COSSACK ENERGY

PRACTICE 02 · ENERGY FOR CITIES

A city's independence

The Cossack Energy project for the energy security and savings of cities and communities.

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cossackenergy.com

A city’s savings lie in the sum of its sites

A city consumes energy through dozens of sites at once: schools, hospitals, the water utility, heating networks, street lighting. Each site has its own profile, its own contract and its own delivery tariff.

A single bill does not show this. The main saving becomes visible only when every site is brought into one hourly balance for the municipality.

MUNICIPAL SITES

One balance

- Schools and healthcare facilities
- Water utility and heating networks
- Street lighting
- Administrative buildings

The community baseline is the first document, not the first cost estimate.

The critical season is winter

WHEN

The winter maximum

The heaviest load and the most expensive hours fall in winter and in the dark part of the day.

That is exactly when critical infrastructure depends on energy: heat, water, hospitals, communications.

WHAT IS MISSING

Rooftop solar does not close it

Solar generation delivers most in summer and in daylight. In December, in the evening hours, its contribution is close to zero.

A daily-cycle battery moves energy within the day only — it does not create energy in winter.

Winter evening hours are a separate problem, and they are solved separately.

Those hours are closed by a different technology

Wind generation

Works at night and in winter — in the hours when the city is shortest of energy.

Biogas

Dispatchable capacity on a local resource: farm and wastewater treatment residues.

Gas engine cogeneration

Power and heat from one fuel; the value depends on the ratio of gas and energy prices.

Biomass

Local fuel for the heat part of the community balance, with spending kept local.

The technology is a conclusion of the calculation, not an assumption going in.

A partnership: the city brings offtake, the investor brings capital

CITY

A guaranteed price

Long-term purchase of energy at a predictable price, and power for critical infrastructure.

INVESTOR

Anchor offtake

A guaranteed long-term buyer — the condition under which the project gets financed at all.

COMMUNITY

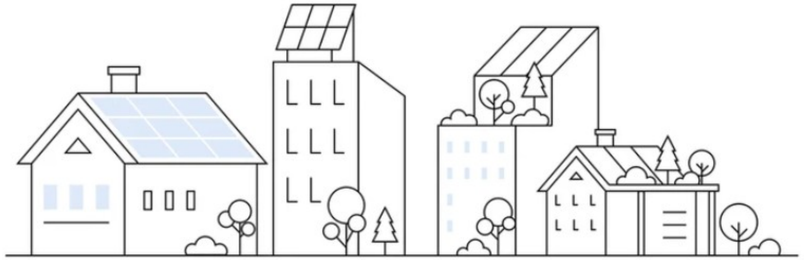
Kept local

Taxes, jobs and the energy resource stay where the energy is consumed.

Public-private partnership is what makes the project possible for all three sides.

An investment-grade calculation

A city project stands up to a donor, a development bank and an auditor — and is investment-grade at the same time: with economics of its own, risks written down, and offtake a lender accepts.



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