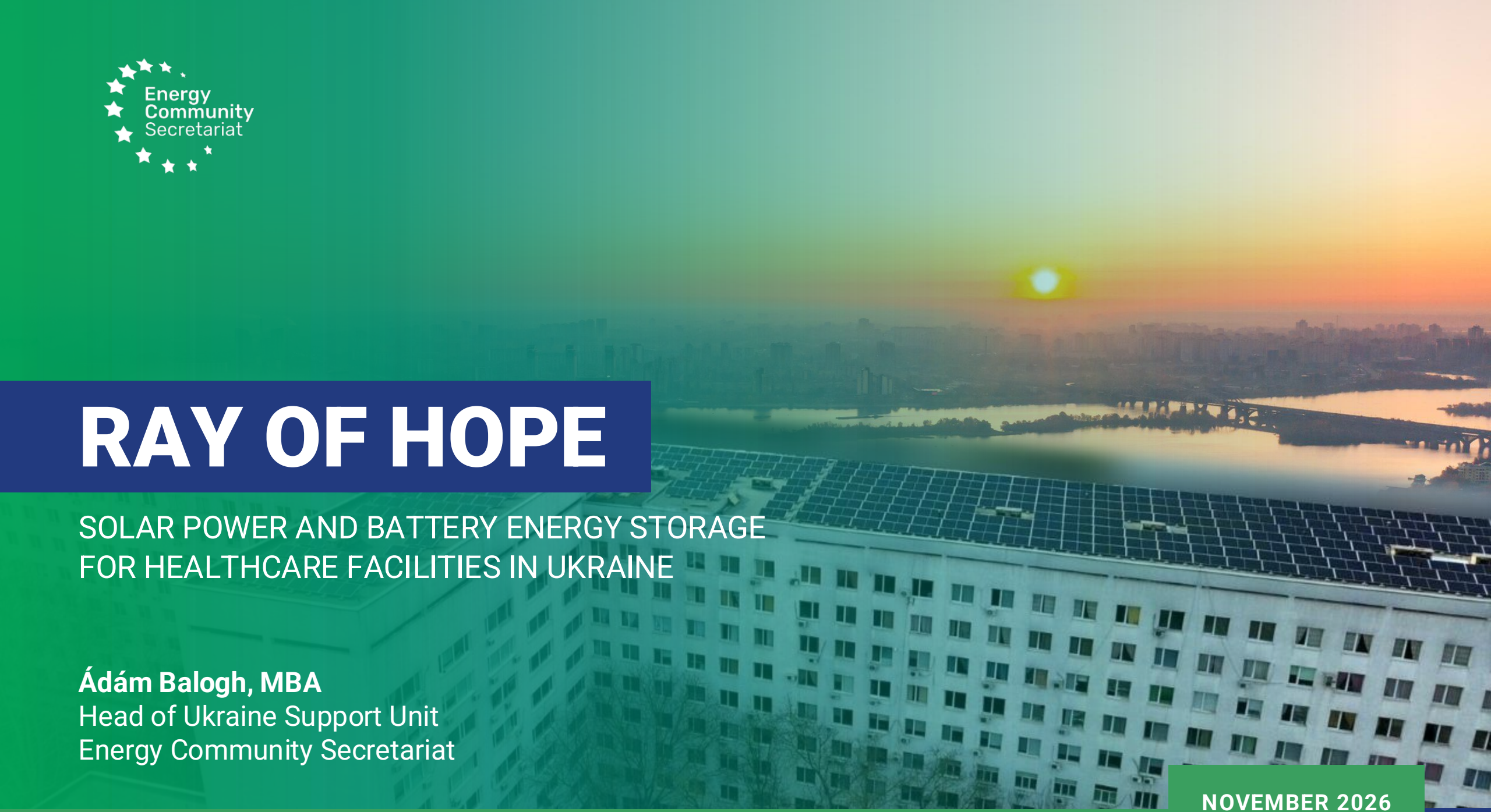


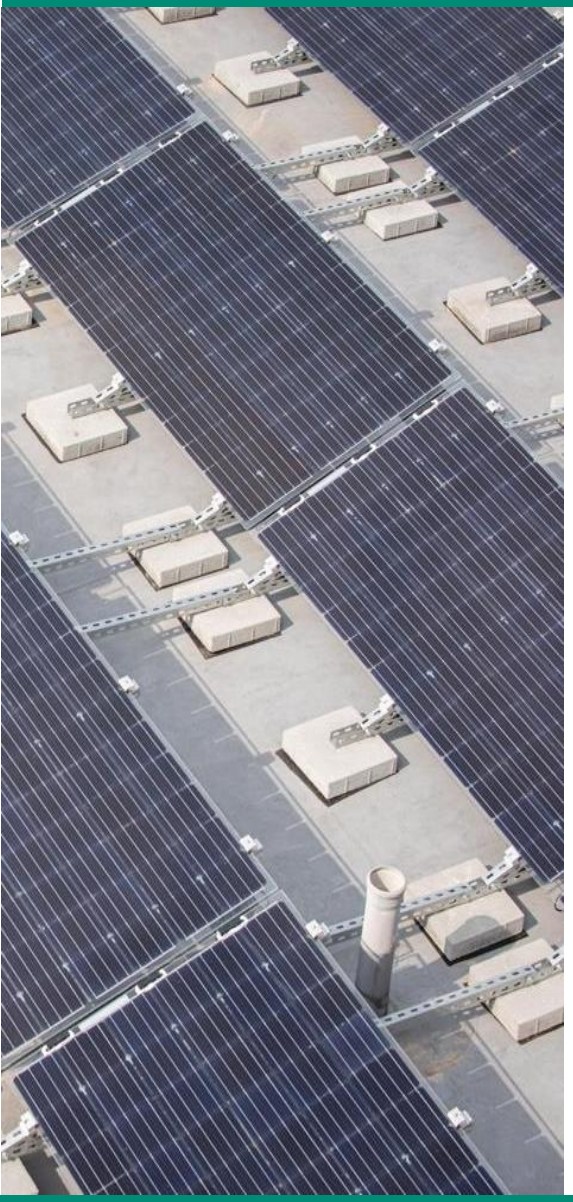
RAY OF HOPE

SOLAR POWER AND BATTERY ENERGY STORAGE FOR HEALTHCARE FACILITIES IN UKRAINE

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RAY OF HOPE: Introduction



Sustainable Energy for Hospitals amid War

In 2024, the Fund advanced the implementation of the Ray of Hope initiative, highlighting its expanding role in supporting Ukraine's long-term recovery and sustainability goals.

The initiative provides turnkey solar power systems with integrated battery storage to healthcare facilities in Ukraine, ensuring uninterrupted access to electricity during power outages caused by the war.

Initiated by the European Commission, implemented by the Energy Community Secretariat, the initiative strategically enhances the resilience and sustainability of Ukraine's healthcare infrastructure.

Energy Resilience

Sustainability

Stakeholder collaboration

HOW RAY OF HOPE WORKS

Building on this model, Ray of Hope provides healthcare facilities with a complete, turnkey pathway from initial site assessment to a fully commissioned solar PV and battery storage system. The programme is implemented by the Energy Community Secretariat under the Ukraine Energy Support Fund, in cooperation with the Ministry of Health and the Ministry of Energy of Ukraine. Each project follows a structured implementation process designed to ensure that the system is technically appropriate for the facility, procured transparently, installed to the required standard and handed over ready for operation.

1

MINISTRY OF HEALTH

Selects hospitals

Pre-selects and prioritises healthcare facilities for support.

2

HEALTHCARE FACILITY

Submits request

Prepares and submits a Support Request for a solar and battery system at its site.

3

MINISTRY OF ENERGY

Approves request

Reviews and approves each Support Request.

4

UKRAINE ENERGY SUPPORT FUND

Funds the project

Allocates donor funds on a rolling basis and oversees project implementation.

5

PROJECT MANAGER & CONTRACTOR/SUPPLIER

Delivers project

Turnkey delivery: assessment, procurement, installation and commissioning.

DONORS

Fund the programme

Grants flow to the Fund under grant agreements. The Secretariat reports back to donors on progress, spending and audits at every stage, from approval to commissioning.

RAY OF HOPE: GENERAL OVERVIEW

MinHealth	MinEner	ECS
687 sites selected	492 sites approved	307 sites in progress

Cost & Capacity Estimate

96 M EUR
61 MW

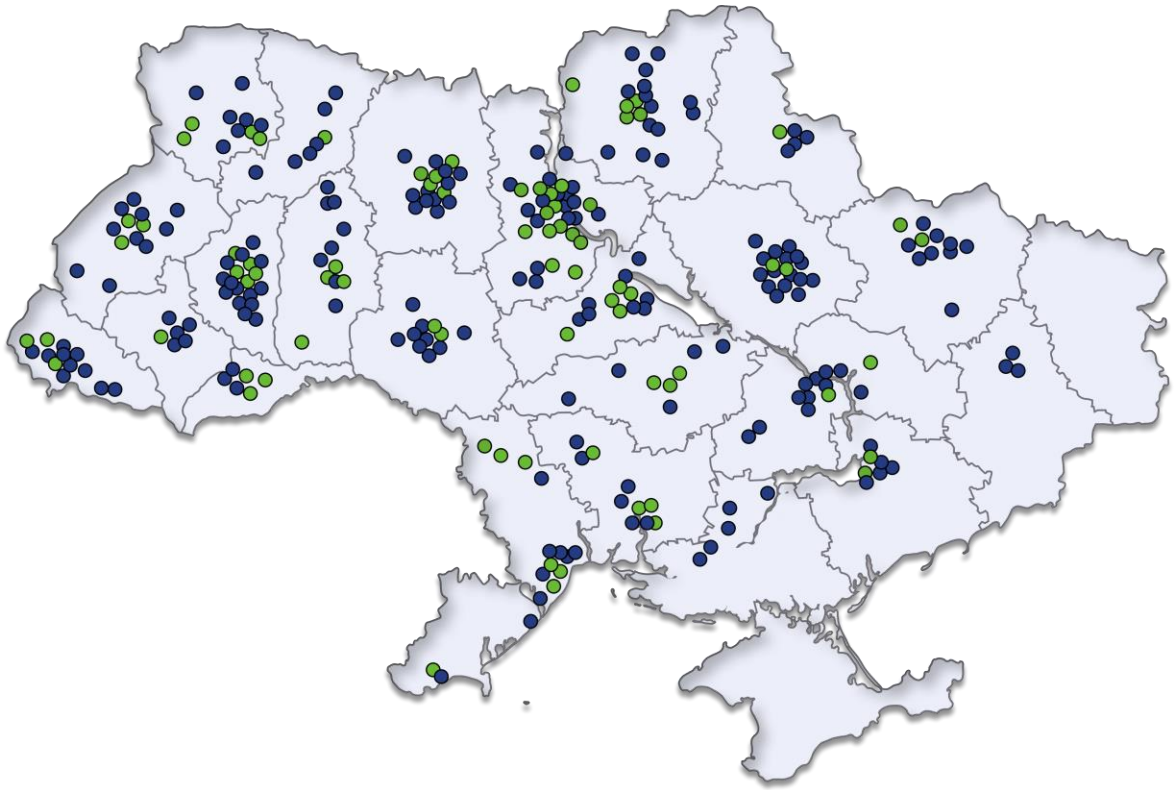


Average Project Data:

- **Capacity:** ~90 kW
- **Price :** ~140,000 EUR/project

RAY OF HOPE: IMPLEMENTATION

LOCATION OF SUPPORTED HEALTHCARE FACILITIES



- Funding allocated: request approved and financed by the Fund
- Solar system installed and generating electricity

Each dot marks one healthcare facility.

Projects

Approved by MoE	492.0	44 MW
PM Contacted	307.0	28 MW
Tendered	184.0	17 MW
EPC Contracted	148.0	13 MW

Actual

Estimated

112 Projects Energized

ENERGIZED PROJECT EXAMPLES















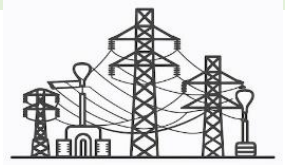


Background of Ukrenergo special auctions & motivation for de-risking

Why is Ukrenergo conducting special auctions?

Stability & resilience of transmission grid operation is challenged by:

- War damages
- Growing RES



Urgent need for higher grid balancing capacities ("ancillary services")



Ukrenergo conducts special auctions for additional balancing capacities (mostly BESS) by private sector



Why does EnCS propose to de-risk auction projects?

High uncertainty of how many auction capacities will be implemented (time & financing constraints)



EnCS proposes de-risking of private sector auction winners to support grid resilience & Ukrenergo as trusted partner

UKRENERGO
State enterprise | National power company

- BESS…Battery energy storage systems

EnCS has developed de-risking support for Ukrenergo Special Auctions

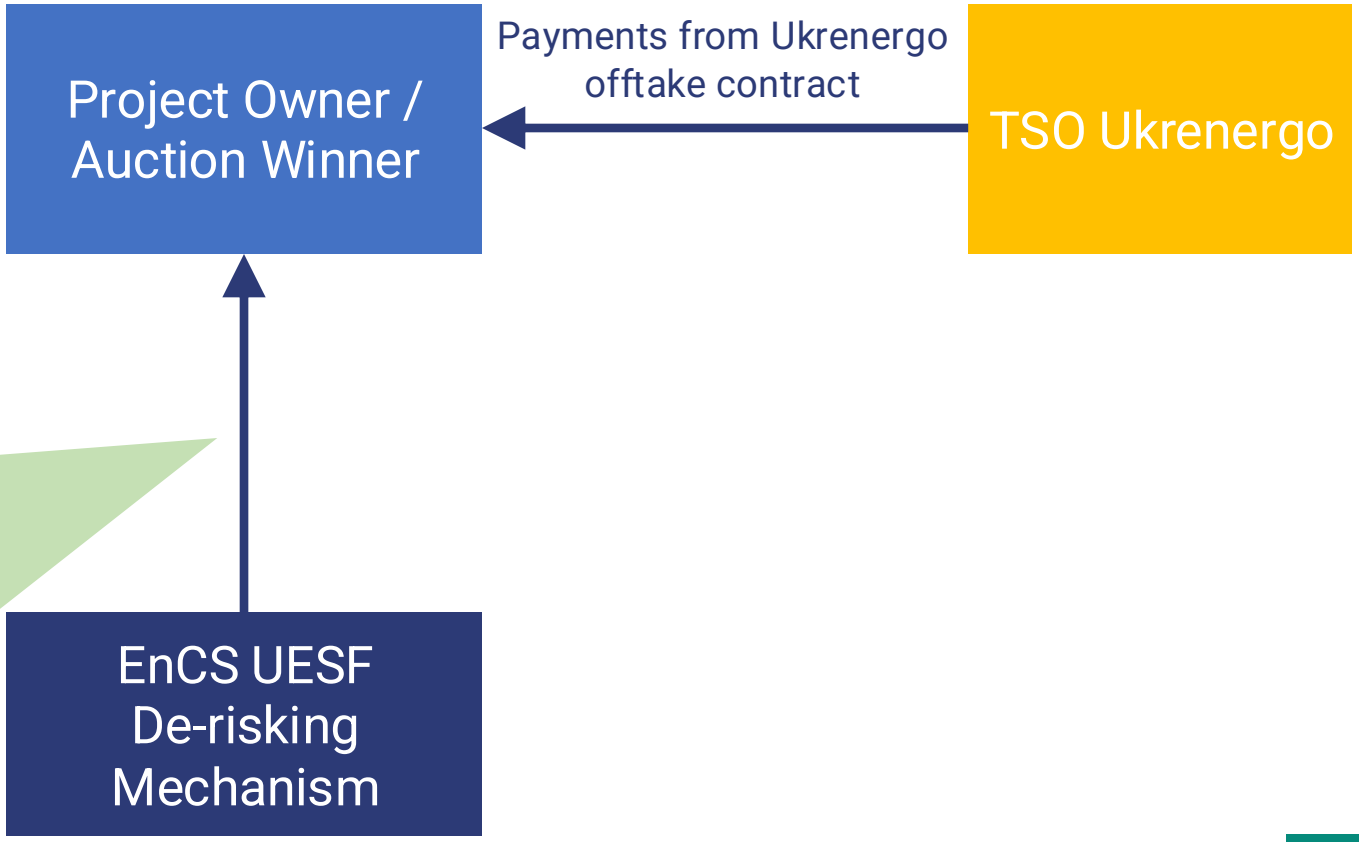
Scope of De-risking Mechanism

Hybrid approach

A **Guarantee-based** component
- Partial guarantee coverage for project owner's loan from a Ukrainian bank
- Provided in form of a guarantee from an internat. commercial bank (for up to 5 years)

+

B **Procurement-based** component
- Passive protection equipment
- War risk insurance (as potential option, if available)



De-risking pilot phase implementation & status update

- Conducted stakeholder engagement with eligible project owners who expressed interest in de-risking coverage and their Ukrainian financing banks ✓
- Secured funding for derisking pilot phase from Norad (July) ✓
- Launched public 'Call for expression of interest' for pilot phase (Sept./Oct.) ✓
- Evaluated pilot project candidates who applied in the call ✓
- Ongoing implementation of new de-risking mechanism with pilot projects *in progress*

Energy Community Secretariat

Thank You

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