

Buoyant Production Technologies Ltd.

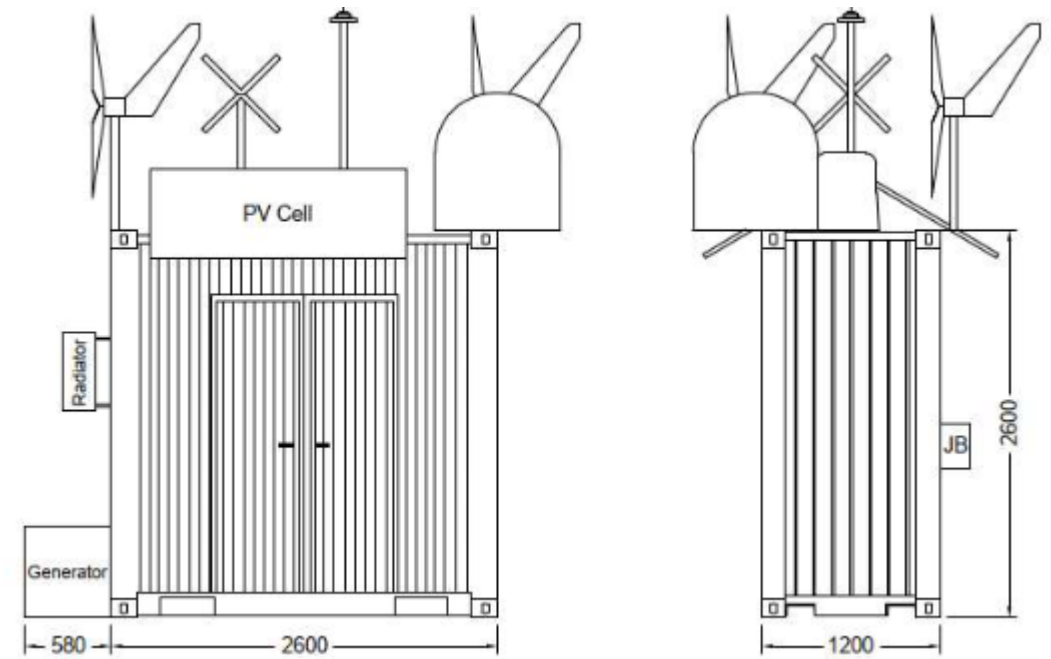
- BPT is a technology company wholly owned by Crondall Energy Consultants Ltd.
- Crondall Energy is a privately owned SME headquartered in Southampton with approximately 50 staff and we specialise in Offshore Energy projects:
 - Offshore Carbon Capture and Storage
 - Offshore Renewables
 - Offshore Oil and Gas
- In 2018 BPT was started up, to develop unmanned offshore technology solutions for future offshore energy projects



The BPT Demonstrator unit



The unit extends ~ 8m above the design waterline and so should not be visible from the shore ~ ~4.5km away



Principal particulars:

Displacement:	170 Tonnes
Structural weight:	50 Tonnes
Topsides payload:	2 Tonnes
Depth:	8.3m
Draught:	6.3m

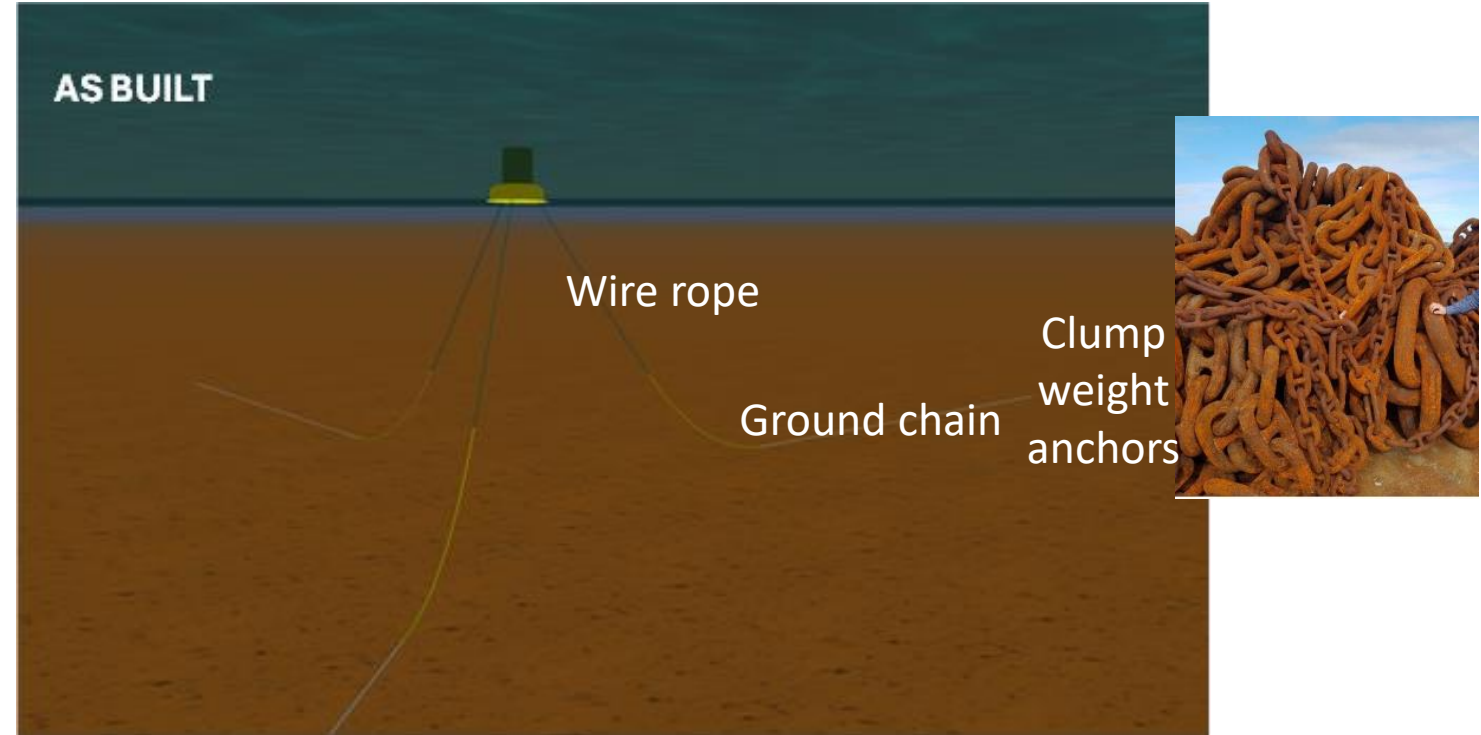
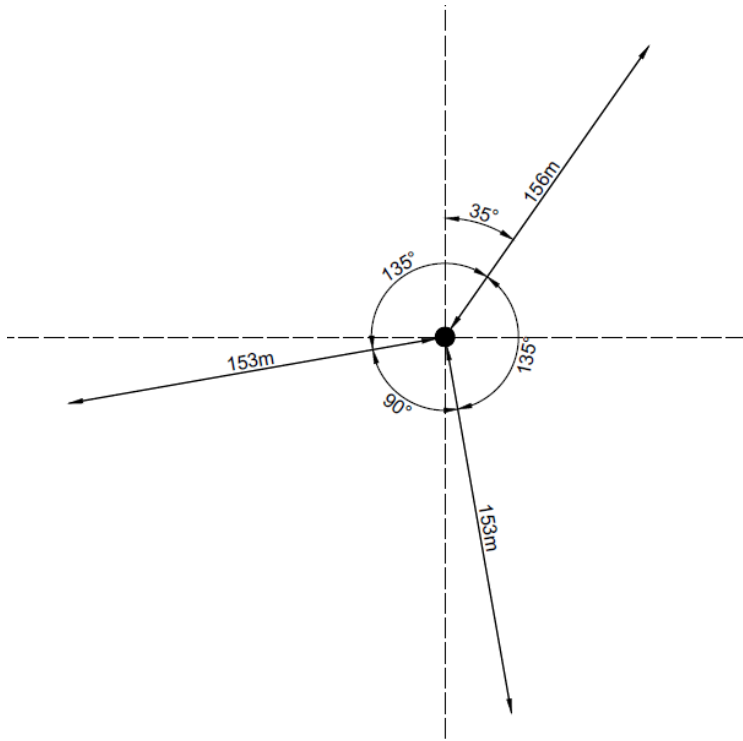
Topsides container:

- Hybrid power generation.
- Autonomous operation.
- Starlink and 4G comms.
- Control systems & power management.

Demonstrator mooring system

3-point mooring system comprising:

- Gravity anchors
- Ground Chain
- Wire rope



Offshore testing goals



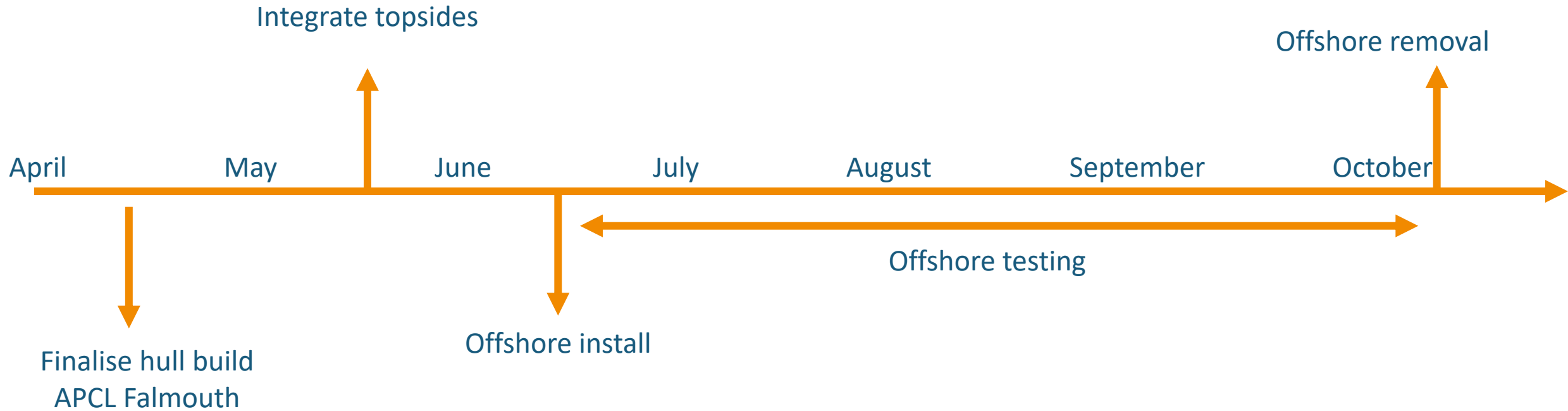
Testing remote power, control and communications.

Novel ballasting operation testing at APCL Falmouth.

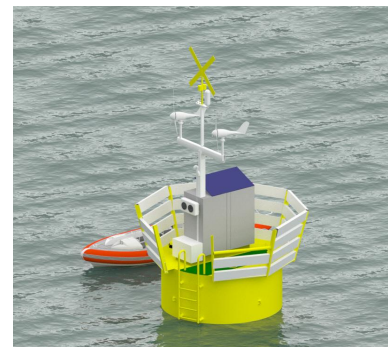
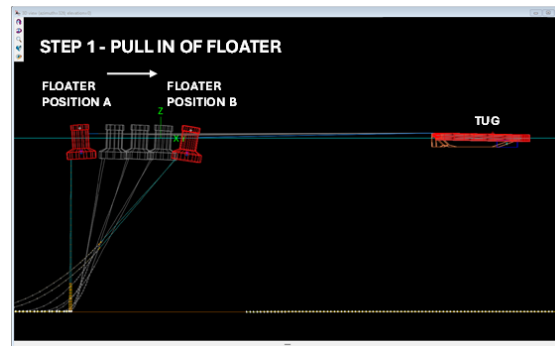
Small-scale hull, verification of motions performance.

Mooring sensors employed to verify machine learning tools.

Project timeline



Finalise hull build
APCL Falmouth



Future applications



Floating substation technology for FLOW projects



Remote power and control for subsea Carbon capture and storage projects and Hydrocarbon production projects

Why Falmouth?

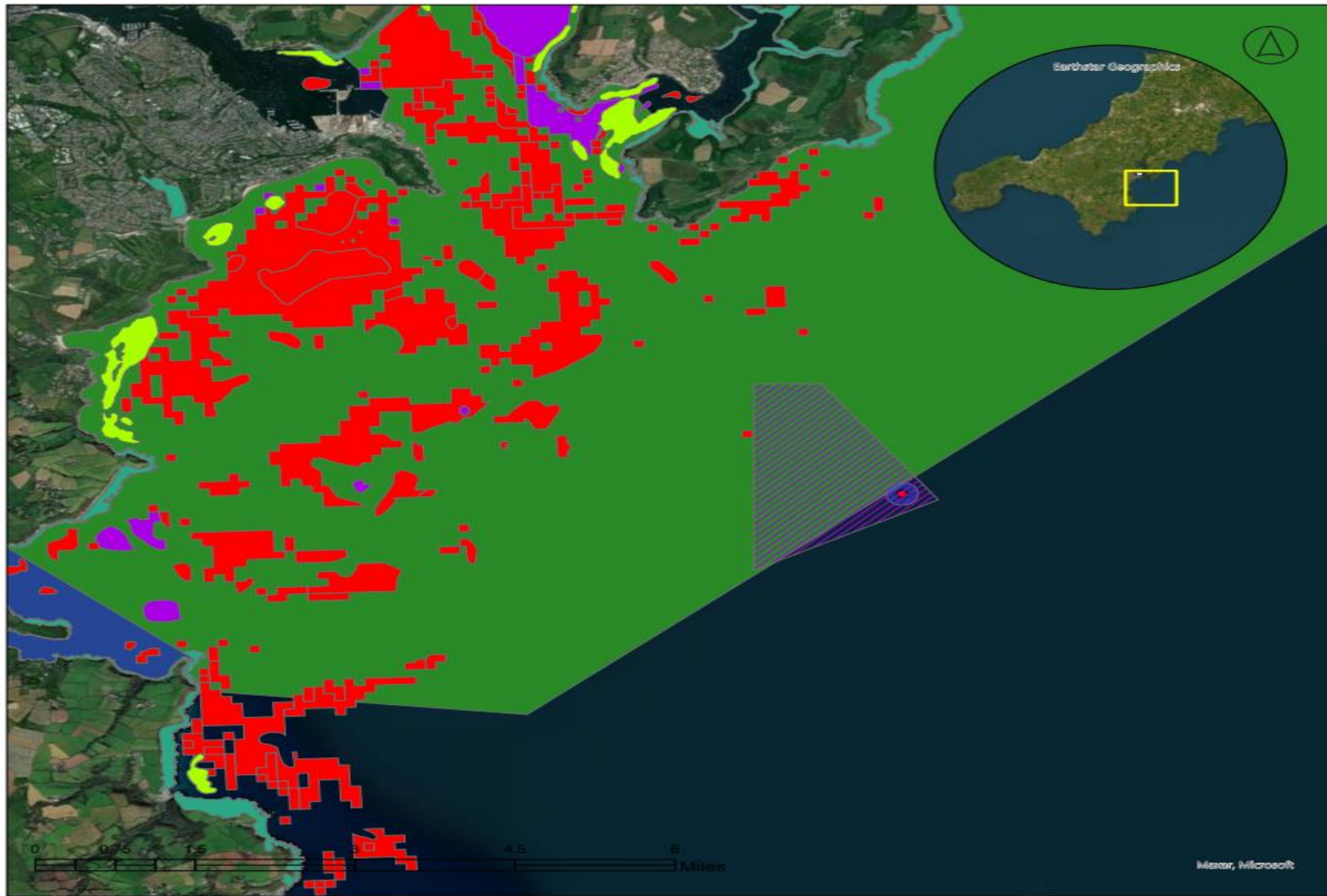
- Falmouth Bay Test Site (FABTEST)
 - Pre-leased test site
 - Ideal wave conditions and water depth for small scale demonstration unit
- Falmouth Port
 - Deepwater port
 - Skilled local fabrication facility APCL
 - Local vessel infrastructure



Falmouth's FaBTest Site

- Buoyant Production Test site location
 - Extreme SE Position of Test Site maximizes separation from the Special Protection Area (SPA) designation off the coastline & Sites of Special Scientific Interest (SSSI).
- Site location; 4.979913°W, 50.106231°N





Buoyant Production - Fabtest

- FabTest
- Buoyant_prototype
- Buffer_156m
- seagrass_extent_UoE_2021
- Live maerl
- Dead maerl
- MCZ
- SSSI
- GB_SPA_OSGB36_20220930

Bouyant Prototype new coordinates: 4.979913°W,
 50.106231°N
 Distance from -
 Dead Maerl: 1647.28 m
 Live Maerl: 4347.15 m
 MCZ: 6978.54 m
 SSSI: 4240.09 m
 SPA: 102.42 m

Client: Celtic Sea Power Limited	Project:
-------------------------------------	----------

Title: Buoyant Production prototype location in FabTest site, 156 m buffer

Figure:	Drawing No: 5506-ZOP-120225-Buoyant Prototype FabTest-3
---------	---------------------------------------------------------

Revision:	Date:	Drawn:	Checked:	Size:	Scale:
03	13-03-2025	WG	NF	A3	1:70,000

Co-ordinate system: WGS 1984 Web Mercator (auxiliary sphere)



CELTICSEAPOW
PŴERYMŌRCeltaidd | NERTHMŌRKELTEK

Celtic Sea Power Limited
 Room 7, Chi Gallos,
 Hayle Marine Renewables
 Business Park,
 North Quay,
 Hayle, Cornwall,
 TR27 4DD

www.celticseapower.co.uk

