



## WIND LAB:

### JUST DEVELOPMENT OF WIND ENERGY IN NORTH-EASTERN BULGARIA



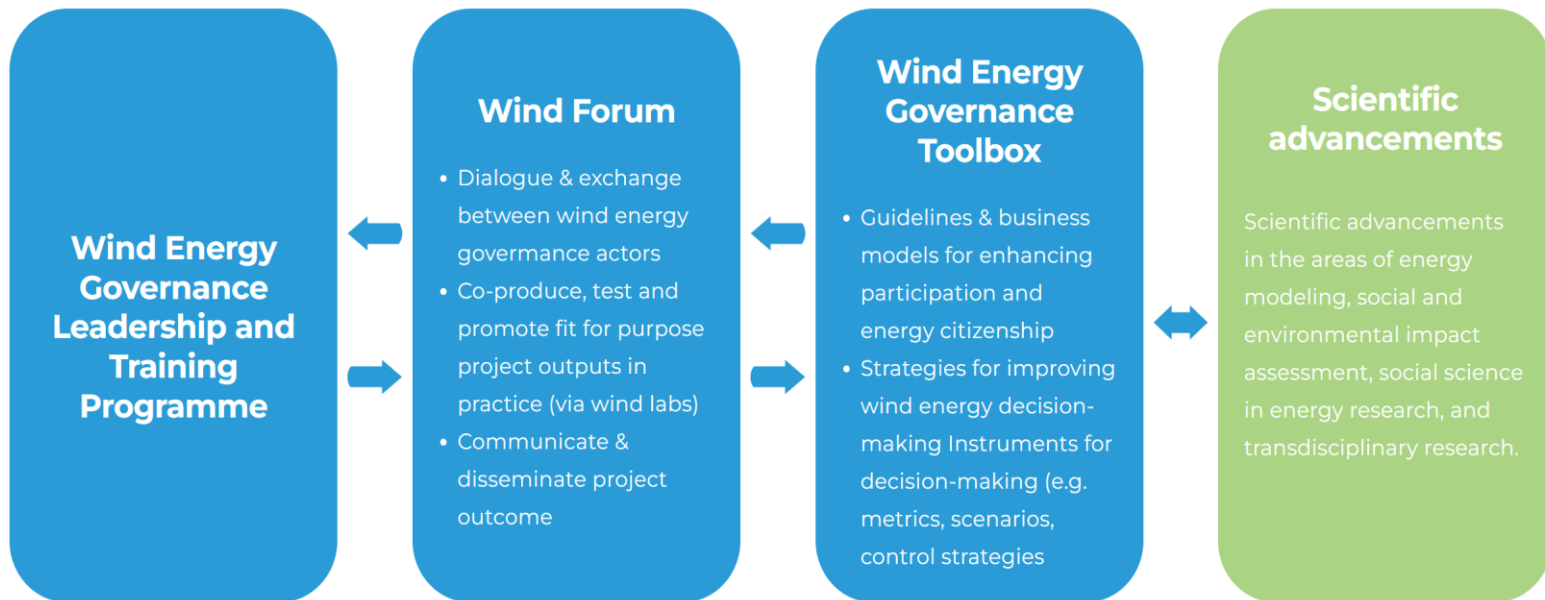
#### WIND LAB #2:

### *VOICES ON THE HORIZON: A CITIZEN PANEL DISCUSSION ON THE VISUAL EFFECTS OF OFFSHORE WIND FARMS*

*18 MARCH 2024*



# JustWind4All: “Справедливо и ефективно управление за ускоряване приложението на вятърната енергия”





## Objectives of Wind Lab

Основна цел: Изграждане на споделена рамка относно справедливо развитие на вятърната енергия в Североизточна България.



Дискусионен форум с възможност за привличане на външна експертиза  
Регионален фокус: Североизточна България, въпреки че темите касаят национални решения

Подход: генериране на идеи и съвместно търсене на решения от различни заинтересовани страни

Заинтересовани страни: разработчици на проекти, представители на общините, НПОта, енергийни агенции, министерства, академия, малък и среден бизнес, граждански сдружение, граждани





## Visual noise

- Distance from the coast
- Altitude
- Weather and atmospheric conditions
- Light reflection/ Angle of illumination of the turbines



# Wind Lab #2



Burbo Bank Wind Farm (348 MW located in Liverpool Bay on the west coast of the UK) photographed from Leasowe Castle Golf Course at point 1, approximately 7.9 km (4.9 mi) from the nearest turbine. The turbines are lit on the left, but mostly shaded. Visibility rating 5.00.

# Wind Lab #2



Burbo Bank photographed from Thurstaston Commons at point 1, approximately 14.2 km (8.8 mi) from the nearest turbine. The turbines are illuminated to the right, with 19 turbines fully illuminated and 6 partially shaded. Average visibility score 5.00.



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# Wind Lab #2



Thanet wind farm,  
300 MW, 100  
turbines,  
photographed from  
the Fayre Ness Hotel,  
approximately 12.3  
km (7.6 mi) from the  
nearest turbine. The  
turbines are backlit  
in the early morning.  
Average visibility  
score 5.00.





Thanet WWTP photographed from the Fayre Ness Hotel, approximately 12.3 km (7.6 mi) from the nearest turbine at night. Most of the white lights visible in the photo are marine navigation lights; red lights are aviation collision avoidance lights. The bright light in the center of the photo is an offshore substation.



# Wind Lab # 2

And what will be the effect in the Black Sea?



JUST  
WIND  
4 ALL





## The BLOW project: a first step towards innovation and new technologies in the Black Sea



# Wind Lab # 2



**What are your thoughts? Share here.**



<https://bit.ly/windlab2>

JUST  
WIND  
4 ALL

