

# Black sea fLoating Offshore Wind

*Stakeholder's Workshop*

*Constanta, 13 September 2023*

WP2.1: Feasibility study, Legal  
Requirements & Authorisation process

petroceltic



### 1. Production Platform Galata – in service (designed by Worley Parsons.)

UTM Coordinates in metres:

597196 E      4766450 N

23 km offshore Varna, Bulgaria

Water depth – 35m

### 2. Offshore Production Pipeline - 25km 14" pipeline

### 3. Onshore Processing Facilities

The existing onshore processing facilities (OPP) are designed to process  $2 \times 10^6$  Rm<sup>3</sup>/day with a maximum operating pressure of 65 barg.

#### - Separation

#### - Compressors

2 off Solar Turbine USA centrifugal compressors Centaur 40 – 4.5MW each.

#### - Dehydration

1 off TEG (Triethylene glycol) column with TEG regeneration package

#### - Auxiliary equipment

### 4. Onshore Pipeline

The current 12" onshore pipeline stretches the 65km from the onshore processing plant (OPP) to the gas metering station (GMS) this pipeline has a design pressure of 70 barg and deliver gas into the Bulgarian gas ring main at 55 barg.

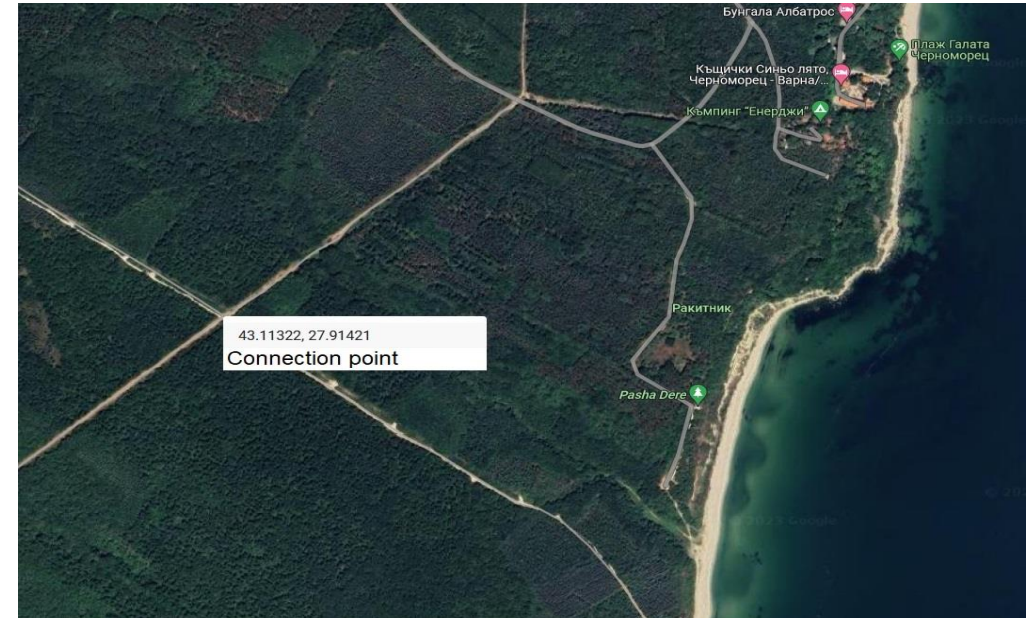
### 5. Metering station GMS

The current metering station, measures the flowrate of gas entering the Bulgarian ring main at the point of entry from the Galata system.



## WP 2.1. UPDATE

- **HIGH VOLTAGE 20kV Cable:** A 25km long static cable connects the floating turbine with onshore 20kV power grid network.
  - offshore length, appr. 23km. Submarine cable 3x95mm<sup>2</sup>
  - onshore length, 1 km. underground cable 3x95mm<sup>2</sup>



- Petroceltic pipeline – BLOW high voltage cable:
  - using Petroceltic pipeline servitude zone and permits for the cable installation. Including offshore and onshore part.



## REQUIREMENTS UPDATE:

- Cable connection EIA development and approval
- Cable connection project development and approval
- Cable grid connection development and approval
- Monetisation / Offtaker
- Energy sale agreement





# Thank you for your attention!



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