

# Getting the Offshore Wind Vessel Projection Right

OWJ Feb 26, London

Renew<sup>o</sup>marine Ltd



Where is the new reality we find the sector in.....

# Who am I:

- Stephen Bolton CEng, MBA, LBS SEP
- 25 years Offshore Wind Sector
- Past 10 years dedicated focus on SOV / CSOV technology
- Operating independent since July 23 supporting;
  - All things SOV / CSOV
  - Strategy & Business Plan; defining / planning / implementing
    - RM Strategy Jigsaw™ approach
  - Stakeholder engagement; direct and LinkedIn campaign based
  - Equipment contracting and deliver; inc 1.25MW shore charging box based on marine type approved battery technology
- Clients:



Plus:

- Various consultant houses
- International Bank
- And more...



# Agenda

1. Introduction
2. A process not a chart
3. Fundamental Input
4. Assumptions
5. Latest results – powered by
6. Comments
7. Final Thoughts



# Introduction

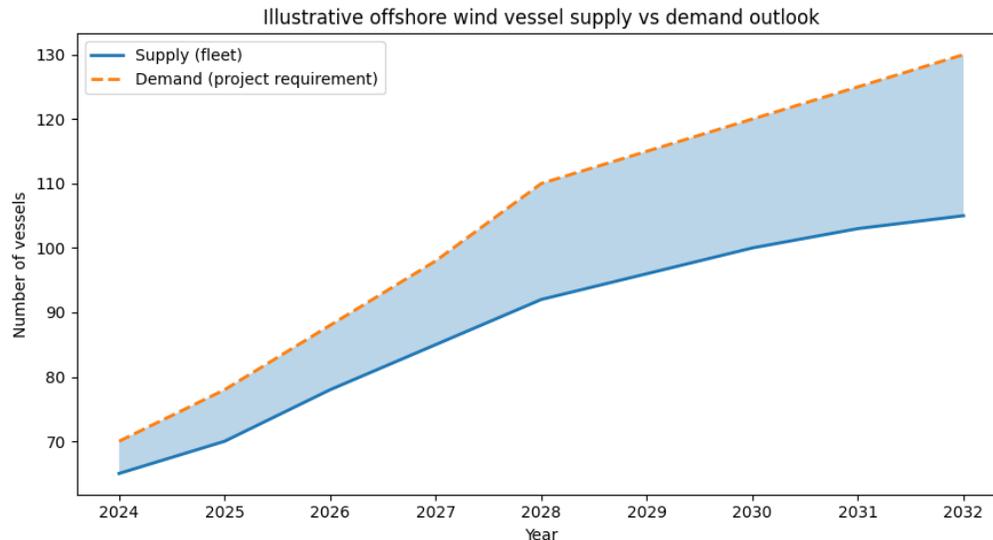
Vessel supply / demand analysis follows a process, its NOT a chart:

## A Process:

### 1. The Question:

“Is there a supply / demand gap in this vessel class”

### 2. The Answer:



### 3. The Outcome:

“Lets order vessels”

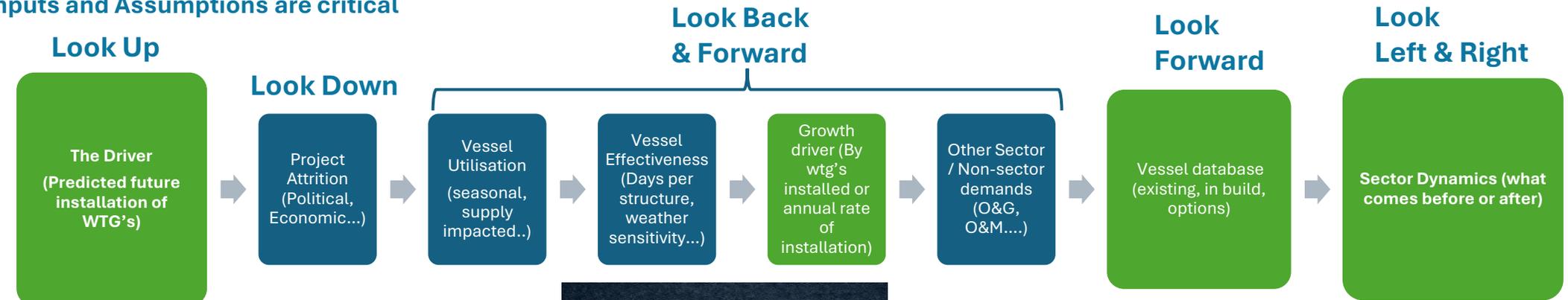
## The reality:

The chart presents a view, someone’s view, at a point in time.

How aligned / understanding are you of the uncertainties in their process?

# The Process

Inputs and Assumptions are critical



**FACT + Knowledge**



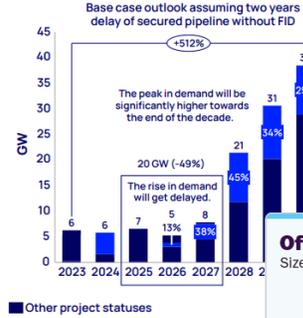
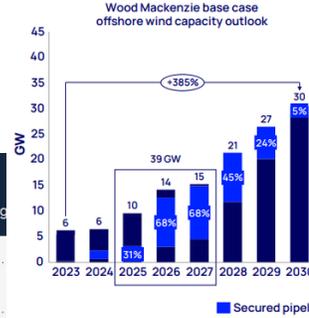
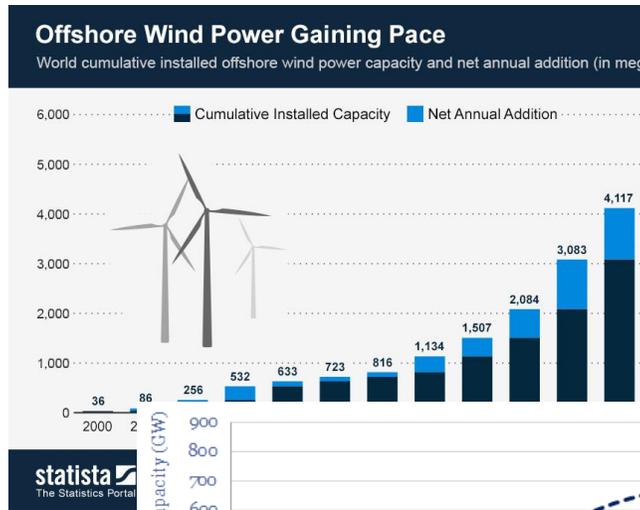
**However:**  
Data is not sufficient  
Sector understanding is required  
And beware of top down data

**A high degree of future unknown; over ~20 years!**

# The fundamental Input

The easy part in your process

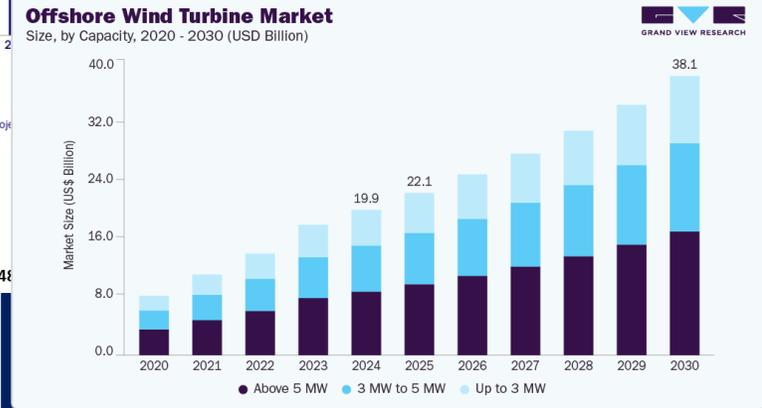
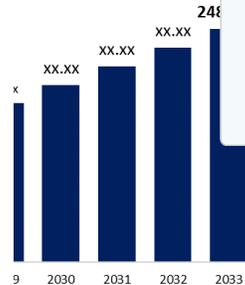
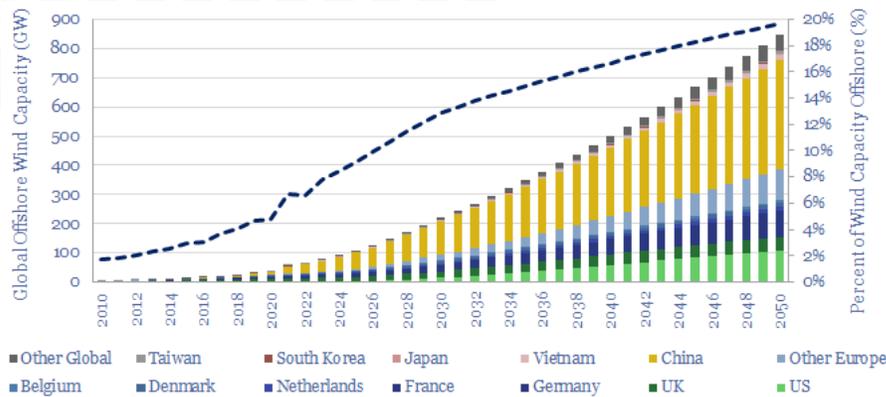
- Data sources exist.....



Note: The base-case outlook with a two-year delay assumes all projects forecast through 2030 get built. In reality, delays in project start would probably push some other projects into the next decade because of supply-chain expansion challenges.

Source: Wood Mackenzie, excludes China

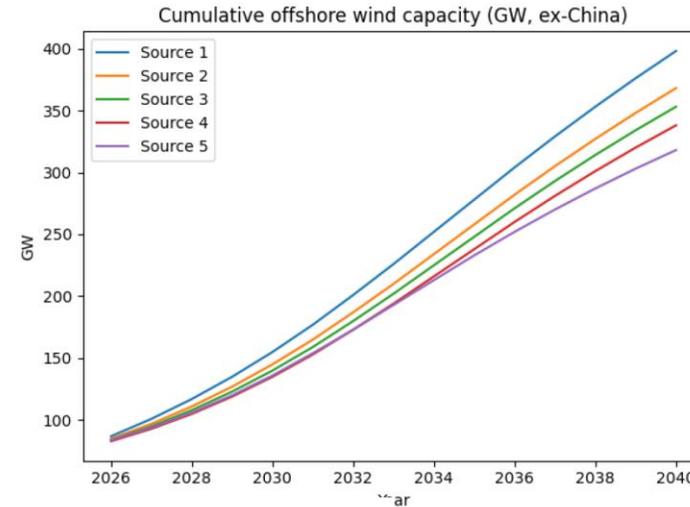
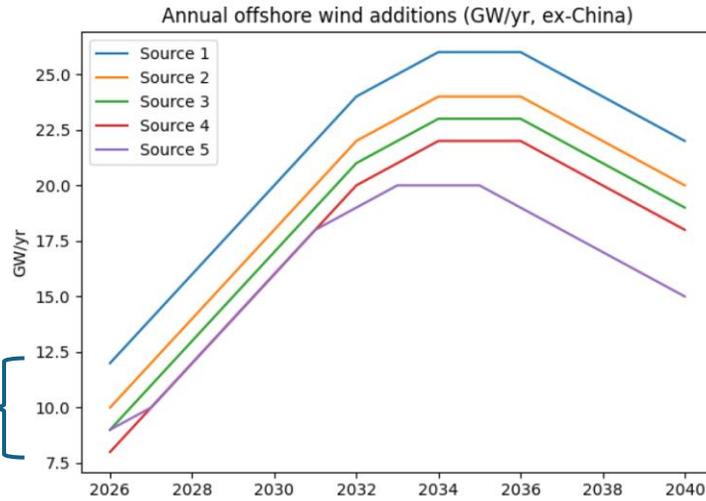
## Offshore Wind Energy Market



- Your expert will have their version
- All is good.....or is it.

# The fundamental Input (2)

Actually its the biggest RISK in your process



Highest is >1.5 x lowest  
Same impact on vessel demand

Milestone year	Min cumulative capacity (GW)	Max cumulative capacity (GW)	Absolute variance (GW)
2025	75	75	0
2030	135	155	20
2035	233	278	45
2040	318	398	80

Almost equivalent to everything built in 25 years!!

- Maybe ask a few?
- Maybe understand the deltas / form your own opinion?

# The assumptions

## Stock or Flow focus

### 1. O&M = Stock

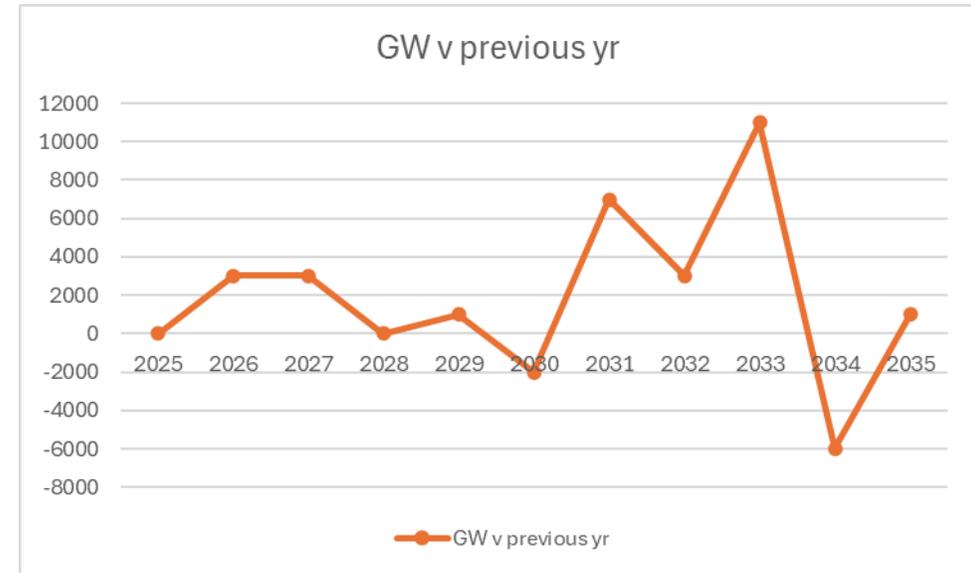
Vessel growth grows cumulatively with wind farms installed

Always grows if wind farms are being built.

### 2. Construction = Flow

Vessel growth is aligned to rate of deployment in given year

Requirement can reduce if the rate of deployment decreases



Logic applies to all Construction related vessels.

A forward curve of cumulative growth does not mean year on year additional vessels!

# The assumptions (2)

## OtherS

### Other sector demand

- Relevant to all vessel types
- From:
  - O&G (its growing impact)
  - Offshore wind O&M pull (MCE and more)

### Fleet Size

- Existing
- Future
- Options / versus likelihood
- Cabotage

### Brochure versus reality

- Very relevant to WTIV / HLV market
- How is crane defined; above deck / sea?
- Is a crane curve available
- Rigging impact
- Is mission equipment available
- MAJOR CONSIDERATION as we move to >15MW / XXXL monopiles

**Bottom up analysis needed, not top down  
Project specific analysis needs to follow**

Planned and announced FPSOs, Rest of the World 2025-2030									
Name	Country	Build type	Status	Operator	Participants	Associated field	Start year	Oil Prod (mbbl)	Gas Prod (mweftd)
Johan Castberg		New Build	Planned		Eri SpA (20.88%) Equinor ASA (50.00%) HitecVision AS (9.12%) Petoro AS (20.00%)	Dron, Hævi, Johan Castberg, Skrugard	2025	189	290
Petrojarl Knarr		Conversion	Planned		Brookfield Corp (100.00%)	Rosebank	2027	63	47
Buchan Redevelopment		Conversion	Announced		HitecVision AS (50.00%) Jersey Oil and Gas Plc (20.00%) Serica Energy Plc (30.00%)	Buchan Redevelopment	2027	-	-
Hummingbird Spirit		Conversion	Announced		Dagang NeKchange Bhd (90.00%) Ping Petroleum Sdn Bhd (10.00%)	Avallon	2028	25	-
Cheviot		New Build	Announced		Waldorf Production Ltd (100.00%)	Cheviot	2028	-	-
Cambo		New Build	Announced		Delek Group Ltd (100.00%)	Cambo	2028	-	-
BW Opal		New	Planned		BW Offshore Ltd (100.00%)	Barossa	2025	11	850
Equus		New	Announced		Western Gas Corporation Pty Ltd	Equus	2027	-	-
Browse 2		New	Announced		BP Plc (44.3%); China National Petroleum Corp (10.4%); Mitsubishi Corp (7.20%); Mitsui & Co Ltd (7.20%); Woodside Energy Group Ltd (30.60%)	Browse, Torosa	2030	-	1,100
Browse 1		New	Announced		BP Plc (44.3%); China National Petroleum Corp (10.4%); Mitsubishi Corp (7.20%); Mitsui & Co Ltd (7.20%); Woodside Energy Group Ltd (30.60%)	Brecknock, Browse, Calliance	2030	-	1,100
Polok and Chimwol		-	Announced		Harbour Energy PLC (25.00%); Petroleum Nasional Bhd (28.33%); PTT Public Co Ltd (16.67%); Repsol SA (30.00%)	Chimwol, Polok	2028	-	-
Bay du Nord		New Build	Announced		BP Plc (35.00%); Equinor ASA (65.00%)	Bay du Nord	2028	188	-

# Latest Results

“Renew Marine powered by Intelatus”



Based on a Q1 2026 bottom-up analysis  
Foundations and Turbines – Intelatus  
CSOV’s – Renew Marine

**Bottom- Up:**  
**Every project has been considered individually**  
**Every vessel has been considered individually**

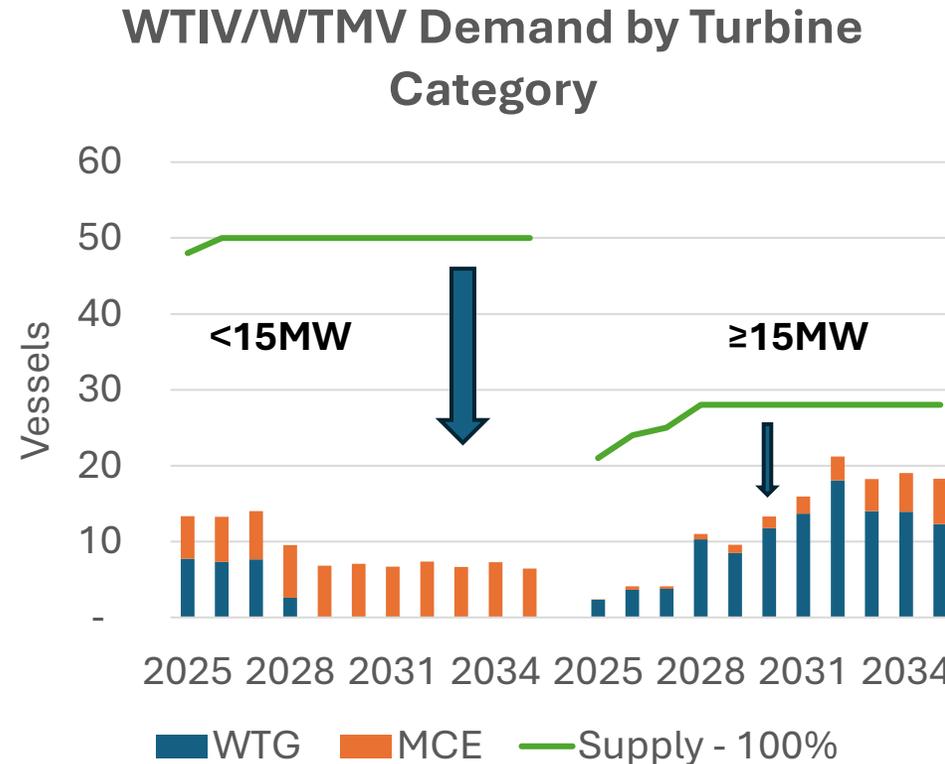


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# Wind Turbine Installation

## Oversupply

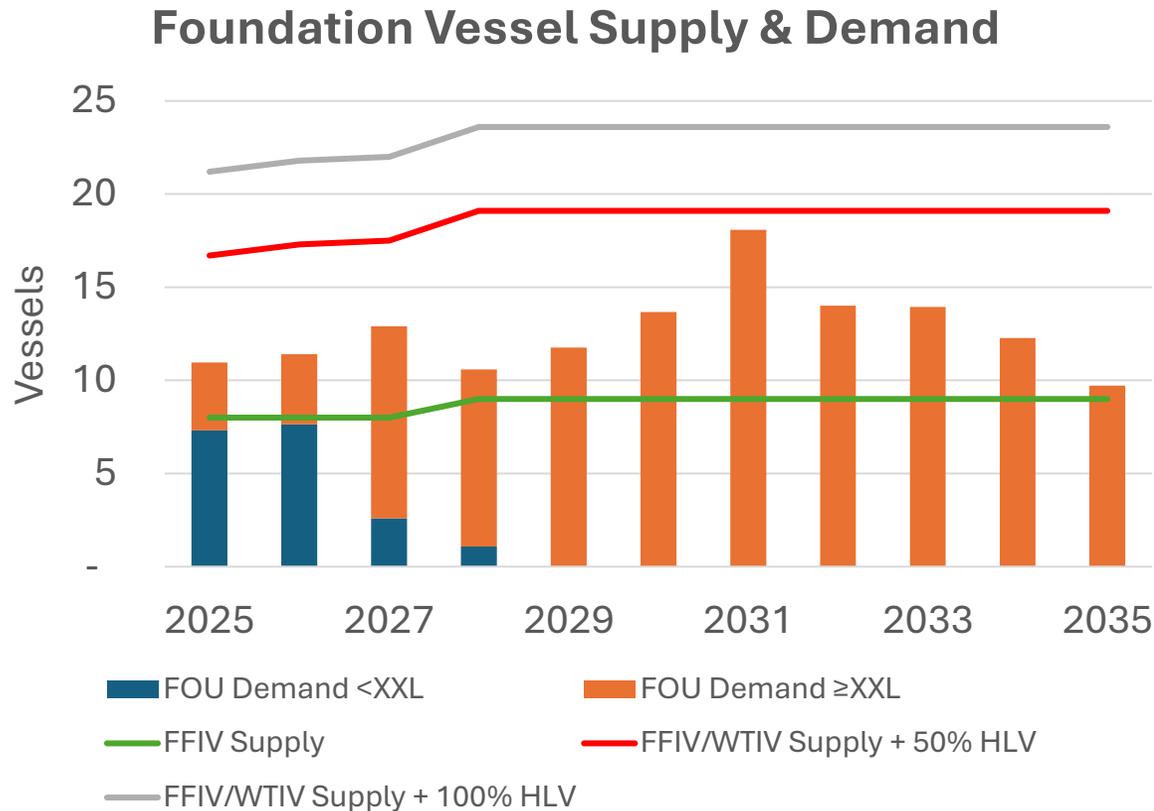


## Biggest threat

- O&G pull
- Likely limited to <15MW class vessels

# Foundation Installation

Complex at best!



Pure FFIV basis is under supply

Needs support from HLIV market:

O&G impact

Efficiency impact



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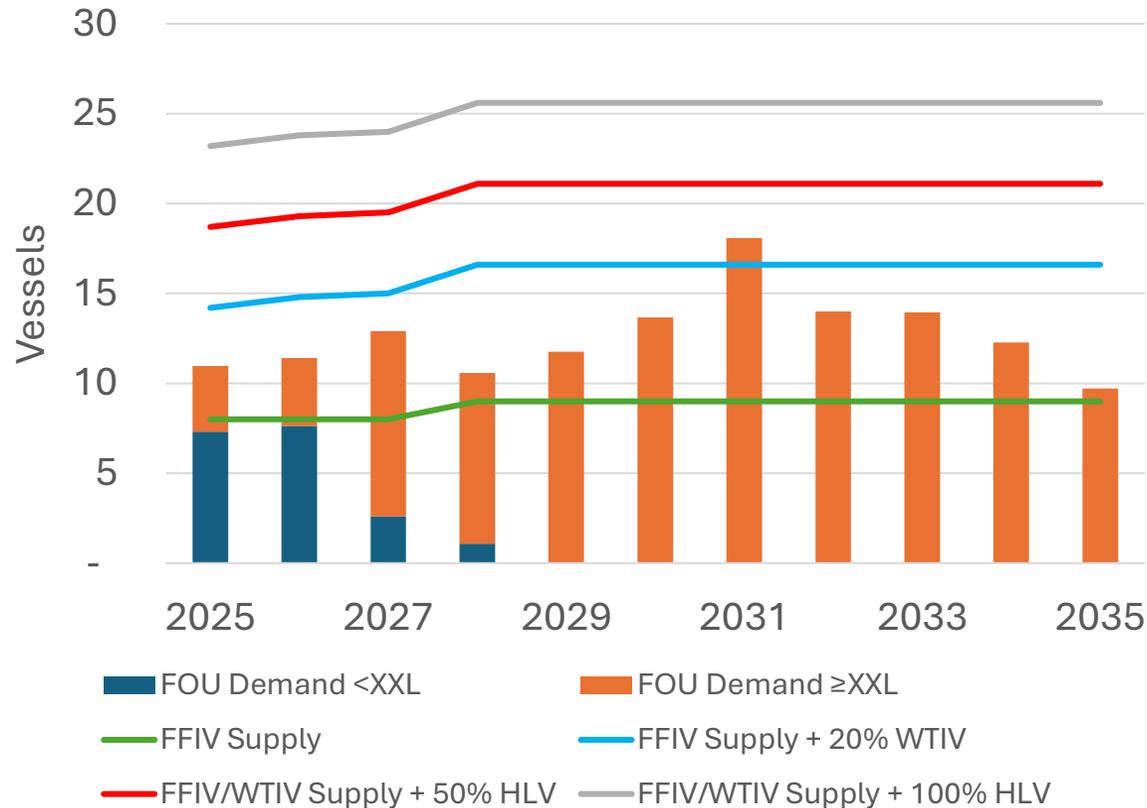
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# Foundation Installation

## WTIV support



## Foundation Vessel Supply & Demand



WTIV support seems key?

Is a WTIV company the same as a FFIV company??

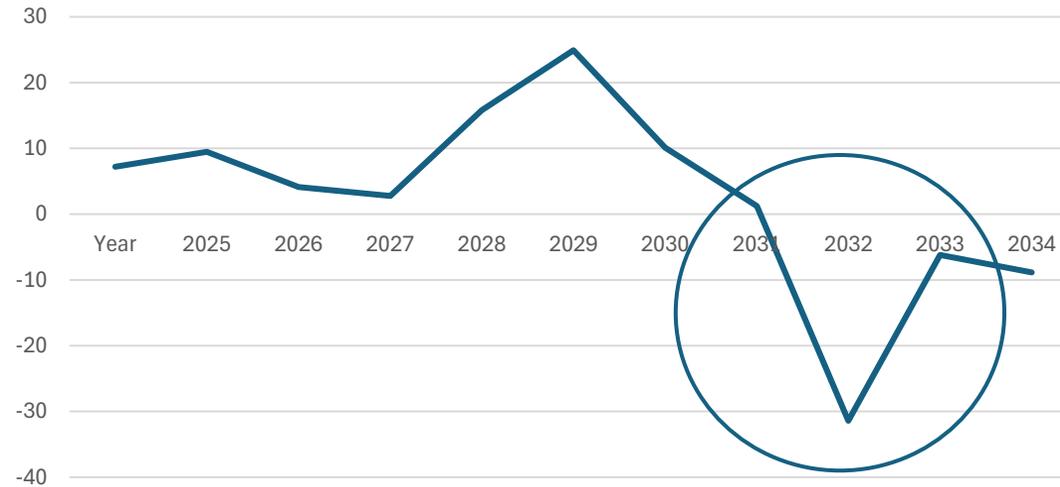
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# CSOV Demand

Oversupply to Undersupply to Balance

CSOV over (+ve) / under (-ve) supply  
 RM Jan 2026  
 Powered by Intelatus



Oversupply extends to 2031

Highly sensitive to WTG size

Peak build in 2032

Change in AVG WTG size 2032



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# Comments

Nothing is certain; A view at a point in time

## Acceptance of Chinese OEMs.

- Scale of entry of Chinese installation and maintenance vessels to European, EAPAC and other markets.
- They are here in relation to foundations, cables and a lot of vessels that dock in Europe each day if not hour

## Black swans.

- Think USA...Technology changes...
- FUEL! – what impact will it have?

## The Target driven kicker

- I mentioned it at the start.....is it still present?...does it deserve to be?...is it a / the driver for vessel oversupply?

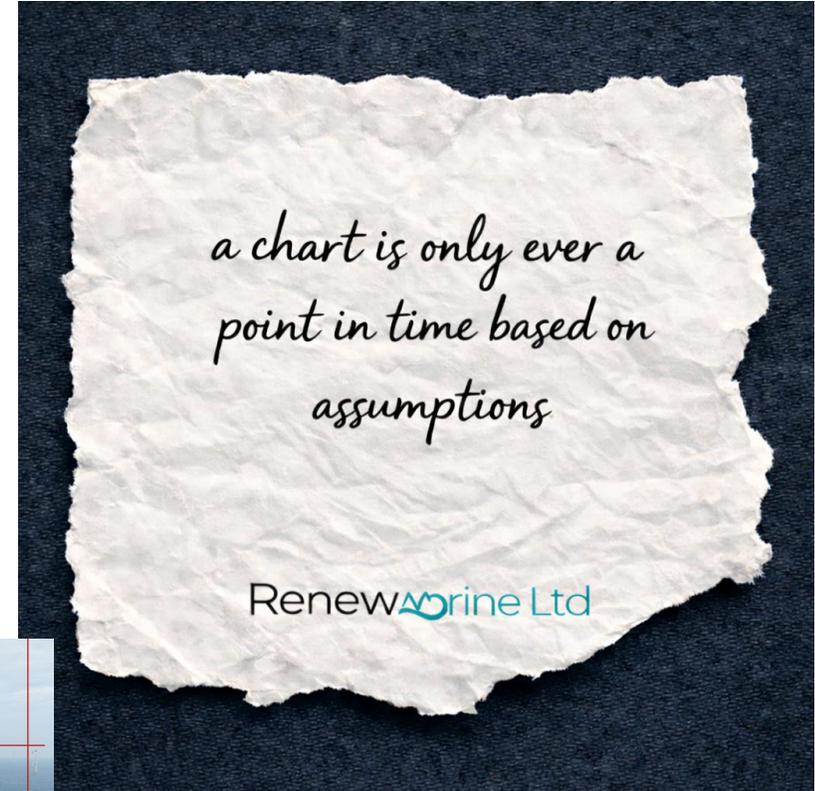


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# Final Thoughts



**Reach out, here to help!**

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