



CONSTRUCTION OF 5 MW SOLAR POWER STATION



Initiator

MEGAVATY, Ltd.



The project involves the construction of solar power station with the use of solar panels on the land plot with an area of 10 hectares.

Planned capacity: 5 MW.

Solar-radiation level: 1.375 kW/m².

Key features:

- electricity sale on «green» tariff;
- «green» tariff is pegged to the Euro exchange rate;
- increase of the total share of renewable energy in total.

According to the project :

- land plot in private ownership;
- the solar power plant construction draft was prepared;
- a feasibility study has been developed;
- an agreement with «Ukrzaliznytsia» PJSC (Pridniprovska Railways) on connection to the electric network has been concluded;
- declaration for the construction beginning was received.



Project goals:

- electricity generation from renewable sources;
- generation of environmentally safe electricity for the further sale within a «green» tariff;
- reducing greenhouse gas emissions from electricity generation.
- creation of 8 new jobs



Project economic indicators

Required investment capital: \$ 5,6 mln



Net Present Value (NPV)	\$ 4 mln	Payback period- PP	5 years
Profitability index (PI)	1,69	EBITDA	\$21,2 mln
Internal Rate of return (IRR)	8 %	Common benefit per year:	\$1,5 mln



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Project technical parameters

Land plot characteristics:

- **area:** 10 ha (5 land plots of 2 ha);
- **intended purpose of the use:** power industry;
- **cadastral number:** 1223583800:01:001:0442;
- **leaseholder:** MEGAVATY, Ltd..

Engineering infrastructure:

- distance to the electric power substation «Mineralna» with capacity 150/35/10 is 1,5 km;
- electric power substation owner – «Ukrzaliznytsia» PJSC (Pridniprovska Railways).

Transport infrastructure:

distance to:

- European highway E50 – 1.5 km;
- paved road of Karabynivka village – 5 m;
- Mineralna railway station – 1.2 km;
- Dnipro city – 50 km
- Pavlograd city – 50 km.



Mechanisms for cooperation:

- proprietary funds – 30%;
- potential investor – 70% .



Additional information

"Green" tariffs for electricity produced from alternative sources for the period of martial law in Ukraine:

- payments under the "green" tariff during martial law are made, but the very model of payment for the sale of electricity generated by solar power plants has changed. The price for 1 kW of electricity sold is on average UAH 1.68;
- it is possible to build solar power plants during martial law, but only those who received the technical conditions before February 24, 2022 will be able to receive a contract for the sale of electricity under the terms of the "green" tariff, and new SPPs will be able to receive technical conditions only after the end of martial law in the country.

**The amount of payments will be determined by the formula: the tariff for the population (1.68 hryvnias/kWh) multiplied by the percentage of payment received from consumers in the region in the month of generation.*



Project location: Mezhyricka TC, Dnipropetrovsk region



Dnipropetrovsk Regional Investment Agency (DIA)

Address: 2, O. Paul Ave, office 538, the city of Dnipro, Ukraine, 49004 **Web:** www.dia.dp.gov.ua

Contact person: Halyna Savran

Tel.: +38 056 742 86 34

E-mail: savran.dia@gmail.com