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Staryi Sambir Municipal Water Supply and Sewerage System

Lviv Oblast

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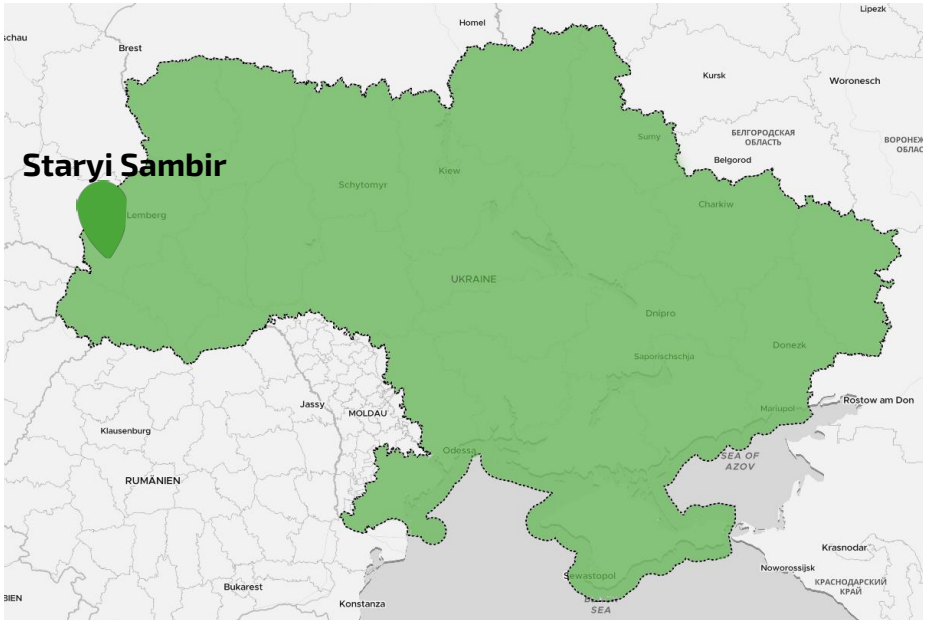
Location

Water intake No. 1 of the Municipal Enterprise "Staryi Sambir City Water Supply and Sewerage System"

This Utility serves more than 5,500 people and there is <u>no alternative source of water</u> supply for the city



Click here for further info

Staryj Sambir - Wikipedia

Why this project exactly?

In a city where water is only available for "a few hours at a time," solar power ensures that during daylight, the pumps can run more consistently. This allows the city to fill its reservoirs or maintain pressure even if the central grid is cut.

It solves the "mismatch" problem - where people **have water** but **no power**, or **power** but **no water** and people sometimes **don't have both water and power.**

Solar ensures that as long as the sun is up, the water supply has a dedicated power source.

The Municipal Enterprise “Staryi Sambir City Water Supply and Sewerage System” (Water Intake No. 1) serves as the **exclusive and sole source of centralized water supply** for the city of Staryi Sambir.

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Project impact

The multiple positive effects of this project

1. **Guaranteed Access to a Human Right:** As the **sole source of water**, this facility's stability directly prevents a total water blackout. The project ensures that even during grid failures, water pressure is maintained for drinking, cooking, and sanitation.
2. By generating power on-site, the water intake is **no longer 100% dependent** on the fragile national grid. This makes the city's critical infrastructure a "harder target" for energy disruptions.
3. Consistent water supply **prevents** the rise of **water-borne diseases** and **sanitary crises** that occur when pipes go dry and systems lose pressure (which can lead to groundwater infiltration).

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Hardfacts

Our goal: Energy independency

We install rooftop solar panels to enhance resilience against blackouts and build a sustainable infrastructure.

Solar Modules, DC	52,65 kW
inverter, AC	50 kW
Battery storage	0 kW

€16894	saved annually
≈10 hrs	of blackout covered
26,23 tons	of CO2 emissions avoided

956 MWh total power plant generation

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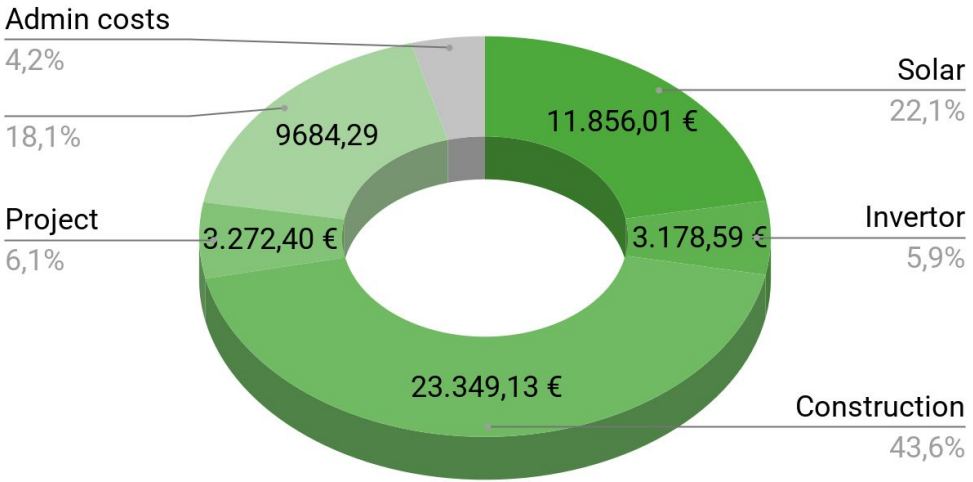
Project cost

Co-fincne of community - EUR 9684,29 - Remaining costs EUR 34209,87



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“The sustainable development of society will ensure the harmonious development of humanity without harming nature”

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