

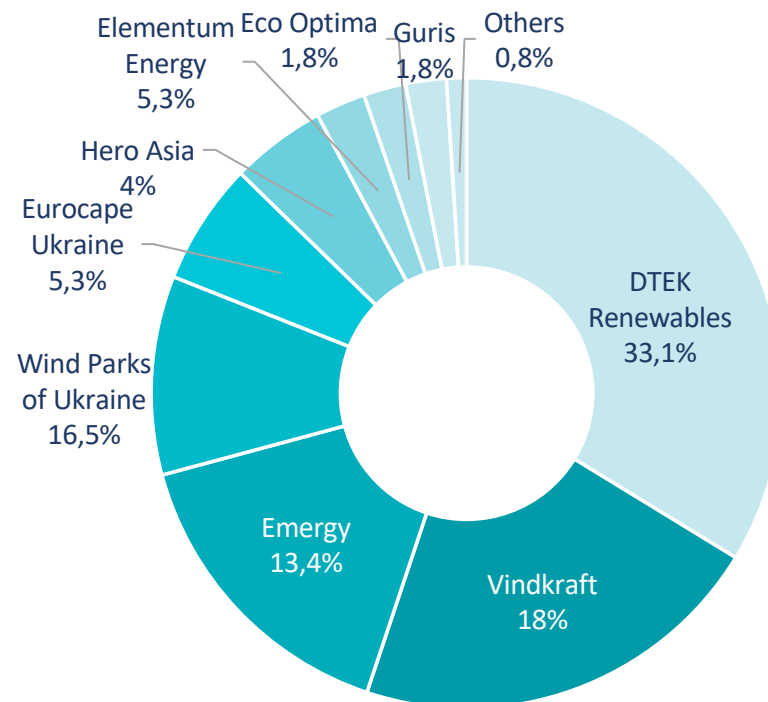


# Wind power in Ukraine: current challenges and prospects. Concept of future wind deployment

**Andriy Konechenkov,  
Chairman of the Board UWEA**

**Legal and Technical Challenges for Unleashing Ukraine's Wind Energy Potential  
11 December 2023, Kyiv, Ukraine**

## Investors



## Wind farms installed in Ukraine



**1.86 GW**

**36**

*Wind Farms*

**183.6 MW**

*New wind additions since 2022*

**>EUR 3,5 billion**

*Investments*

# Wind Power Sector in Ukraine: Current Status

## New wind additions in wartime

# Wind Power in Wartime

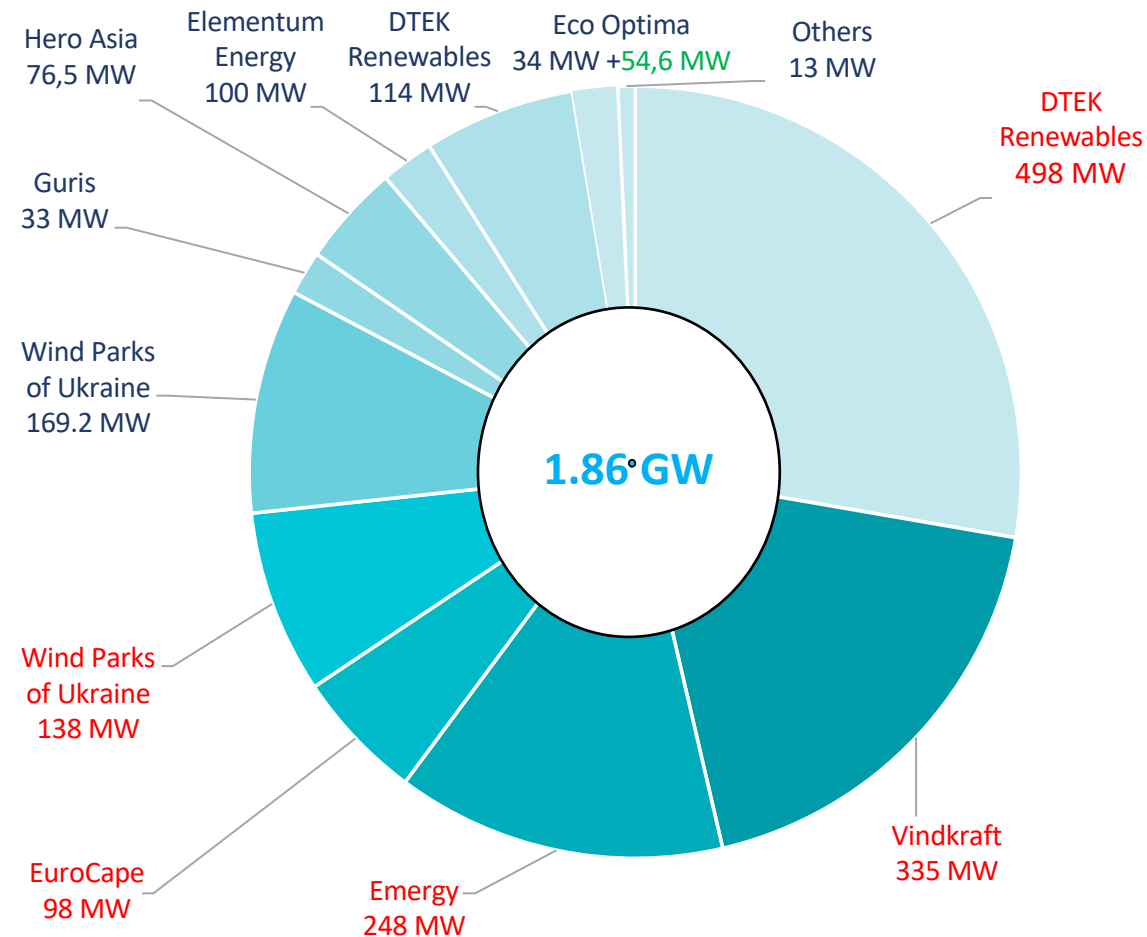
**DNISTROVSKA WPP**  
 Commissioned in Q2, 2023  
 Capacity: **60 MW**  
 Location: **Odesa region**  
 WTG: **11 Cypress GE**  
 Unit capacity: **5.3-5.5 MW**



**TYLIGULSKA WPP**  
 Commissioned Q2, 2023  
 Capacity: **114 MW**  
 Location: **Mykolaiv region**  
 WTG: **19 EnVentus**  
 Unit capacity: **6.0 MW**



**SKOLIVSKA WPP**  
 To be commissioned in Q4, 2023  
 Capacity: **54,6 MW**  
 Location: **Lviv region**  
 WTG: **10 N149/5.X**  
 Unit capacity: **5.4 – 5.5 MW**



**1 317 MW (71%) wind capacities have been shut down**



## 6 GW Pipeline of Onshore Wind Projects by 2030



**45 wind projects totalling 6 GW could be commissioned by 2030.** With fundamental changes in Ukraine's regulatory framework, we could additionally implement wind projects totalling 12+ GW by 2030, and create a 20 GW pipeline of projects for implementation in the 2030<sup>th</sup>.

## RES Development Scenarios

### There are several scenarios for RES market development in Ukraine until 2030

#### With minor improvements

- It is possible to implement wind projects with a total capacity of about **6 GW**

#### A fundamental change in approach

**Simplifying the development procedure and facilitating investment in the short term (until 2030) will help:**

- additionally implement projects with a total capacity of **+10 GW**
- create a **portfolio of projects for implementation in the 2030s** with a total capacity of **>20 GW**

#### Prerequisites:

- Extension of existing permits
- Attracting investments
- Implementation of all projects that were initiated before the russian invasion.



#### Prerequisites:

- Emphasising RES in the restoration and planning of generating capacities
- Growth of industrial consumption
- Network development
- Interstate crossings development

## How to Attract Investors?

- **Remove the barriers**
- **Secure the investments**
- **Provide preferences to key industries, including renewable energy**

### Comprehensive state energy policy

- Prioritization of RES deployment
- State program of **professional and technical education of the workforce for the wind energy sector**
  - Incentives for building a local supply chain

### Optimization of infrastructure utilization

- Road and transport
- Grid connection



### Predictability and preferences for RES

- Tax preferences
- Removal of currency restrictions
- Guarantees of origin

### Simplification of permit procedures

- Permits
- Land
- Environmental studies
- Construction standards

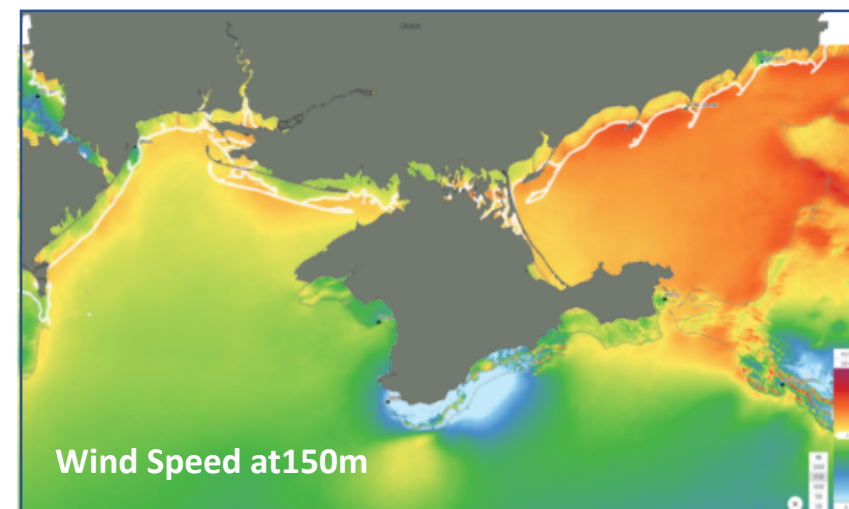


# Offshore wind power opens Ukraine's new energy capacity

**Offshore wind (OW) strategy to define a clear national role of OW technologies and set realistic short, medium and long-term goals and actions**

**Changes in Regulation:**

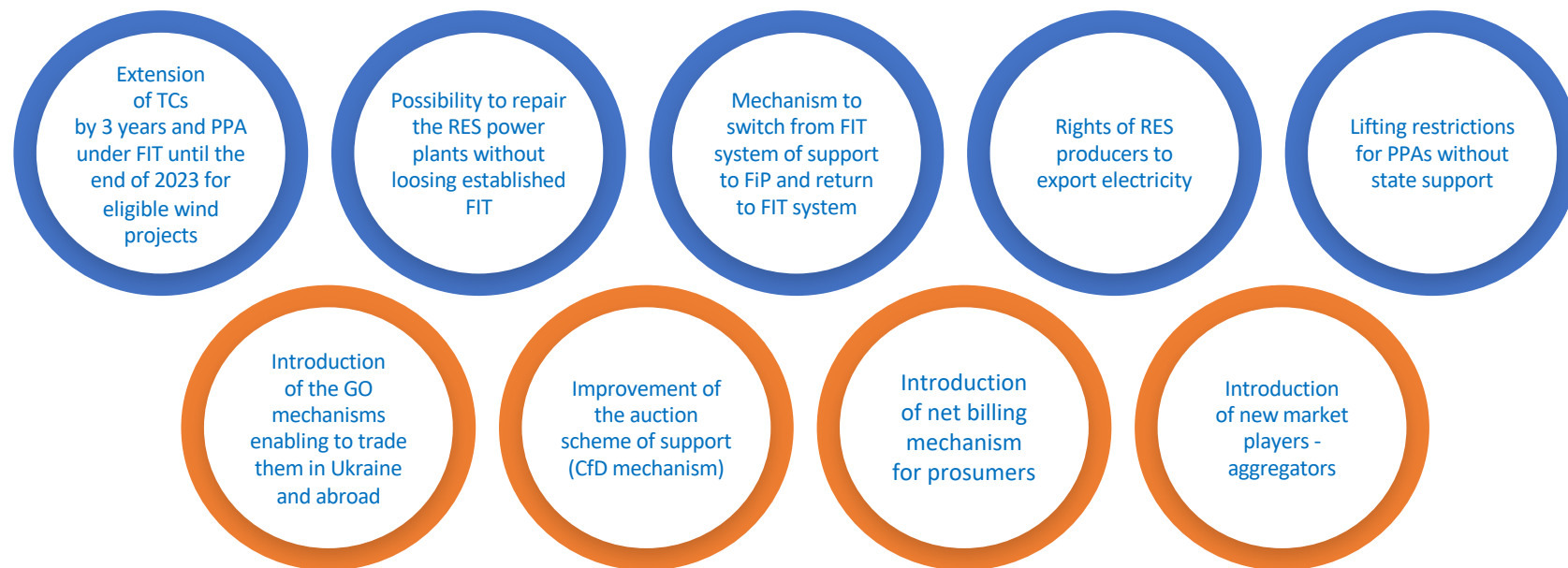
- Special maritime spatial planning
- Conditions & procedure for acquiring the seabed use title
- Grid connection procedure for OW
- Procedure and scope for EIA and SEA of the potential OW sites
- Procedure for coordination of OW development,
- Construction and operation activities with maritime and aviation regulatory authorities, military and border authorities
- Incentives for building a local supply chain for OW
- Offshore wind measurement campaign



Source: Global Wind Atlas

## REGULATORY CHANGES FOR WIND & OTHER RENEWABLES

On 30 June 2023, the Law of Ukraine on the restoration and green transformation of the power system of Ukraine was adopted. This is one of the most comprehensive law adopted in Ukraine that affects almost all aspects of the renewable energy sector.







# WIND ENERGY IS ENERGY OF FREEDOM AND INDEPENDENCE



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