Ukraine2Power for PLUG-IN UKRAINE 2025

Strengthening Ukraine's Energy Resilience

ENERGY SECURITY DAMAGE

Russia has destroyed 9 GW of Ukraine's power generation capacity and occupied 18 GW

9 GW
is equivalent
to the total **electricity consumption of Austria**
or the output of **9 nuclear reactors**

× 9

WHAT WE DO

Ukraine2Power

We are a Ukrainian NGO created in response to Russia's attacks on Ukraine's energy system, which caused **blackouts** and left people **without heating, water, electricity, and communications**.

Our Goal

From providing emergency energy support — keeping hospitals, schools and kindergartens operational during blackouts — **to helping communities rebuild** with decentralised, clean and safe energy solutions, and promoting long-term energy resilience

WHAT WE DO

Our Achievments

We brought **1MWh** of energy storage to Ukraine — enough to keep the lights on in up to **1,000 homes at once.** That means less noise, less fuel, and less dependence on diesel generators — and more reliable energy when it's needed most.

100+
systems provided to 75 different institutions

16
systems provided to repair units of the Ukrainian Railways

8
systems provided to educational institutions

51
systems provided to hospitals

OUR RESULTS

U2P delivered autonomous energy systems to Ukrainian Railways hospitals and repair teams

After the Russian invasion, UZ (Ukrainian Railways) became **the main transportation artery of Ukraine,** fulfilling a humanitarian mission by evacuating people, means of transportation, delivering free food, serving as the primary mode of transportation in the country.

OUR RESULTS

Mobile, Clean Charging System for Hospitals

- Not handed over, but provided for free use
- For schools, kindergartens, hospitals, and other social institutions
- Operation, maintenance, and repair managed by Ukraine2Power
- Ukraine2Power will coordinate recycling
- Flexible deployment: it can be relocated to areas with higher demand

Thanks to its clear purpose and tangible impact, the project received support immediately after its launch from:

PHI NEO

WE

RTL WIR HELFEN KINDERN

MARQUARD & BAHLS

MERZ

STIFTUNG MERCATOR

More than €600,000 in funding secured

OUR FOCUS NOW

Energy Independent Schools & Kindergartens

Our goal is to equip schools with energy storage so they always have light, ventilation, safe shelters, and power — even during blackouts. Sustainable and safe.

Our solution: Energy storage systems and solar panels

- Reliable backup power for 5–6 hours
- Keeps classrooms lit, shelters functional, kitchens running, and ventilation working
- No diesel, no noise, no toxic fumes — fully independent from fuel generators
- Sustainable long-term investment: low maintenance, long lifespan

Building on this, we equipped the **Mariupol Lyceum in Kyiv** with a stationary 60 kWh battery and up to 20 kW of solar panels, creating a hybrid system for long-term resilience.

OUR FOCUS NOW

Solar Power for Healthcare

We install solar & storage systems at year-round facilities like hospitals, kindergartens, and boarding schools — where summer solar energy is fully used.

Why it matters

- Protects from blackouts
- Clean, reliable, fuel-free energy
- Long-term energy and cost savings
- Future-ready: grid connection to sell excess power

Our **very first solar power plant** was launched at **Rozhniativ Multidisciplinary Hospital** — a 51 kW rooftop system now supplies surgery, emergency care, ICU, and other critical departments with clean, renewable energy and can protect from blackouts, while building long-term resilience.

KEY TRENDS IN 2023-2025

Electric Vehicle Market Growth in Ukraine

Record EV Sales Despite War

In 2023, Ukraine saw a sharp increase in electric vehicle sales, with **over 54,800 EVs** purchased in the first 8 months — more than the total sold in 2022.
In August 2024, a record **6,714 EVs** were registered, an **80% increase** compared to 2023

Cost-Effective for Homeowners

Charging an EV at home is significantly cheaper than using gasoline, making it an attractive option. Government incentives like zero customs duty and VAT exemptions further encourage the adoption of EVs.

EVs as Backup Power

Amid power outages, EVs are being used for transportation but also to power homes. Many Ukrainian homeowners with private solar panels or backup generators charge their EVs at home, using them to store and provide energy during blackouts.

Increased Demand Due to Fuel Crisis

The rise in EV purchases is driven by concerns over fuel shortages and rising gasoline prices, as well as the possibility of new taxes. Western regions, like Volyn, saw EV registration growth of over 13% in August 2024

BUILDING FORWARD BETTER

Decentralized Generation for Ukraine's Energy and EV Infrastructure

Decentralized Generation

Why it's important to rebuild a decentralized energy system: it's harder to attack and also helps support reliable EV infrastructure and charging stations

New Regulations

At least 5% of parking spaces in new developments must have EV charging stations, but this is often not enforced

Growing Market

More EV charging stations are being installed at gas stations, public areas, and residential buildings, but the lack of coordination and standards is leading to overloading of old networks

BUILDING FORWARD BETTER

Priorities of the UNECE E-Mobility Plan

Focused on harmonized standards, smart charging, and location-efficient solutions to advance sustainable transport and energy.

#	Cluster/subcluster	Secretariat entity
01	Cluster B3: Harmonized norms and standards for smart charging solutions	Sustainable Transport
02	Cluster C: Quick guide on innovative practices for smart charging solutions	Sustainable Energy & Sustainable Transport
03	Cluster D: Develop a platform to map and promote convergence of existing de facto protocols into de jure standards	Sustainable Transport
04	Cluster E: Explore the concept of location efficiency and accessibility	Sustainable Energy

COLLABORATING

Energy In Ukraine Means Security

Join us in bringing sustainable energy solutions to Ukraine, that will serve communities for many years ahead

How we can collaborate

- Develop long-term solar and storage projects
- Share technical expertise and innovation
- Donate equipment or materials (e.g. PV modules, batteries)
- We are grateful for financial support — donations in Germany are tax-deductible

Donation page

COLLABORATING

Contact us

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