Energy Community Secretariat

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CROSS-BORDER SUSTAINABLE RENEWABLES ACCELERATION AREAS IN UKRAINE – PHASE II

# APPLICATION OF ENVIRONMENTAL AND SPATIAL PLANNING CRITERIA FOR RAA PLANNING IN THE UKRAINIAN CONTEXT

Anastasiia Oleshchenko

Агенція геопросторових рішень АГЕОРА

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# RED III Provisions

## Renewables acceleration areas

- **designate sufficiently homogeneous areas**
- **giving priority to artificial and built surfaces** – defined types of priority areas
- **excluding**
  - Natura 2000 sites and areas designated under national protection schemes for nature and biodiversity conservation
  - major bird and marine mammal migratory routes
  - other areas identified on the basis of sensitivity maps and other tools
  - ✓ except for artificial and built surfaces located in those areas
- **using all appropriate and proportionate tools and datasets to identify the areas where the RE plants would not have a significant environmental impact,**
  - including wildlife sensitivity mapping, while taking into account the data available in the context of the development of a coherent Natura 2000 network, both as regards Habitats and Birds Directives

# Ukrainian Context



**Energy sector**

Legislation, production, transmission & distribution

**Environmental legislation**

National & EU implementation

**Spatial planning sector**

Regulations & practice

**Natural conditions**

Landscape, elevation, hazardous processes, values



**State & Local Authorities**

State/Regional/Local decision-makers

**Expert community**

Geography, ecology, energy, development

**RES developers**

RES Project Designers & Energy Companies

**Transmission & Distribution Operators**

National & Regional

# The RAAs Environmental Criteria Set

Regional level / Solar & Wind

## 1 Wildlife Protection

- **Criterion 1.1: Areas protected under international legislation**
  - **Indicator 1.1.1**: Areas of Emerald Network Sites with 700 m buffer zones
  - Indicator 1.1.2: Areas of Ramsar Sites with 700 m buffer zones
  - Indicator 1.1.3: Areas of UNESCO Biosphere Reserves with 700 m buffer zones
- **Criterion 1.2: Areas designated under national protection schemes for nature and biodiversity conservation**
  - **Indicator 1.2.1**: Nature Reserve Fund of Ukraine areas with 700 m buffer zones
- **Criterion 1.3: Major bird migratory routes**
  - **Indicator 1.3.1**: Migratory routes with 700 m buffer zones
  - Indicator 1.3.2: Important Bird and Biodiversity Areas with 700 m buffer zones
- **Criterion 1.4: Other sensitive areas identified through sensitivity maps and relevant tools**
  - Indicator 1.4.1: Areas with high level density of observations of endangered species including 700 m buffer zones
  - Indicator 1.4.2: Peatlands with 700 m buffer zones

## 2 Natural Conditions

- **Criterion 2.1: Elevation**
  - Indicator 2.1: Areas with elevation higher than 800 m
- **Criterion 2.2: Steep slopes**
  - Indicator 2.2: Areas with slopes more than 15%
- **Criterion 2.3: Areas prone to flooding**
  - Indicator 2.3: Areas with a probability of flooding of 1%

## 3 Land Use Regulations

- **Criterion 3.1: Areas of forest fund**
  - Indicator 3.1: Forest areas with 100 m buffer zones
- **Criterion 3.2: Areas of water fund**
  - Indicator 3.2: Waterbodies with normative waterside protection zones
- **Criterion 3.3: Agricultural lands**
  - Indicator 3.3: Areas categorised as agriculture land
- **Criterion 3.4: Recreational lands**
  - Indicator 3.4: Recreational lands with 700 m buffer zones

## 4 Reverse Inclusion Criterion

- **Criterion 4.1: Artificial and built surfaces**
  - **Indicator 4.1**: Areas of high concentration of artificial and built surfaces

## 5 Planning Constraints

# **Planning Constraints** (Criteria group 5)

***Considering*** is possible only within

***detailed analyses and planning*** at the local level

**Criterion 5.1: State border regime areas**

- Indicator 5.1: Border strip

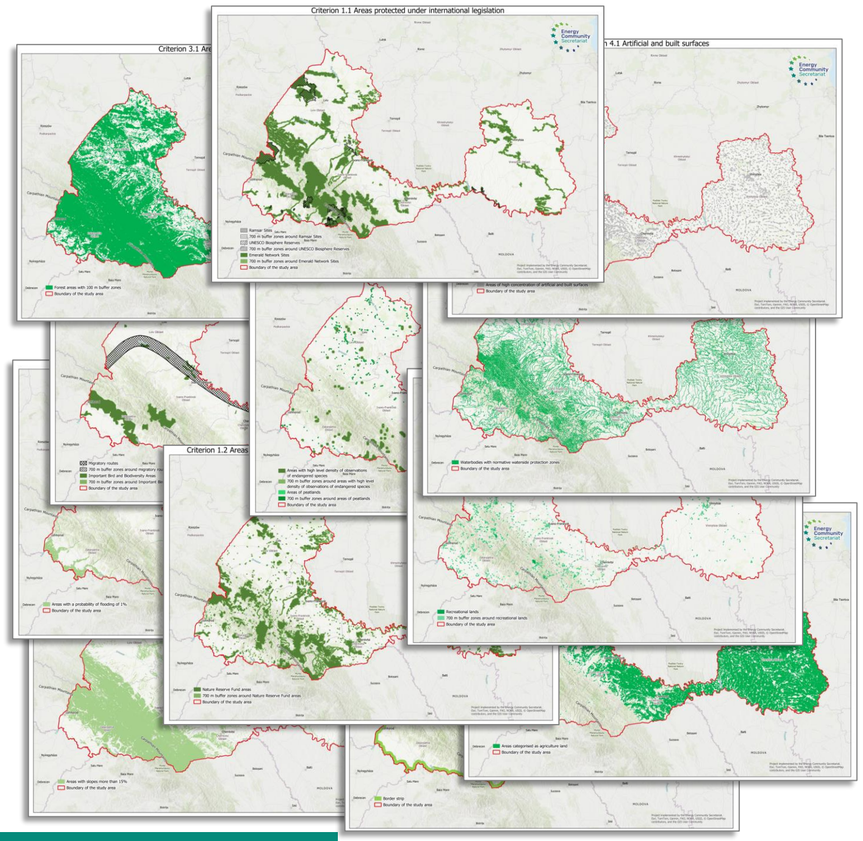


- functional purpose of the territory (functional zoning)
- historical and cultural restrictions
- sanitary, aviation and protection restrictions
- development regulations

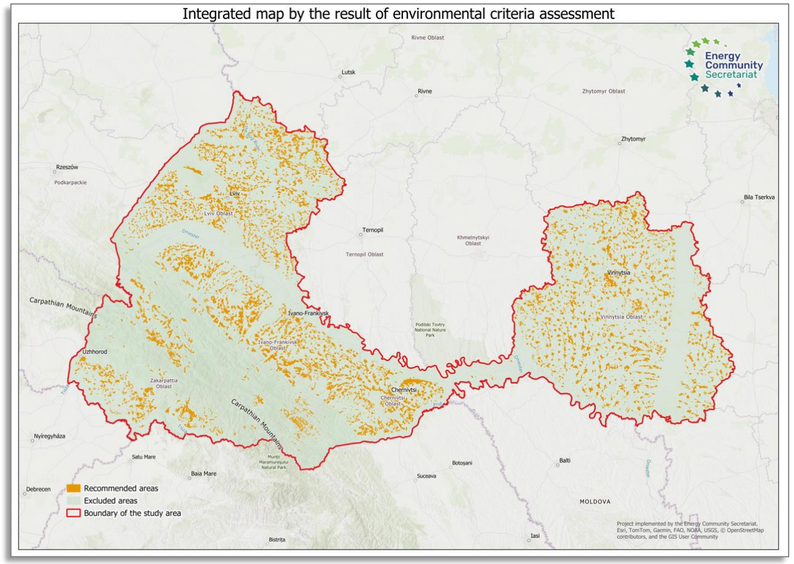


# Approbation on Pilot Regions

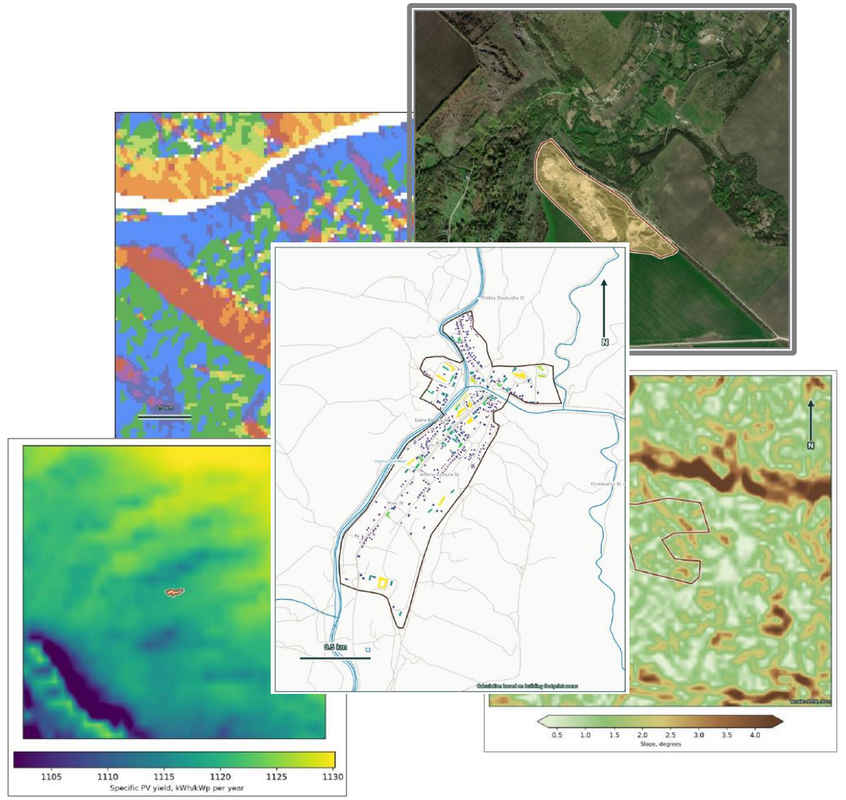
## Criteria Mapping




## Integrative Environmental Constraints Map



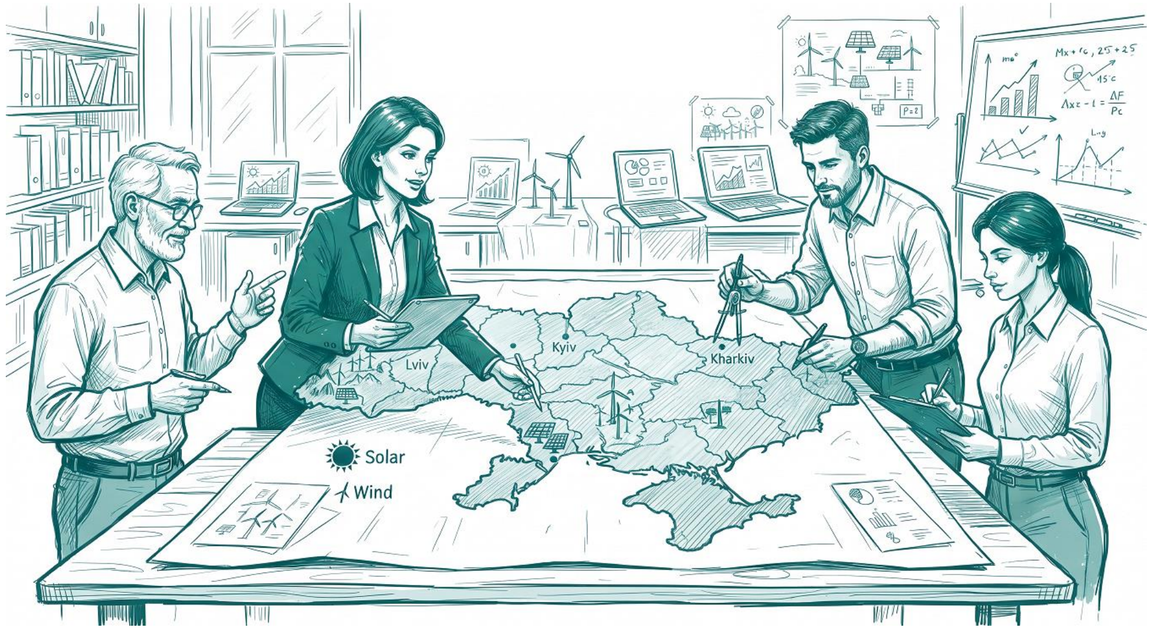

## Pilot Areas Assessment




https://www.energy-community.org/secretariat/budget/RAA/map.html#7/49.566/28.167

# Methodological Basis

**Cross-border Sustainable Renewables Acceleration Areas In Ukraine – Phase I + Phase II**




- recommendations on criteria implementation
  - ➢ to be clarified and detailed based on additional research
- specifics of individual types of RES facilities
  - ➢ to be considered
- data sources determined
  - ➢ to be used official sources
- defined low conflict areas
  - ➢ to be considered primarily
- planning constraints
  - ➢ to be assessed at the local level
- criteria set
  - ➢ may be applied pointwise to a specific territory of interest

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# THANK YOU FOR YOUR KIND ATENTION!

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Energy Community Secretariat
Am Hof 4, Level 5, 1010 Vienna, Austria