

EU Danube Region Strategy

PA 8 LIGHTHOUSE

**GREEN TECH, CIRCULAR ECONOMY &
CIRCULAR BIOECONOMY**



Neo-Eco Ukraine

Signature Project: VALOBLAST



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**DANUBE REGION
strategy**
Prosperity through Diversity

Interreg Programme
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Ministry of
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Baden-Württemberg
Ministry of Economic Affairs,
Labour and Tourism

Basics

Name: Neo-Eco Ukraine

Country: Ukraine

Scoring: 48/50

Contact Person (Neo-Eco Ukraine):



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[Neo-Eco | Circular Economy Consultancy](#)

Key Project Data:



Since 2022



Funded by multiple funding sources including EU LIFE and Horizon Europe, as well as several country agency fundings: Swedish Institute, Helvetas (Switzerland), Green Danida (Denmark), FASEP and Région Sud (France) and CPVA (Lithuania)



About the project

Neo-Eco Ukraine, a sister company of Neo-Eco France, was set-up in May 2022 and has a dedicated team of eleven people in offices in Kyiv, Mykolaiv (Ukraine), and Lille (France).

Focus:

- Circular economy + sustainable construction
- Transformation of construction + industrial waste into low-carbon materials for Ukraine's recovery
- Contribution to Ukraine's economic + environmental sustainability by creating jobs + supporting local communities

Mission:

Promote **sustainable development** through **eco-friendly practices** and **community engagement**

Neo-Eco Ukraine



20+ projects since 2022



500,000 tons of debris recycled



95% overall recycle rate



5 eco products designed + created



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Activities

Neo-Eco has **17 years of experience** in the **circular economy** and **eco-materials** + is leading a range of **sustainable reconstruction** and **community regeneration projects** across Ukraine, including Kryvyi Rih, Mykolaiv, Odesa, Chernihiv, Sumy and Dnipropetrovsk.

Services:

Studies + Consultancy

e.g. waste management and asbestos abatement

Project Management Implementation

e.g. Design to build and sustainable reconstruction

Eco-materials

e.g. Biogas to energy and plastic for insulation

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Selection of Projects

Since 2022 Neo-Eco Ukraine has been involved in more than 20 projects in Ukraine.

Here is a selection of the projects and their impact:

Hostomel Rubble Recycling Pilot Project (completed)

Objective: Demonstrate a circular economy model for post-war reconstruction

Impact: 7,150 m³ landfill avoided; 1,735 tonnes CO₂ saved; €135,000 cost savings; Scalable methodology for Kyiv region

South Mykolaiv – Rubble Cleaning by Veterans (completed)

Objective: Combine sustainable reconstruction with social reintegration

Impact: 95% recycling rate, 20,000 m³ waste avoided; 4,000 tonnes CO₂ saved; €400,000 cost savings; 30 veterans engaged

Zelenyi Hai – Green Modular School and Bomb Shelter (until 2026)

Objective: Build circular, resilient infrastructure for children and communities

Impact: Supports 200 children; uses 10 local eco-materials; €2.7 million project value

TEPLO – Bio-based Soviet Building Retrofit (until 2026)

Objective: Improve energy efficiency + promote bio-based prefabrication

Impact: Energy savings + better living conditions; Skills development + circular construction showcase

Asbestos White Paper and Laboratory (ongoing)

Objective: Improve health + safety by addressing asbestos risks

Impact: National capability for asbestos detection + safe removal; Regulatory + training support

Low-Carbon Cement and Green Concrete (Mykolaiv) (until 2027)

Objective: Demonstrate climate-resilient construction materials

Impact: 80,000 tonnes CO₂ saved annually; 50,000 m³ waste diverted; 40 vulnerable people employed; scalable + cost-effective production

VALOBLAST Odesa project

→ More information on the next slides

VALOBLAST Odesa Project - Methodology

In the VALOBLAST project, Neo-Eco Ukraine is working on the transformation of contaminated or underused sediments into certified eco-construction materials in the Odesa region.

- 1. Quantify:** Identify + estimate the volume of sediment deposits in the Odesa Oblast using GIS mapping + hydrological data
- 2. Sampling:** Conduct representative sediment sampling at 3–5 strategic locations, including ports + river mouths
- 3. Analyse:** Perform laboratory tests on the collected samples → Results will guide the classification of sediments for different valorisation pathways
- 4. Formulate:** Develop sediment-based material formulations using additives such as geopolymers or lime
- 5. Test:** Pilot the use of sediment-based materials in small-scale constructions in Odesa
- 6. Implement:** Deploy the validated materials in real urban or infrastructure projects in Ukraine
- 7. Disseminate:** Transfer project results and methodologies to Marseille through targeted dissemination actions, including two workshops involving port authorities and SMEs

VALOBLAST Odesa Project - Impact

Neo-Eco Ukraine



INNOVATIVE

Transformation of **contaminated or underused sediments** into **certified eco-construction materials**

Combining advanced material formulation with circular economy principles



SUSTAINABLE

Replicable, step-by-step methodology

→ which can be applied in other ports or river regions



SCALABLE

Reducing dependence on **virgin raw materials**, lowering CO₂ emissions + **fostering local green value chains is broadly needed**

Making the model both environmentally + economically viable for long-term adoption



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Results (Neo-Eco Ukraine in general)

- Embed social + sustainable initiatives → to empower vulnerable communities during reconstruction
- Solid public outreach encouraging waste reduction, reuse, recycling, local jobs + cost savings
- Advocacy includes asbestos-safe recycling, territorial waste management + community-led circular methods
- Knowledge transfer + capacity building on local material valorisation + circular economy practices
- Regular innovation in line with latest technologies including AI + data collection

Barriers

- Ongoing war has impacted timelines
- Ukrainian regulations are not always in line with EU laws + standards
- Circular economy is still relatively new to Ukraine + first impressions by communities can be negative + in-depth knowledge sharing + resident awareness programmes are required