

Report on Activities for 2025

Charitable Organisation

'Charitable Foundation Glossary Eco Foundation'

Foreword

The year 2025 brought Ukraine the fourth year of full-scale war and the most demanding heating season of all this time. Between November 2025 and March 2026, the Russian Federation conducted attacks on Ukraine's energy infrastructure facilities involving over 1,000 missiles and over 27,000 Shahed-type attack drones. The fundamental change in tactics was the shift from striking large-scale generation to the systematic destruction of small distribution substations that supply schools, hospitals and water utilities. Whereas during October 2024 to April 2025 small substations accounted for roughly a third of strikes, in the following season that share rose to nearly 60 per cent.

For the school network this meant the regular loss of teaching hours, the shutdown of laboratory and computer equipment in the middle of lessons, the disruption of meal schedules in canteens, and the inability to operate as community centres in the evening hours. Point solutions (generators, power banks, one-off humanitarian deliveries) have exhausted their effectiveness margin. Diesel requires fuel and servicing, has a limited service life, and produces noise and emissions right next to the classrooms.

Against this background, the state defined its strategic vector: a shift from a centralised generation model to a distributed one, with more than 500 MW of new decentralised capacity to be commissioned in 2026. Hybrid solar power plants on the rooftops of social infrastructure facilities correspond precisely to this vector, since they create local nodes of autonomous energy supply that function independently of the integrity of district substations.

It is in this context that Glossary Eco Foundation moved from planning to action in 2025 and installed the first hybrid solar power plant in a Ukrainian school. This year became, for the Foundation, the starting point of its own infrastructure programme.

Address by the Founder

Dear friends, partners and benefactors,

The year 2025 became, for our Foundation, the year of transition from an idea to a proven result. Four years ago, on International Earth Day, we began with a simple conviction: real change starts with personal responsibility. Our first initiatives were financed solely from our own resources, because I believe one cannot call on others to do what one does not do oneself.

This year we took a step we had been working towards for several years. We installed the first hybrid solar power plant on the roof of a school in the town of Monastyryska in Ternopil oblast, and it began operating exactly when it was needed most, in the middle of the most demanding heating season of the war. 638 children continued to learn without interruption at a time when the lights were going out all around. For me, this is the answer to the question of why we do this.

No less important than the panels on the roof is what happens inside the school. We have always spoken of two inseparable vectors: infrastructure and education. A solar plant alongside which children see real generation data every day and understand the link between the sun, kilowatt-hours and emissions is an environment that raises a different generation. This year we prepared for publication our first children's book, *Vukhan-Klapan and the Red Mark*, and raised funds for it from donors so that part of the print run could reach schools, libraries and family-type children's homes free of charge. And on the eve of the winter holidays we launched the Christmas campaign 'Seraphim', a wooden angel whose sale proceeds go to 'School Under the Sun'.

2025 was also the year in which we opened the Foundation to external partners. We created a platform that any donor, whether private or institutional, can join by financing a specific school and receiving confirmation of the targeted use of funds. This transition opened the way to the next stage, a network of schools with hybrid solar plants.

There is still a great deal of work ahead. Our strategic goal is ambitious, 15 schools over three years, but the pilot proved that the model works both technically and financially. I thank the entire team for understanding why we do this, knowing how to do it, and doing it well.

**With respect and gratitude,
Anastasiia Tsybuliak
Founder, Glossary Eco Foundation**

Who We Are

Glossary Eco Foundation is a non-profit organisation that shapes environmental and climate culture in Ukraine through behaviour change, education and systemic infrastructure solutions. The Foundation was established on 22 April 2021, on International Earth Day.

The work of the Foundation rests on two mutually reinforcing vectors.

The first vector is environmental behaviour and conscious consumption. The Foundation supports initiatives to reduce the use of plastic, to build responsible supply chains, to move towards organic products and to adopt sustainable-living practices.

The second vector is climate action, combining climate education through publications and learning materials with practical work to reduce the real carbon footprint by installing solar power plants in schools.

The cross-cutting element of both vectors is the environmental education of children and young people as the foundation of change in future generations.

The Founder of the Foundation is Doctor of Economic Sciences Anastasiia Tsybuliak, author of more than 50 academic publications in the field of green economy and sustainable development, and ambassador of the international initiatives No More Plastic (France) and Dirt Charity (United Kingdom).

Our Team

Person	Position	Profile
Anastasiia Tsybuliak	Founder	Strategic leadership, conceptualisation of the educational component, representation of the Foundation before Ukrainian and international audiences
Viktoriia Ovcharova	Director	Overall leadership, corporate governance, representation, compliance with statutory objectives

Pavlo Orlov	Director, Strategy and Analytics	Strategic planning, partnership development, analytical accompaniment of projects
Iryna Sydorenko	Executive Director	Programme activity, financial planning and control, donor reporting
Kateryna Vasylieva	Operations Director	Delivery of project activities, project-cycle management, coordination of contractors
Andrii Shulhin	General Legal Counsel	Corporate law, digital technologies law, support of grant-financed projects
Madina Oktiabrynska	Designer	Graphic and communication design, visual identity, design of publications
Nata Nakonechna	SMM Manager	Social-media planning, content management, digital communications

The Foundation's team comprises eight members and combines professional experience in the public, international and commercial sectors. The functional model of the team consists of three levels: strategic leadership, operational delivery of programmes, and functional support.

What We Do

The Problem

The war has destroyed Ukraine's educational infrastructure. A school without backup power cannot guarantee a single full school day, since even one power outage disrupts the entire learning process. In peak months, blackouts last 8 to 10 hours a day, and in some regions reach a full day. A further challenge is the insufficient public awareness of the value of renewable energy sources.

The Solution

The Foundation installs hybrid solar power plants with energy-storage systems on the rooftops of educational institutions. Such a system diversifies the building's electricity supply through the use of three sources: solar generation for own consumption, storage systems, and the grid. Depending on the building's consumption, this solution makes it possible to:

- guarantee reliable electricity supply to the institution during outages;
- cover 20 to 50 per cent of annual electricity consumption;

- provide autonomous operation throughout a typical blackout.

An important and obligatory element of every project is the educational component. The installation of panels is part of the project, but not its completion. Each participating school also receives a learning programme on renewable energy, so that children understand how the plant works and can relate its operation to the wider context of climate change.

Key Figures for 2025

The year was marked by the launch of the first plant of the Foundation's own infrastructure programme. The plant was officially commissioned on 17 November 2025, and the verified parameters of the installed system are therefore set out below. The figures for annual generation, savings and emissions reduction are presented as projected (calculated): they are based on the equipment parameters and will be verified against the results of the first full year of operation.

Verified Results for 2025

Indicator	Value
Hybrid solar plants installed	1
Total installed capacity	51.5 kW
Photovoltaic modules	112 units (Tier 1)
Storage system capacity	20.5 kWh
Direct beneficiaries (pupils)	638
Date of official launch	17 November 2025
Children's books of the environmental series published	in preparation (publication planned for 2026)

Projected Plant Indicators (Calculated)

Indicator	Value
Projected annual generation	37,000–40,000 kWh
Expected coverage of consumption by own generation in the solar season	up to 75 per cent
Expected autonomous operation during outages	4–6 hours
Expected annual savings on electricity costs	approximately UAH 185,000 (around EUR 4,200)
Expected CO ₂ reduction	approximately 15 tonnes per year
Expected CO ₂ reduction over the service life (25 years)	approximately 375 tonnes

Pilot Project: Monastyryska Town School

In 2025 the Foundation began implementing the 'School Under the Sun' programme, a systemic initiative to install hybrid solar power plants in schools across Ukraine with an obligatory educational component. The first step was the pilot project at the General Secondary School of the town of Monastyryska in Ternopil oblast.

The Situation Before the Project

Like most Ukrainian schools, the institution depended entirely on the centralised grid. In peak months, outages lasted 8 to 10 hours a day. The learning process came to a halt, lighting and computer equipment switched off, and lessons with a projector and remote connections were interrupted. The backup petrol generator did not solve the problem, owing to the cost of fuel, its limited service life and the noise during lessons.

What Was Installed

A hybrid solar power plant with an energy-storage system was mounted on the school roof. The system operates in three modes: it powers the school from the sun during the day, charges the batteries for evening operation or for use during outages, and connects to the

general grid when own generation is insufficient. Switching between modes is automatic, without staff intervention and without interruption of supply.

What Changed

Since November 2025 the school has operated in a fundamentally different regime. The teaching timetable no longer depends on the state of the external grid: lessons take place in full, equipment does not switch off in the middle of work, and the internet connection is not interrupted. On days of nationwide outages, the school canteen prepares hot meals on time.

At a projected annual generation of 37,000–40,000 kWh, the expected annual saving is approximately UAH 185,000 on electricity costs at the tariff for budget institutions, while the CO₂ reduction is approximately 15 tonnes per year, or approximately 375 tonnes over the 25-year service life of the equipment. These figures are based on the parameters of the installed system and will be verified against the results of the first full year of operation.

Technical Parameters of the System

Parameter	Value
Location	Town of Monastyryska, Ternopil oblast
System type	Hybrid: solar generation + batteries + grid
Solar panels	Leapton Solar LP182M60-MH-460W
Panel technology	Monocrystalline silicon, Tier 1
Number of panels	112 units
Capacity of a single panel	460 W
Total installed capacity	51.5 kW
Inverter	Deye SUN-50K, 50 kW, three-phase, hybrid
Battery modules	4 × Deye SE-G5.1Pro-B

Battery technology	LiFePO ₄
Total storage capacity	20.5 kWh
Autonomous operation time	up to 4 hours (base load) / up to 6 hours (lighting and communications)
Online monitoring	real time
CO ₂ reduction (projected)	15 tonnes per year / 375 tonnes over 25 years
Annual saving (projected)	approximately UAH 185,000
Service life of the system	25 years
Date of launch	17 November 2025

How the Project Was Implemented

Period	Stage
May 2025	Preliminary energy audit of the school, signing of a memorandum with the community and the administration
Summer 2025	System design, agreement of the technical solution with the contractor
September 2025	Equipment supply
October 2025	Installation works, connection of the inverter and the storage system
17 November 2025	Official launch of the plant

The pilot was implemented in a full cycle: energy audit, engineering design, equipment supply, installation, commissioning, activation of online monitoring. The cycle has been fully tested and

takes 4 to 6 months from framework agreement to launch of the plant. Each subsequent project draws on this experience.

Educational Direction

Environmental and climate culture is created through knowledge, experience and habits, and this happens most effectively in childhood. For this reason the Foundation regards the educational direction as strategic rather than auxiliary.

The Book 'Vukhan-Klapan and the Red Mark': Preparation and Fundraising

Throughout 2025 the Foundation prepared for publication the first book of its environmental series, a detective tale about a hare with big ears and his best friend, the long-eared hedgehog Stepanko, who is listed in the Red Book. The book explains to children aged 7 to 10 why animals disappear and what each person can do today. It is not a scientific lecture, but a detective story grounded in real facts.

The series was conceived from the outset as an educational project with an open funding model. Over the course of the year the Foundation raised funds from donors to print the run, so that part of it could be given free of charge to schools, libraries and family-type children's homes. The book itself was published in early 2026, and its distribution is therefore described in more detail in the section on plans.

The Christmas Charity Campaign 'Seraphim'

On the eve of the 2025 winter holidays the Foundation launched a symbolic charity campaign. 'Seraphim' is a Christmas-tree decoration, a wooden Christmas angel made from Ukrainian wood. Every Seraphim sold directed funds towards the installation of solar panels in Ukrainian schools under the 'School Under the Sun' programme.

The idea of the campaign rests on a simple image: light is an action. The decoration not only glows on the tree, it helps to give real light to children who are learning despite war and darkness. The Seraphims were sold 'mute', unpainted, so that each family could breathe life into its own angel by hand and make it part of a home Christmas tradition. In this way a small cultural initiative brought together a family celebration, manual craft and support for the Foundation's flagship programme.

The Educational Component in Participating Schools

The online monitoring of each plant gives teachers ready-made teaching material: graphs of daily generation, seasonal dynamics, and data on consumption and storage. This is not an illustration in a textbook, but a living system that pupils observe continuously and to which they can put real questions.

What Has Been Done Over the Years of the Foundation's Work

The present year was preceded by consistent educational and awareness-raising work. The Foundation's first public initiative was the Star Flowerbed at the National Museum of the History of Ukraine, laid out in 2021, the ongoing care of which the Foundation took upon itself. The second was eco-journeys, a format for acquainting participants with farms that operate on the principles of organic agriculture. The Foundation also contributed to the development of organic production and local supply chains, in particular under the GLOSSARY Organic Products trademark.

Our Work in the Global Context

Glossary Eco Foundation pursues its mission in line with the United Nations Sustainable Development Goals. The Foundation's work is directly connected with four of them.

Goal	Content	Contribution of the Foundation
SDG 4	Quality education	Schools with reliable electricity supply ensure a continuous learning process
SDG 7	Affordable and clean energy	Hybrid solar plants reduce dependence on the central grid
SDG 11	Sustainable cities and communities	The programme covers schools in small towns, where infrastructure is most vulnerable
SDG 13	Climate action	Each plant, by its projected figures, avoids approximately 15 tonnes of CO ₂ annually

From a Private Initiative to an Open Platform

The principal change of 2025 was the opening of the Foundation to external donations and partnerships with business and civil-society organisations. Until then the Foundation had been financed solely from the personal funds of the Founder.

The transition to an open platform makes it possible to scale the programme. Each donor or partner can join the financing of a specific school, in full or in part, and receive confirmation of the targeted use of funds with photographic documentation. The project is delivered in partnership between the Foundation, the local community, the school and the contractor, with memoranda of cooperation signed before works begin.

This step created the conditions for the next stage of development, the formation of a network of schools with hybrid solar power plants.

Plans for the Future

The 'School Under the Sun' Programme 2026–2028

The Monastyriska school answered the question of whether the model of solar power plants on school rooftops works. The strategic goal for 2026–2028 is 15 schools with installed hybrid plants and an operating educational programme.

As part of preparing the next stage, the Foundation formed the concept of an expanded programme, which provides for the installation of hybrid solar plants in 15 general secondary education institutions across six oblasts of Ukraine, with the parallel introduction of an educational component.

The expected aggregate result of the programme for 15 schools: total installed capacity of 600–650 kW, annual generation of 450–520 MWh, CO₂ reduction of 175–190 tonnes per year, and coverage of 4,500–7,500 pupils by structured climate education.

The Book Series

The first result of the awareness-raising work of 2025 will be the publication of the book *Vukhan-Klapan and the Red Mark* in 2026. Part of the print run will be given free of charge to schools, libraries and family-type children's homes.

A second book, devoted to the theme of climate change, is planned for 2027, and a third, devoted to responsible consumption and renewable energy, for 2028.

Contacts

Glossary Eco Foundation

A non-profit organisation registered in Ukraine (EDRPOU 44592310, code 0036). Reporting is submitted to the State Tax Service and is publicly available.

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**SHAPING ENVIRONMENTAL AND CLIMATE CULTURE
IN UKRAINE**