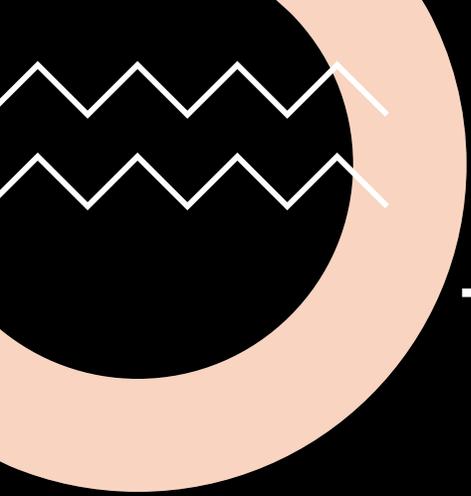




I ❤️ TERNOPI!



TERNOPIL CITY

Population

235 thousand people

Area

5800 ha

Climate

Temperate continental

-34...+36 °C, mid. +7 °C

Development priorities

Clean environment, tourism, energy saving, water treatment, education, transport, innovation, civil society development.





TERNOPIL CITY DISTRIBUTION GRID



Overhead power lines

- 10 kV: 17.779 km
- 0.4 kV: 107.542 km

Cable power lines

- 10 kV: 393.249 km
- 0.4 kV: 378.257 km

Mid-voltage substations

Ternopil's power grid includes 618 10/0.4 kV transformer substations with a total capacity of 248.4405 MVA. In addition, there are 26 10 kV switchgear stations (without power transformers) with a total capacity of 20.278 MVA, as well as 269 10/0.4 kV transformer substations with a total capacity of 188.0725 MVA. There are also 68 complete 10/0.4 kV transformer substations with a total capacity of 40.09 MVA.

UKRAINE INITIATIVE

Execution of the MOU
Nov 2024



This presentation contains forward-looking statements, which provide current expectations based on certain assumptions. Except as required by law, we disclaim any obligation to update these statements.

We Are GE Vernova



~25%

World's electricity generated with the help of our technology



2,200GW

Global Installed Base



\$33B

2023 revenue
~45% services



7K

Gas turbines installed...
world's largest fleet



1st

Small Modular Reactor
commercial contract
signed in North America



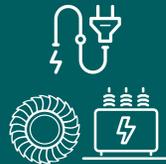
+\$4B

Financial Services -
enabled orders



54K

Wind turbines installed
in >50 countries...
#1 Onshore Wind in US^a



1st

Enhanced Electric Gas Turbine (EGT)
Aero + Storage + Hybrid Control



~\$1B

Annual Investment
Advanced Research
+ Businesses
~3% of revenue



30%

Global utilities served
by our software



220M

Haliade-X rotor size



\$116B

Backlog^b

Ternopil Microgrid

GE VERNOVA Project Lead	Ternopiloblenergo System Operator <small>Grid automation and advanced control system only</small>		
44MW total	3 Pilots (3MW) In DREAM	12-24 months	CHP secured Microgrid tbd

TERNOPIL CITY

~250k | citizens

~90MW | of electrical power load



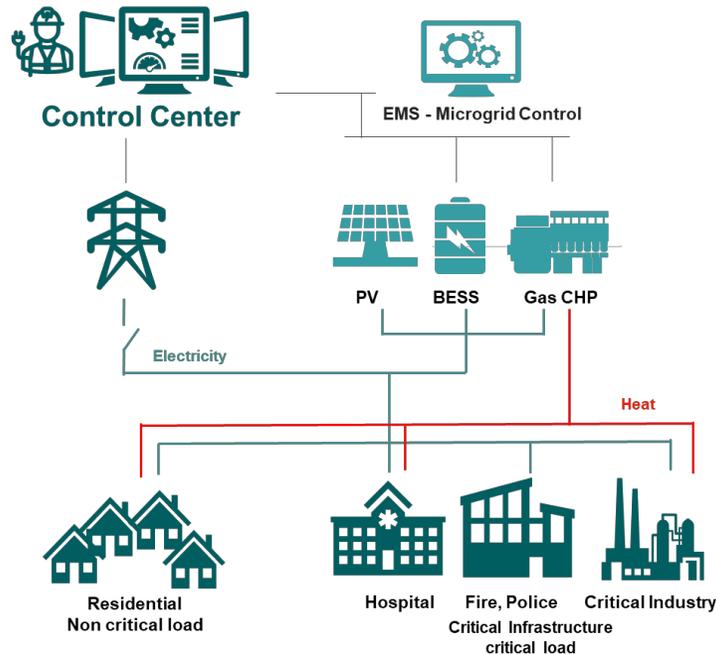
PROJECT:

- Development of 44MW power island for Ternopil municipality
- Extending new and existing Gas Engine/Turbine CHP with PV, BESS, network automation and EMS.

MICROGRID BENEFITS:

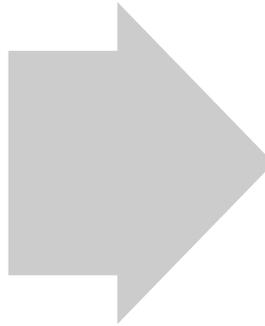
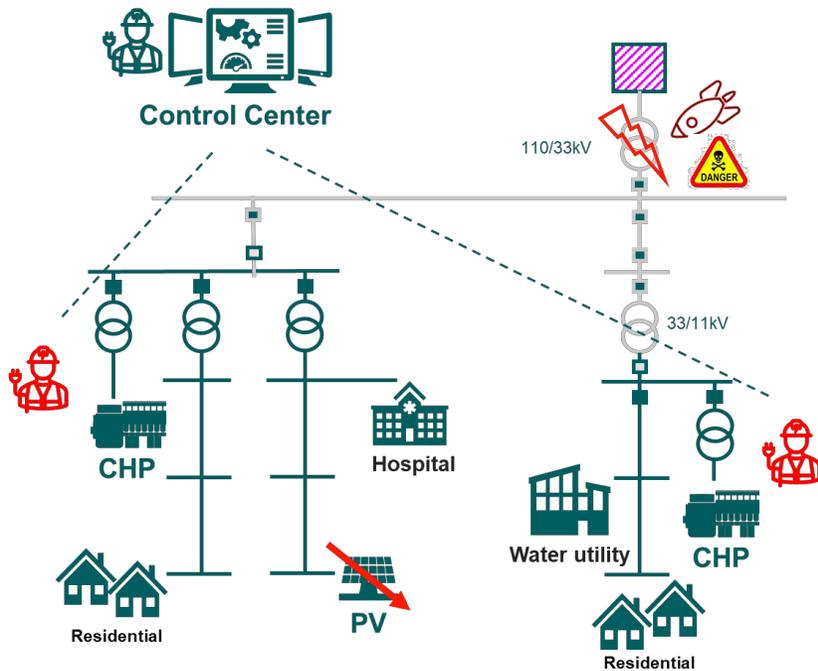
- Continue to supply electricity and heat to selected critical area and infrastructure during large-scale blackouts (off-grid)
- Increase energy security, resiliency and lower emissions.
- Enable PV to continue operating during grid blackouts
- Scalable by design and can easily be replicated to other cities

Ternopiloblenergo distribution grid

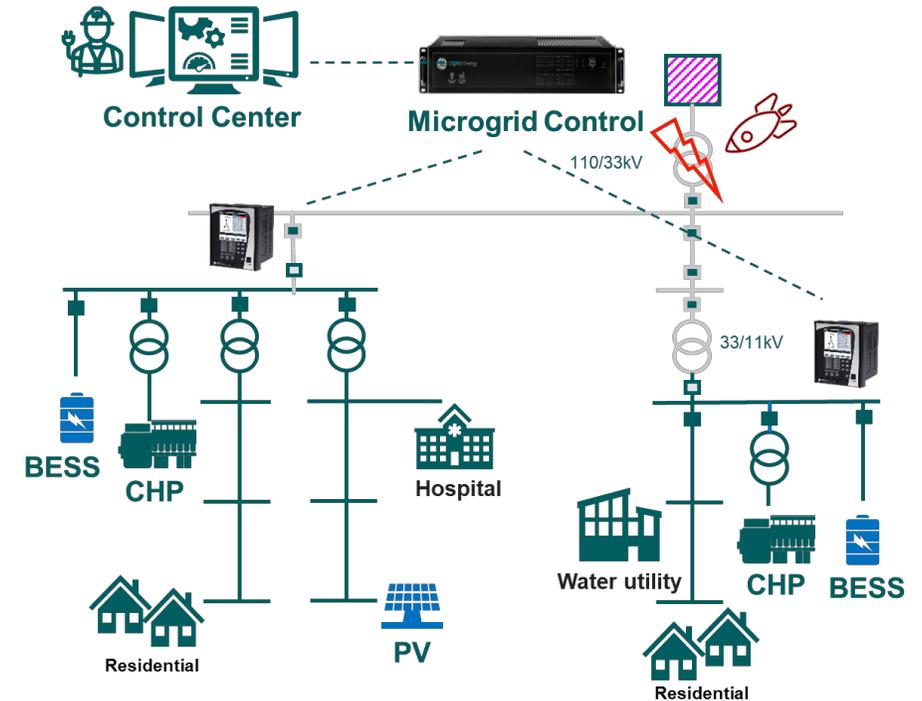


CHP-only versus Power Island (Microgrid)

ACTUAL



POWER ISLAND (MICROGRID)

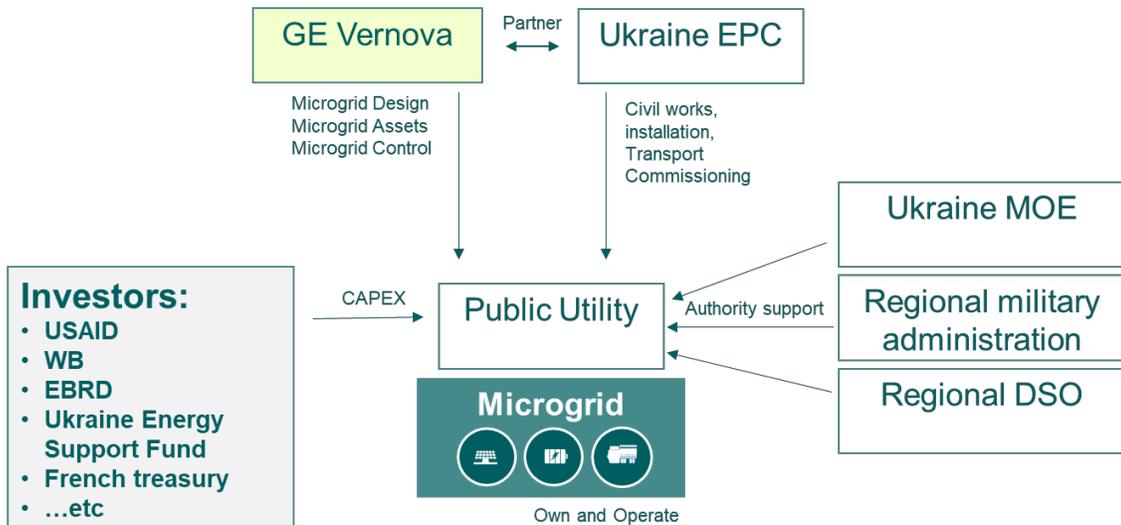


- Main substation or distribution grid are damaged
- Small Generators and CHPs are installed and supply the parts of the grid
- PV plants are shut down to avoid fluctuations
- Operation is manual. Engineers are dispatched to sites

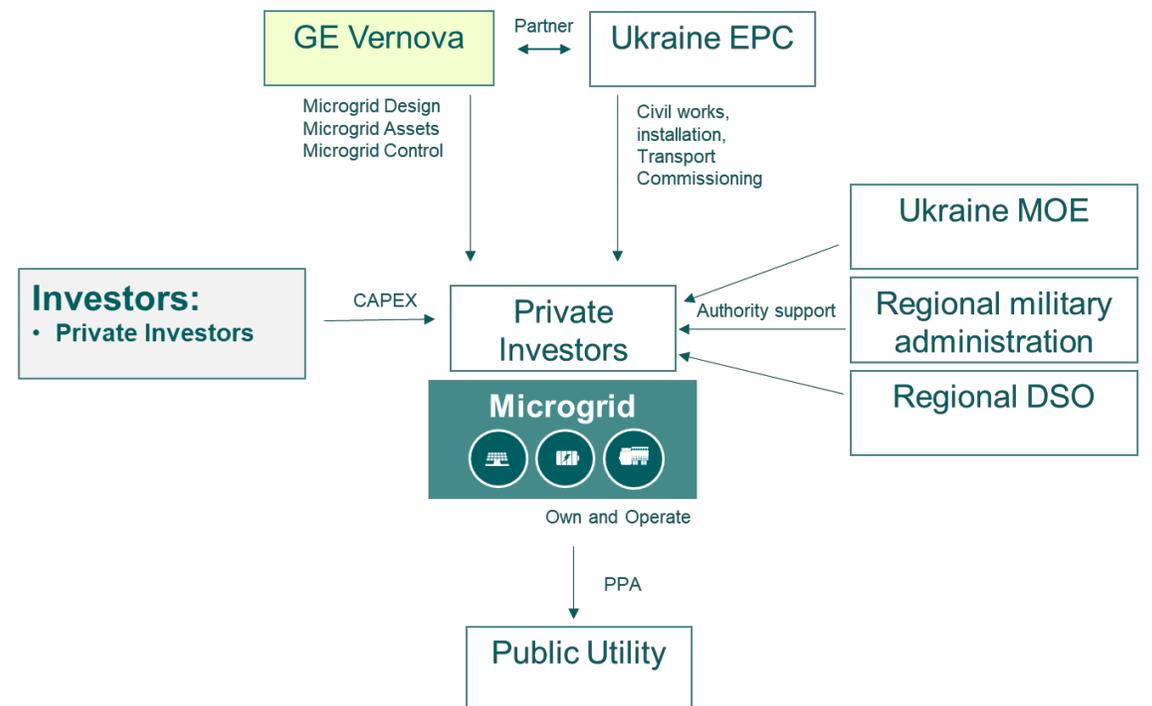
- BESS is installed to support generators and smooth PV output, reducing the gas/fuel consumption
- PV Plants can run and are actively controlled
- System runs in automated mode
- Operators have full remote control capabilities

Ownership and Delivery Models

OWN AND OPERATE



POWER PURCHASE AGREEMENT (PPA)



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