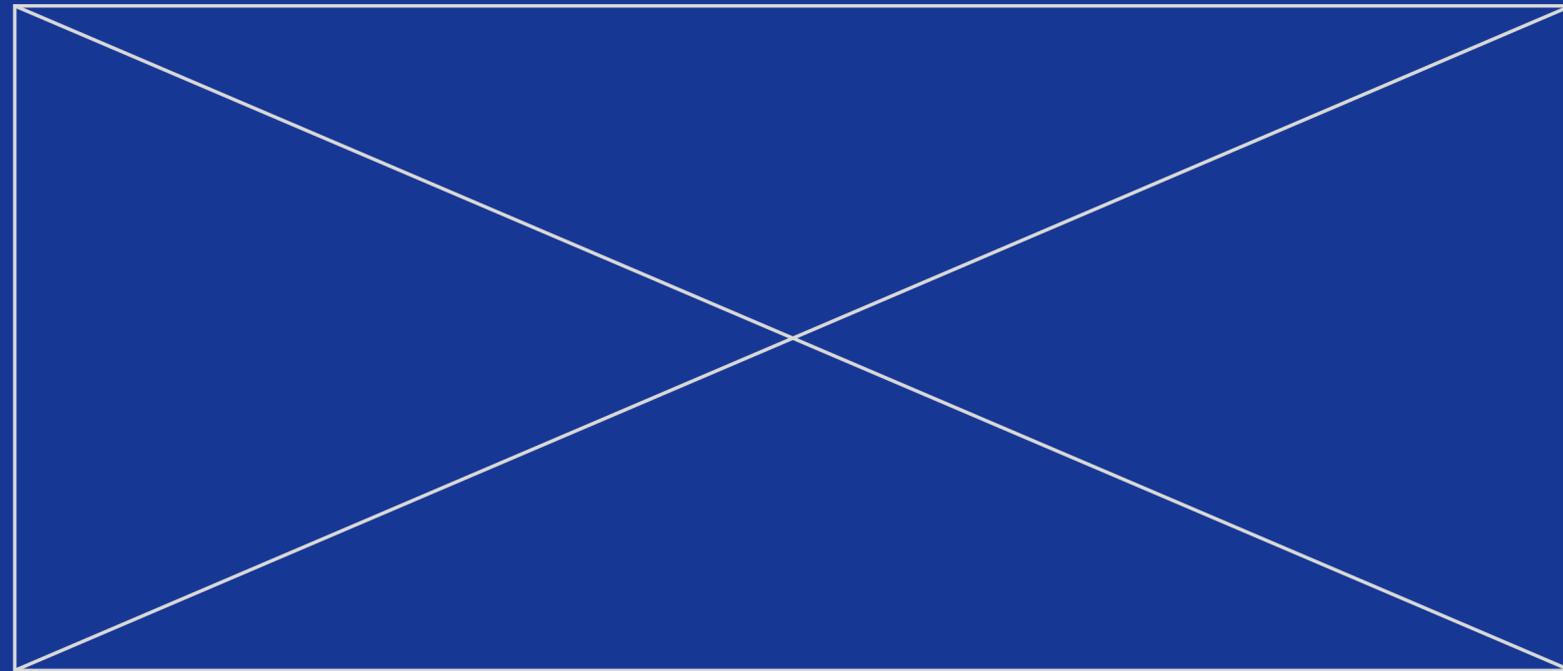

RE-POWER

Ukraine with Storage

PRESENTATION BY DMITRY PRINUS

NOVEMBER 2024



ENERGY STORAGE

GRID

By using energy storage during brief outages, businesses can avoid costly disruptions and continue normal operations. Residents can save themselves from lost food and medicines, and the inconvenience of not having electricity. Increases the self-sufficiency of both interconnected and off-grid systems.

STABILITY

Solar energy production may vary with the weather, but energy storage systems can help stabilize the supply to and from the grid. Batteries also contribute to grid stability by improving system frequency regulation. In case of deviation from the standard 50 Hz, the batteries can adjust the frequency.

FINANCIAL

Energy storage can reduce the cost to provide frequency regulation and spinning reserve services, as well as offset the costs to consumers by storing low-cost energy and using it later, during peak periods at higher electricity rates.

UP AND-RUNNING

Projects that are already operational.

Examples of grants and bank loans in works.



Cost of 2,2mln UAH of which partial funds were allocated by city council. 60kW-DC, 30kW of inverter and battery power. Return on investment based on electricity cost saved.

KHMELNITSKY INFECTION HOSPITAL

CITI UKRAINE, YELLOWBLUE FORCE FOUNDATION AND EKOCLUB



Cost of 1,9mln UAH of which all were in grants. 30,4kW-DC and 28,4kWh battery. This allows the aid center to operate even longer blackouts without disruptions.

TEOFIPIL SANITATION FIRST AID CENTER

REPOWER UKRAINE, GIZ, INTERNATIONAL CLIMATE UKRAINE, EKOCLUB, EKODIA, ENERGY ACT FOR UKRAINE

ACCORDING TO ANDRIY HERUS

BY 2024

270 MEDICAL FACILITIES

Will have PV modules installed. The power ranges from 7kw -> 100kW.

CONSUMPTION

These changes will allow them to consume between 20% -> 70% of needed electricity from own solar power plants.

ENERGY STORAGE

Quarter of such facilities will have battery storage in addition to installed solar power modules.

THE TOTAL COST SAVINGS FOR THESE MEDICAL INSTITUTIONS WILL AMOUNT TO 55 MILLION UAH PER YEAR.

FIN ABILITIES



01 - GRANTS

National or regional government support programs. Local or foreign NGOs.
Different types of research grants, business support grants or environmental.

02 – LOCAL/FOREIGN BANKS

Different possibilities in financing/loans for financially healthy business to
take out loans for modernization or energy efficiency.

03 – LOCAL/FOREIGN BUSINESS

Possibilities in attraction of a partner for a specific project in business, like
installing SPP and BESS for self consumption and pay-outs via saved costs.

THANKS

FOR HAVING

US



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