How Novovolynsk Built a Philosophy of Energy Resilience

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Energy as the Community's Heartbeat

Novovolynsk Urban Territorial Community

Security is forged from within — moving from vulnerability to self-reliance.













Water Infrastructure: The Solar Shield

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- **410 kW** — Wastewater Treatment Facilities
- **250 kW** — Northern Water Intake
- **240 kW** — Southern Water Intake







> 1 MW Total Solar Capacity for Water Infrastructure

Hybrid Systems & Island Energy Mode

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- ⚡ **> 0.5 MW** Electrical Output
- ♨️ **~700 kW** Thermal Output







Continuous operation during grid blackouts: Self-sustaining heating loop.

Safeguarding Vital Social Infrastructure

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Maternity Ward (Central Hospital): 30 kW
Solar Station
(Guaranteed warmth & operational power)



Lyceum No. 5: 85 kW
Solar Array
(Covers up to 80% of energy needs)



Administrative Social Services (CNAP):15**kW**
Rooftop Solar
(Uninterrupted public services)



NOVO Business Support Center:20 kW
Solar Station
(Continuous support for local business)

Alignment with European Energy Principles (Interreg Europe)

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Energy Efficiency First:

The cheapest energy is the energy saved.

Decentralized Generation:

Resilient energy communities over vulnerable centralized targets.

Diversified Energy Mix:

Solar + Storage + Cogeneration + Smart Control.

Novovolynsk: Smart Local Solutions for a Resilient Future

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Thank you for standing with Ukraine!

Together for a resilient and sustainable European future!