

# RES role in current and post war economy

ELEMENTUM ENERGY

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# Elementum Energy at a Glance

## Incorporation

Elementum Energy (EE) was established in 2018

## Leading international investor

EE operates the biggest RES portfolio among international investors in Ukraine with total share c. 8%

## Offices

London, Kyiv and Odesa

## Assets

100 MW wind park in Odesa region  
536 MW solar power plants across 6 regions

## Development plan

210 MW wind pipeline  
Sales model change to cPPAs and Merchant risk  
Battery Energy Storage System (BESS) to strengthen operating model

## Shareholders

VR Capital is an investment fund operating since 2003 with c. \$5.4 bln. in assets under management, focus on emerging markets and strong commitment to RES

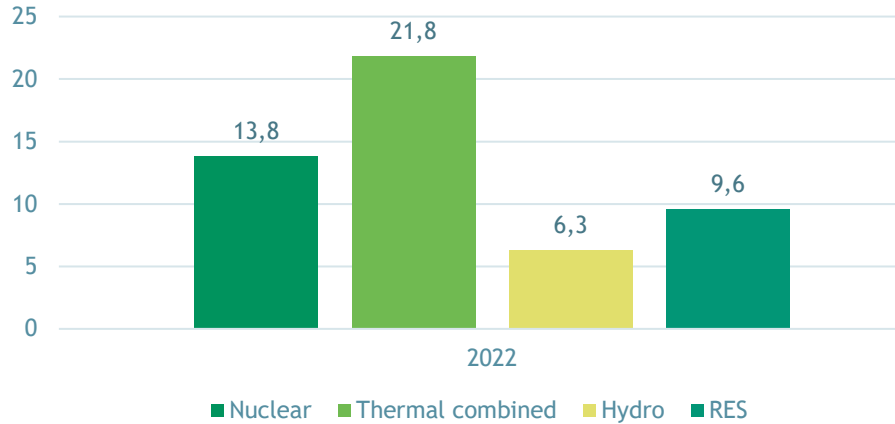


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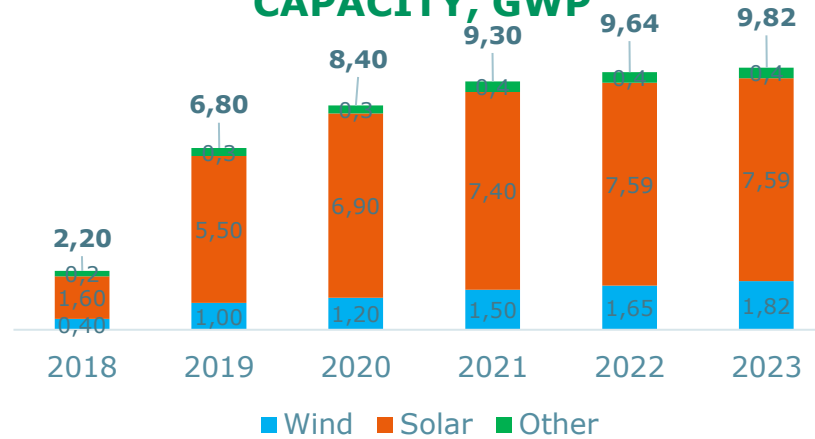


# Energy capacity of Ukraine

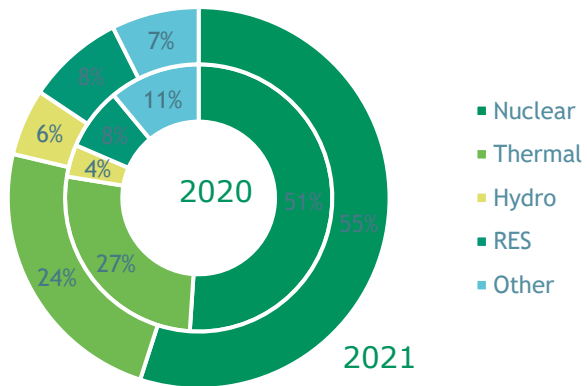
## INSTALLED CAPACITY BY TYPE, GWP



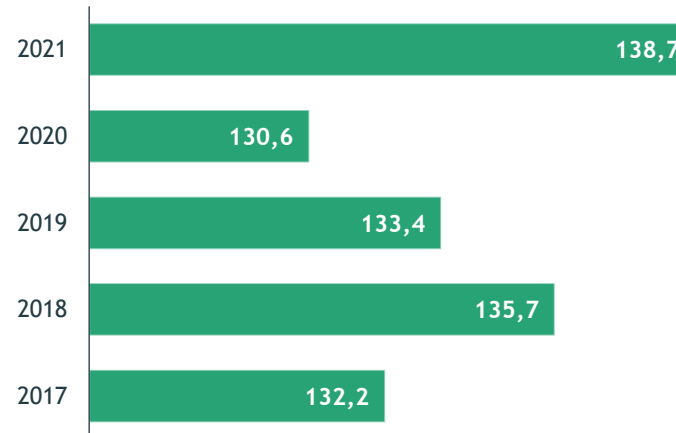
## RENEWABLES INSTALLED CAPACITY, GWP



## ENERGY MIX



## GROSS CONSUMPTION, MLN. KWH



### War notes:

- WPP up to 90% damaged or occupied
- SPP up to 30% damaged or occupied
- NPP up to 50% occupied / shut down
- TPP up to 30% damaged or occupied
- HPP up to 20% damaged
- More than 50% of overhead lines and substations damaged
- More than 35% of consumption dropped

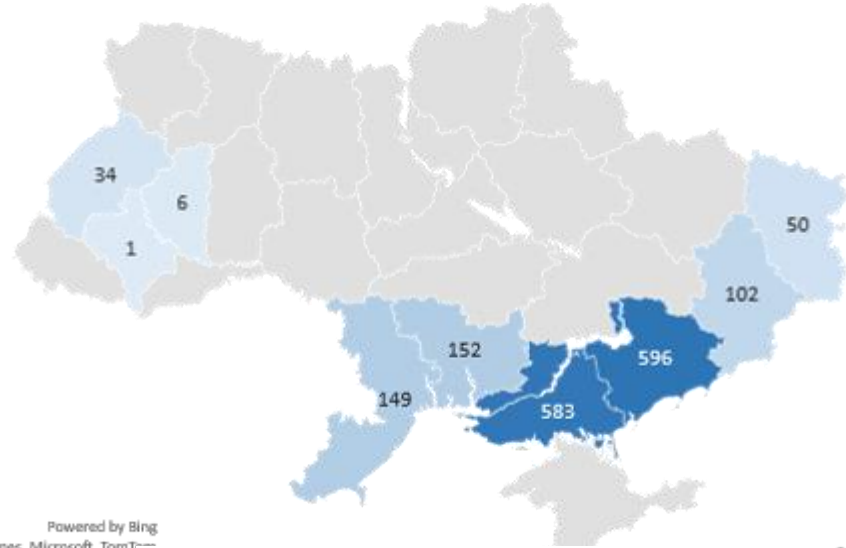
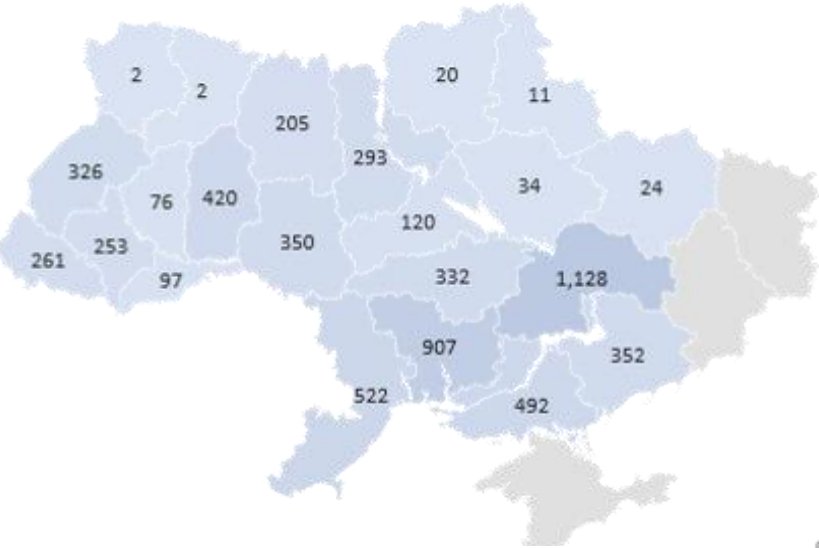
# Renewable energy market & players

**SOLAR INSTALLED CAPACITY, MW**

**WIND INSTALLED CAPACITY, MW**

Ukrainian RES support scheme have resulted in the rapid installation of over 8.4 GW of RES capacity by 2021, with the vast majority of investments in 2019

Ukraine targets carbon neutrality as a long-term goal, aiming to phase out coal-fired power generation and increase the share of renewables in the energy mix

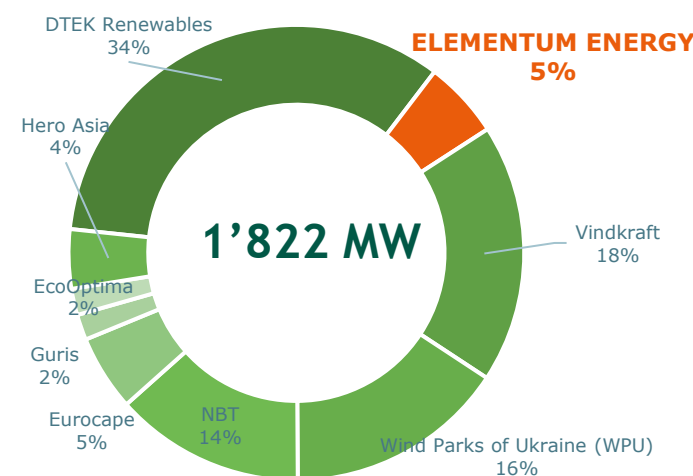
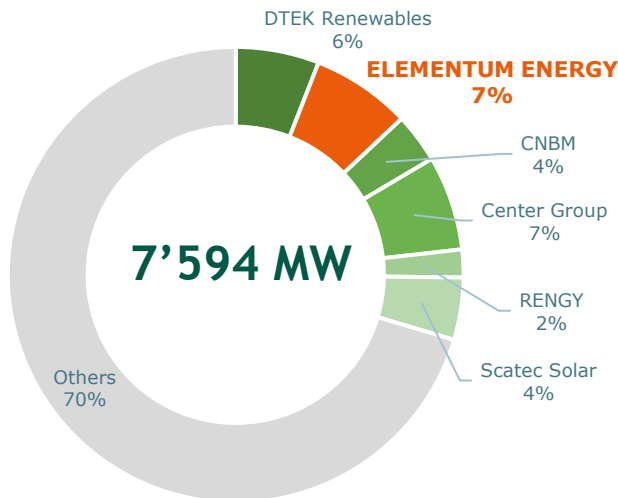


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**SOLAR INSTALLED CAPACITY**

**WIND INSTALLED CAPACITY**



# Sustainability at Every Step

## Key Highlights

- > **2,259 GWh** of green/renewable energy produced since 2019
- > **1.6 million tonnes** of CO2e avoided since 2019

Since 2021 Elementum has become a member of the **United Nations Global Compact** initiative and started following ten principles on human rights, labour, environmental and anti-corruption in each business process.

The company is focusing on development and implementation of corporate standards within the **Integrated Management System (IMS)** according to **ISO 14001:2015** and **ISO 45001:2018** standards.

Elementum limits environmental impact at all stages of operations through effective resource management, minimizing waste generation, control of air emissions, avoiding and minimising biodiversity loss.

We strongly believe that human life is the most important and safety, health and well-being of our employees and contractors is the top priority for the company.

EEL actively cooperates with local communities around regions of the production facilities presence. Our corporate social responsibility (“CSR”) projects are designated to help regions to become more inclusive, safe, resilient and sustainable, as local communities are drivers of economic growth.

Company’s ethical and conduct standards are outlined in our policies, which are designed to create a culture in which all employees and counterparties feel valuable, respected, empowered and inspired.

Elementum is striving to implement principles of sustainable development in all business aspects while producing reliable clean energy via sustainable and renewable sources for today and future generations.



# RES as a Partner for Business

## Energy supply and price hedging

- Physical energy supply at fixed price for fixed term
- Synthetic PPAs (contract for difference) for fixed price, volume and term - no physical supply, only hedging

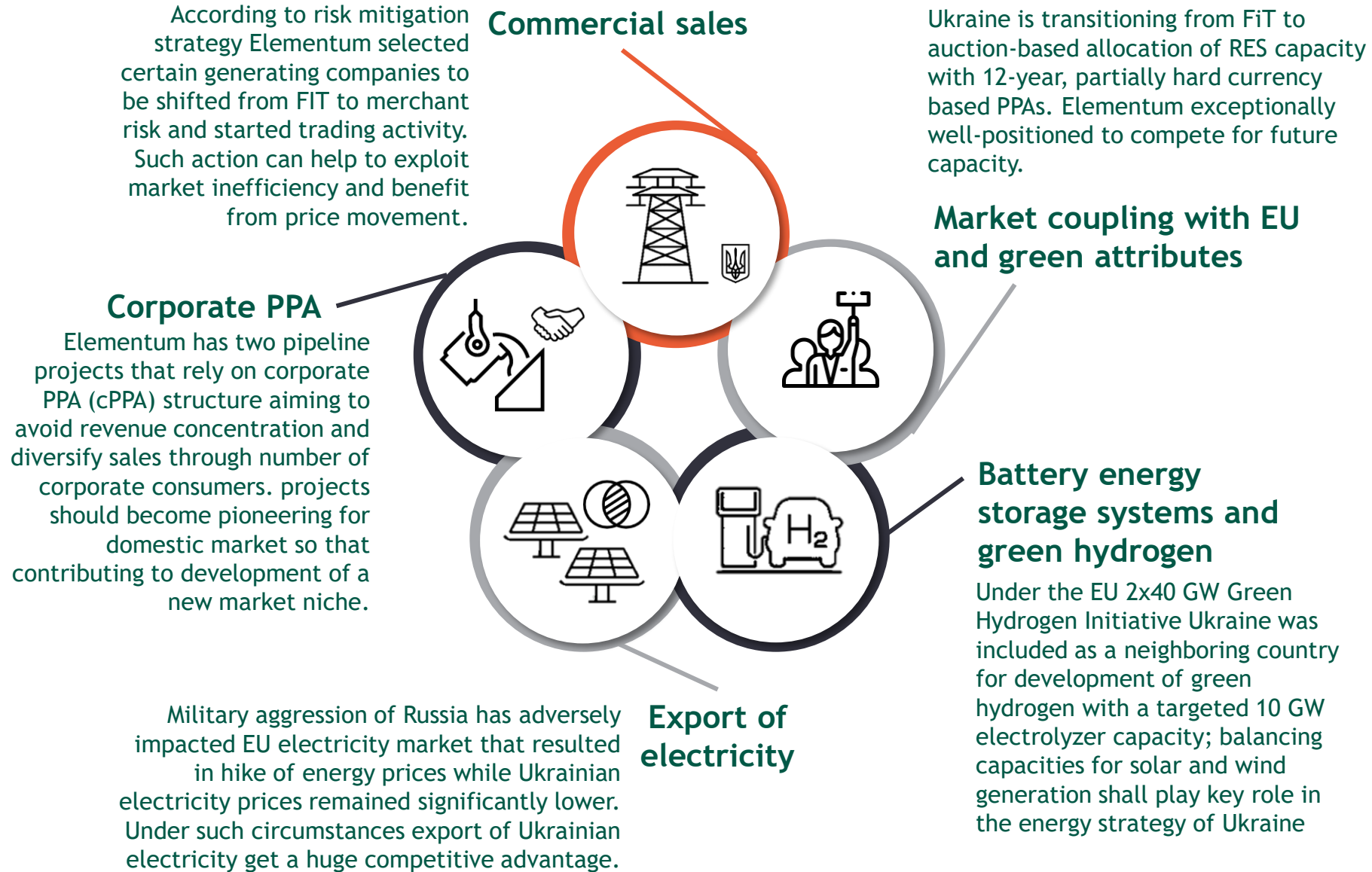
## Savings through investment partnership

- Law 3220 allows business to become energy prosumer and put either own RES generation behind the meter or attract investor to build RES
- Such approach saves on a) energy price (DAM), b) transmission (TSO) and c) distribution (DSO)
- Solar, batteries and different biogas plants are perfect choice for “behind-the-meter” solutions

## ESG and carbon taxation

- RES will be able to supply business with green certificates (certificates of origin) - either complimentary to the supply and hedging or as standalone service
- Green certificates could be used for ESG matters (proof of green transition) and carbon emission taxation management

# Exploring Ukraine Further





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# Thank You for attention!

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