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Installation of renewable energy sources at the sewage treatment plant (STP) of the Water Supply and Sewerage Utility of the Svalyava City Council in Zakarpattia Oblast

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Location

Svalyava Water Utility

Svalyava is a city in western Ukraine, in the Mukachevo district of Zakarpattia Oblast, and the administrative center of the Svalyava community.

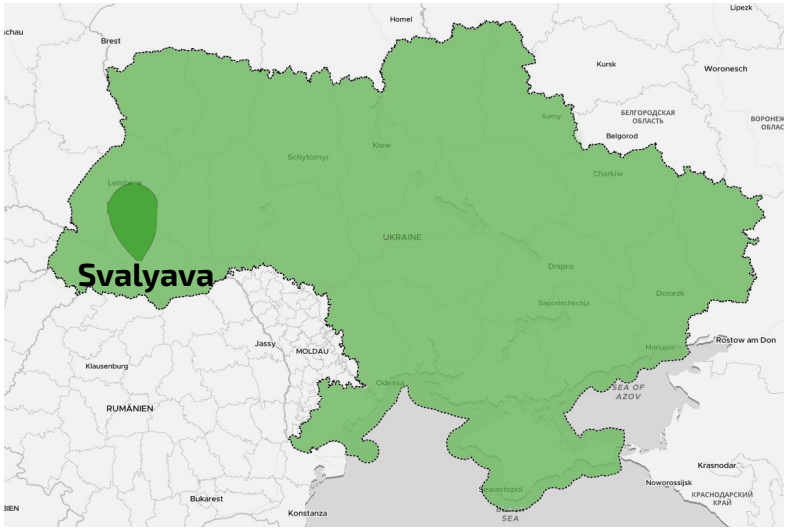
The municipal enterprise “Water Supply and Sewerage” was founded in 1991. The municipal enterprise provides centralized water supply and sewerage services to enterprises, organizations, institutions, and the population of Svalyava, Nelipino, and Rososh.

Serves: population – 5,220, enterprises, institutions, and organizations – 368.

This Utility serves about 13547 people

Click here for further info

Svalyava City Info



Why this project exactly?

The community experiences frequent power outages, occurring on average three times per day and up to fifteen times per week, with each outage lasting four to six hours. Although a 109 kW backup generator is available and technically covers 100% of electricity demand, its operation depends on fuel availability, regular maintenance, and technical limitations that prevent continuous long-term use.

During power outages, water supply and wastewater services are suspended or severely limited, leaving 13,547 residents without access to basic services. The shutdown of wastewater treatment facilities creates serious public health and environmental risks, including the potential discharge of untreated sewage into soil and water bodies.

While the community is located approximately 1,000 km from the frontline and does not face direct shelling, the war has increased pressure on local infrastructure due to the growing number of internally displaced persons and relocated businesses. This additional demand makes the system more vulnerable during energy disruptions.

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Project impact

The multiple positive effects of this project

1. The project requires installation of solar power plant for water utility.
2. The project will strengthen energy resilience and ensure the uninterrupted operation of critical water supply and wastewater services. By reducing reliance on fuel-based backup systems and minimizing operational interruptions, it will provide stable access to essential services for 13,547 residents.
3. The project will also reduce environmental risks by preventing potential emergency sewage discharges during outages. In addition, it will improve financial sustainability by lowering fuel expenses and maintenance pressure associated with generator use.
4. Overall, the initiative will enhance community resilience, protect public health, and provide a more reliable and sustainable energy solution during ongoing wartime challenges.

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Hardfacts

Our goal: Energy efficiency

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

Solar Modules, DC	57.4 kW
inverter, AC	50 kW
Annual generation	69.496 kWh

€ 3891.70	saved annually
13547	residents supplied
34 tons	of CO2 emissions avoided

1265 MWh total planned power plant generation

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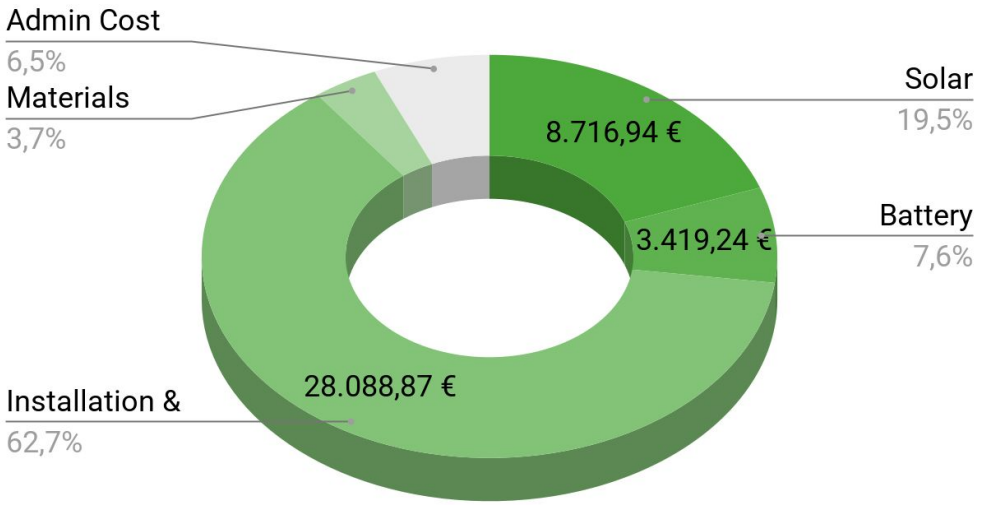
Project cost

Total cost of the project - EUR 44.795,47
Co-finace of community (if needed) - EUR 10,000
Remaining costs needed - EUR 34.795,47



Ecoclub

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

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