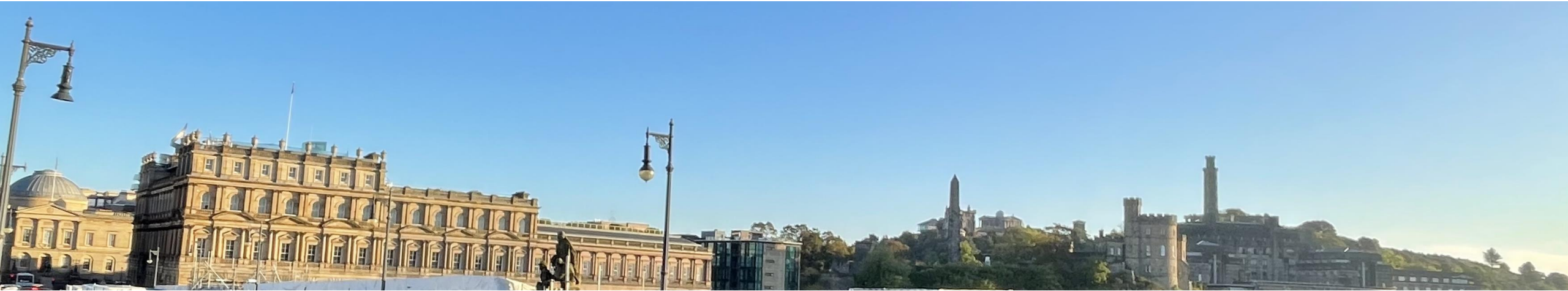


**Mark Spring
Technical Authority for
structures**



Triple Jump Gold

cautious steps, anticipating the big leap



Mark Spring, Technical Authority for structures

About us

Teamed with Japan's largest utility

Founded
2018

An **agile developer**, driving forward UK Floating Offshore Wind (FOW) roll out at pace

+2.5 GW

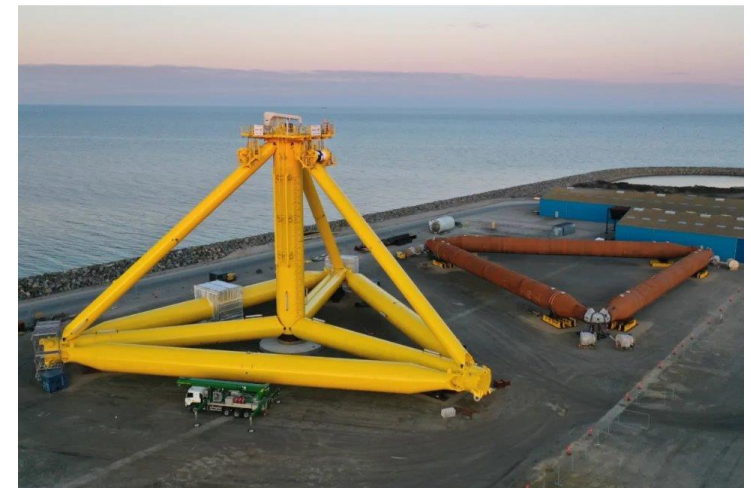
Secured UK pipeline in delivery (w/ innovation features) + growing, robust **international pipeline**

TEPCO RP

Acquired by **TEPCO Renewable Power** in late 2022. Resourced for delivery: 160+ global head count

FOW profile

Unique FOW experience, the logical **successor to Kincardine** Applied technical expertise – **insights embedded** in projects



Market context – exponential scaling

FOW ramping to 2-8 FWTS p.m 2030-2050

1. T&D sites



The world's current, largest operational floating windfarm is **88 MW** (11 turbines)

2. Scaling w/ Green Volt



Up to **560 MW** (~35 turbines)



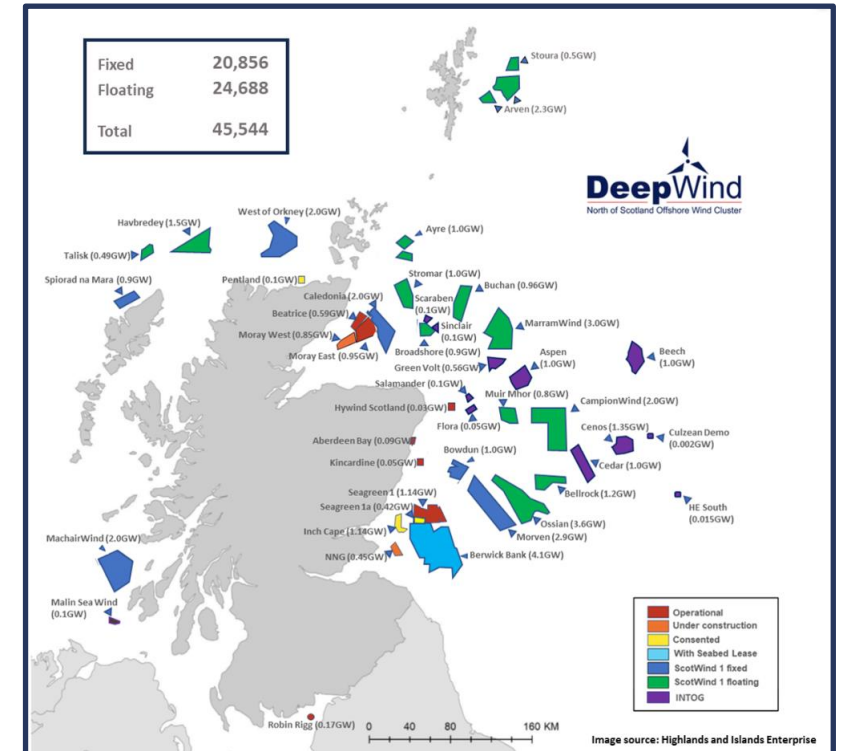
Up to **1400 MW** (~90 turbines)

£6bn+
GVA
to global economy



3. Cenoss @ 1.4 GW

4. ScotWind



Status check

Defining the opportunity

Scotland's
opportunity

+41 GW of OSW

KPIs:

Consented = 5%

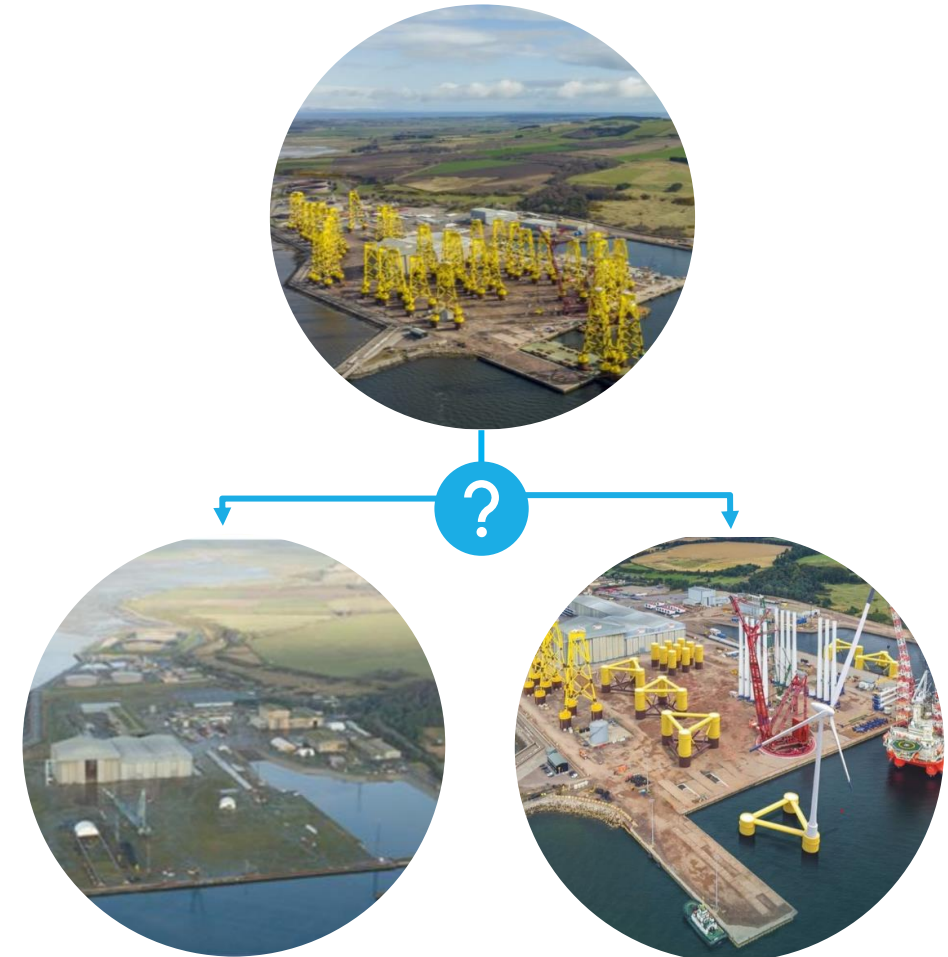
Consent submitted ~20%

Scoping submitted ~55%

No. FWTs – Pipeline vs WTG size

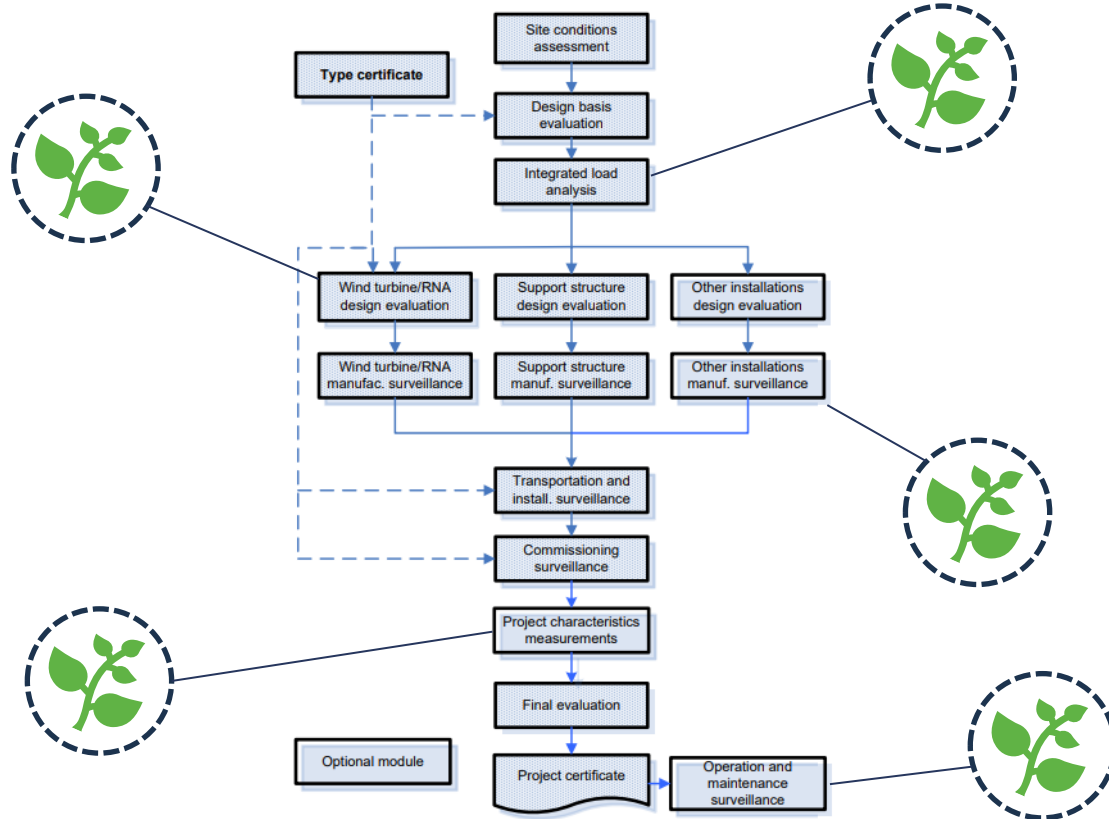
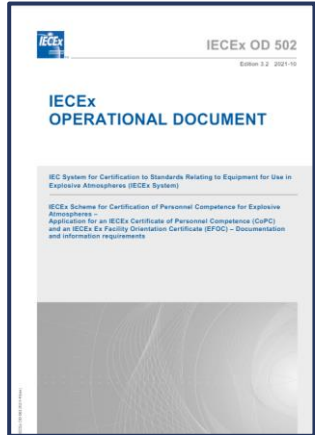
	15MW	20MW	25MW
10 GW	666	500	400
20 GW	1333	1000	800
30 GW	2000	1500	1200

= 25 – 100 FWTs/year for 20 years!



Risk and opportunity – a developer's view

Incremental risk reduction – based in “compliance”



“Turbines require heavy maintenance”



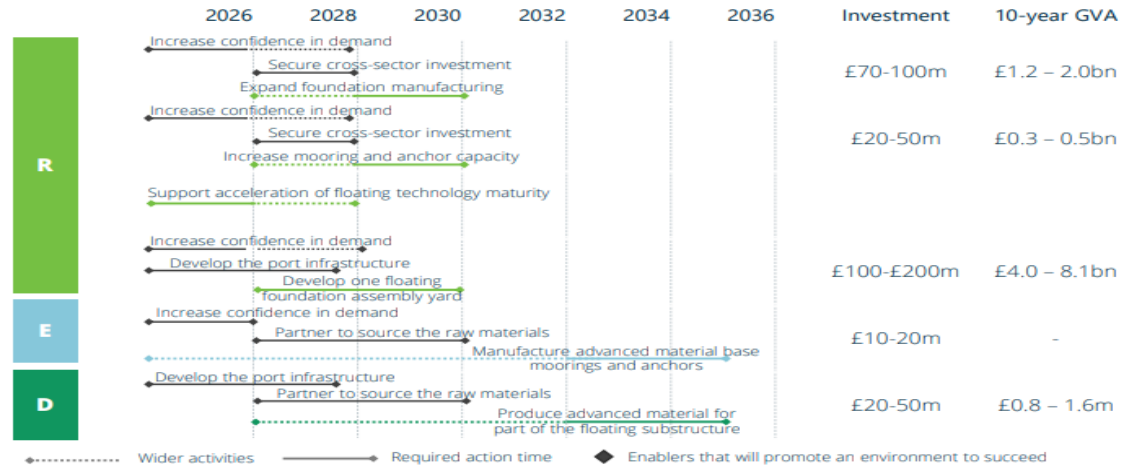
“Offshore windfarm reports 63% capacity factor”

UK industrial growth plan

Setting the challenge and the pace

(R)espond, (E)xpand and (D)isrupt Programmes

Investment in manufacturing and standardisation of foundations, particularly for floating projects and deeper water fixed bottom water, would help the UK capitalise its first mover advantage in the floating offshore wind space, becoming a market leader in supply.



Environment to succeed enablers



2024 Offshore Wind Industrial Growth Plan

Expanding the Horizon of the UK's Offshore Wind Supply Chain

Commissioned by: **RenewableUK**, **Offshore Wind Industry Council**, **THE CROWN ESTATE**, **Crown Estate Scotland**

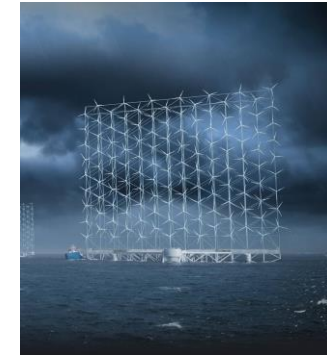
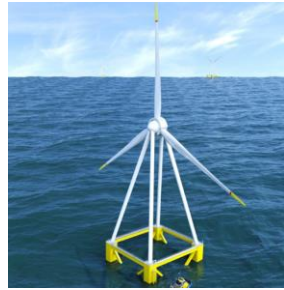
Strategic investment = more than developers

Timeline transparency would be a big step

Aligning behind IGP will drive commonality

Disruptor technologies

Friend or foe of industrialisation and scale?



Serialising and scaling

Progressive substructure design derisking commercial opportunity



Shipyard construction

- Mature methods
- +4 months / unit



Modular assembly

- Mature methods
- immature logistics
- 1-3 months / unit



Modular rapid assembly

- Immature technologies
- Immature logistics
- <1 month / unit



Thank you
markspring@flotationenergy.com