



Initiator

«MAIN GROUP
EUROPE Ltd»

Hydrogen production plant using renewable solar energy



Construction of a hydrogen production plant using renewable solar energy using solar panels.



Duration

2.5 years - development of project documentation, construction of power plant, electrolyzer and storage system
Works to expand the project (increase capacity) - another 1.5 years



Project goals

- generating electricity from renewable sources;
- Generation of environmentally safe electricity for further sale at a "green" tariff;
- reduction of greenhouse gas emissions from electricity generation.
- Planned capacity:
- solar power plant - 95 MW AC;
- water electrolyzer - 20 MW;
- storage systems - 20 MW.

Annual solar radiation level: 1,332 kWh/kWp.

Key Opportunities:

The location of the land in proximity to the waters of the Dnieper (800 m) creates a successful combination of solar and water potential for green hydrogen production.



Economic indicators of the project

Total project cost: 124 million euros



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Technical parameters of the project

Land plot characteristics:

- **area:** 6 land plots with a total area of 145 hectares;
- **Purpose:** for location, construction, operation and maintenance of buildings and structures of power generating enterprises, institutions and organizations;
- **cadastral number:** assigned;
- **disposer: owner,** the land plot is in the lease.

Engineering infrastructure:

- Water supply: water-pumping station - 100 m, the river - 800 m;
- Power supply: connection to 150 kW and 330 kW networks.

Logistics infrastructure:

- railway station - 0,5 km;
- Motor road of territorial importance - 0,2 km.

According to the project executed (solar power plant)

- Legal entity (Ltd.) with authorized capital of 1 mln;
- land lease agreement was signed;
- a detailed plan of the territory together with a strategic environmental assessment was agreed upon;
- solar station project was developed;
- Agreement on connection to the power grid and specifications have been signed.



Mechanism for cooperation

- own funds - 30%;
- potential investor - 70%.



Additional Information

The project has high potential for developed industries of the region, namely enterprises of metallurgical and metalworking industries, machine building, military-industrial complex, aircraft construction, rocket and space industry, chemical and petrochemical industry, etc., which are ready to introduce the use of green hydrogen in the production process.



Project Location:

Dnipropetrovsk region, Dnipro

DIA Dnipropetrovsk investment agency

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