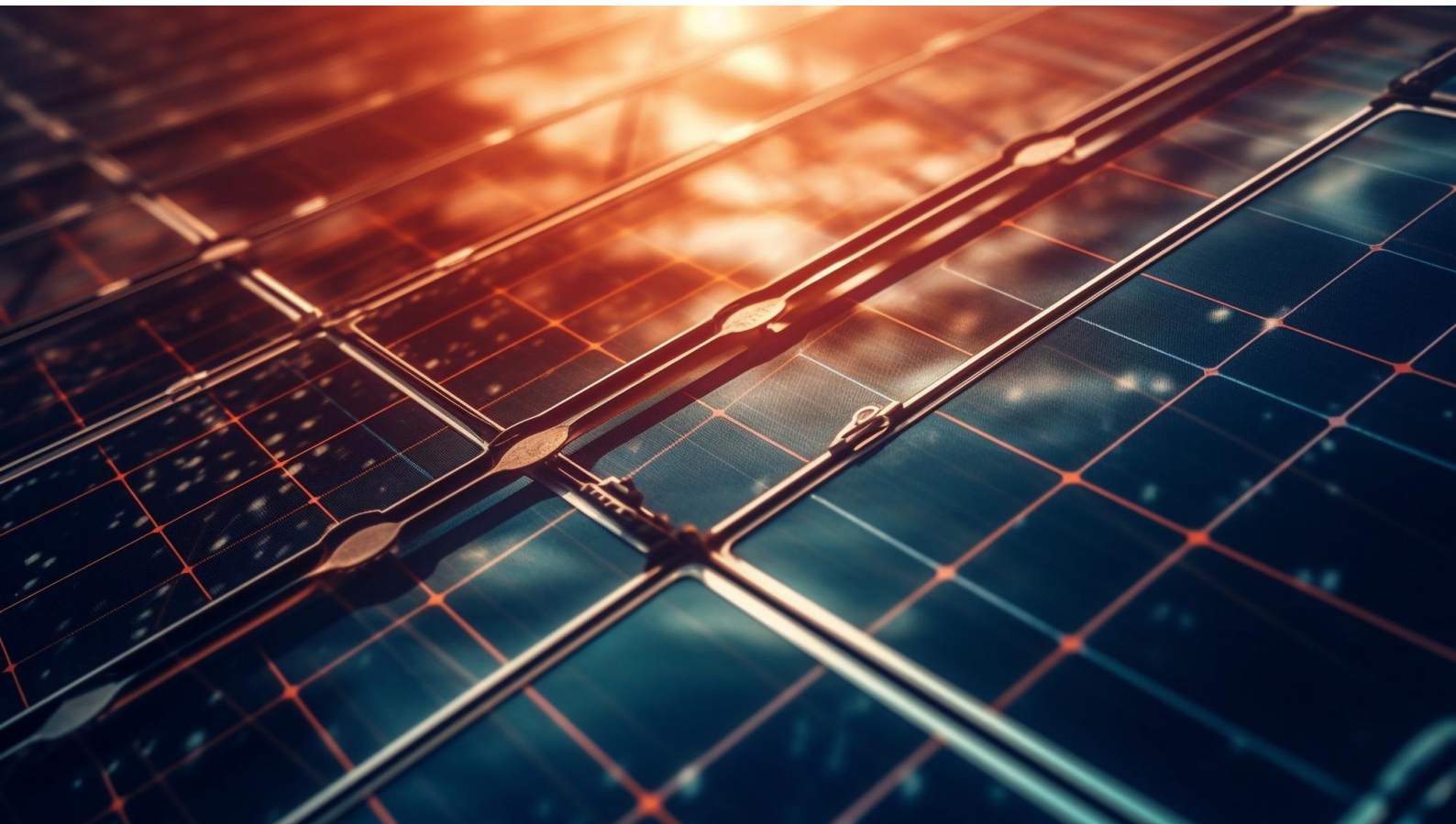


# 100MW PV Solar Photovoltaic Project + Battery energy storage system (BESS)





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This profile outlines a promising investment opportunity in a significant renewable energy project in Bulgaria, focusing on a utility-scale solar photovoltaic (PV) plant with battery energy storage system (BESS) co-generation capability.

The project, designated “**Project 1**”, is a large-scale energy development centered on a **100 MW/400 MWh BESS (Battery Energy Storage System) facility**. It includes a solar PV component with a base capacity of **100 MWp**, which is highly scalable due to reserved grid capacity, offering potential expansion up to **160 MWp**. The project is situated on a large tract of land under a long-term lease agreement and includes comprehensive technical and development documentation.

### Technical and Capacity Details

#### Land and Infrastructure

- **Total Land Area:** \$956,000~m<sup>2</sup>.
- **Ownership/Lease:** The land is owned by the Special Purpose Vehicle (SPV) and secured via a **35-year municipal lease contract**.
- **Topography:** Flat terrain with a 1-8% southward slope, ensuring no visibility obstructions.
- **Design:** Technical studies and designs for a **single-axis tracker system** are available.
- **Co-Generation:** The site offers an **Option BESS** to optimize peak pricing and has existing **nearby gas infrastructure** for potential hybrid solutions.

#### Grid Connection

The project offers flexible and secured grid connection options, with the right of passage included in the price.

- **On-site Substation:** A **110 kV transformation substation** is to be built on-site and will be owned by the SPV.
- **Connection Options:** **Option 1:** \$6.1~km\$ of underground cable to the existing EVN substation.

**Option 2:** \$1~km\$ of overhead line to a \$110~kV\$ power line

#### Energy Production (Estimated Annual)

**Fixed System:** \$137~GWh/year\$ (based on \$1,745~kWh/m^{2}\$ of irradiation).

**Monoaxial Tracker System:** \$177~GWh/year\$ (based on \$2,235~kWh/m^{2}\$ of irradiation).

#### TARGET PRICE

EUR 4,500,000

#### BUSINESS TYPE

Renewable Energy

#### COUNTRY

Bulgaria

#### BUSINESS ID

L#20251032

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