



Society of Offshore Marine
Warranty Surveyors

MWS Future – Where are we heading?

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MWS PROCESS AND EGAGEMENT



Essential that we are of one voice to the market and our clients if we are serious about achieving an improvement for all SOMWS Members !

As Identified by our prior panels, there are a few MWS process and contracting matters to be fixed

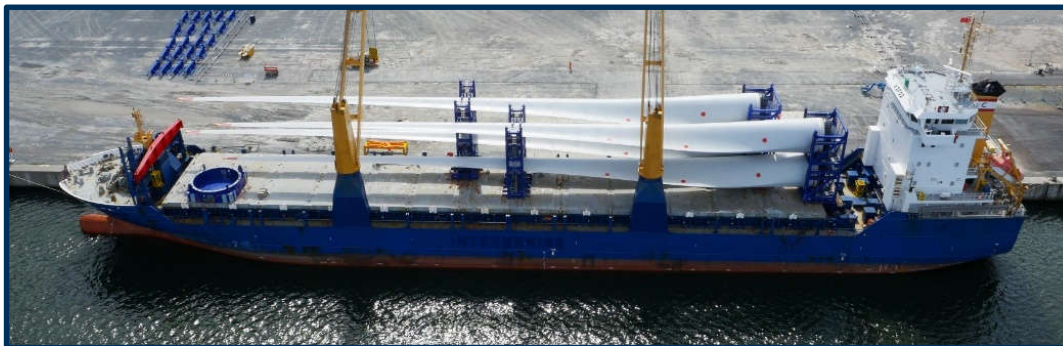
Hopefully, we can implement! But no-doubt there will be some challenges.....

THE WORD ON THE STREET

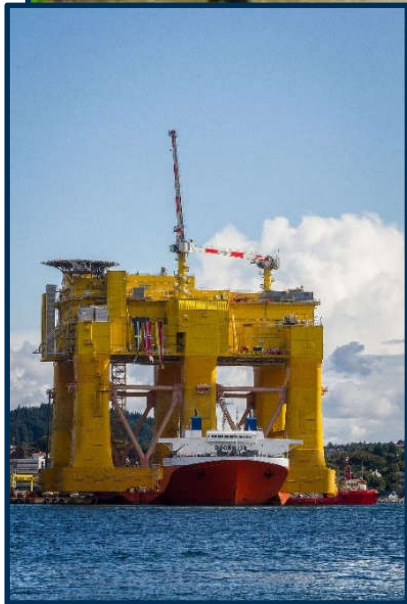
- **Offshore Wind – Bigger fixed and commercial scale floating.**
- **It's Electrifying! - Facilities re-powering & Interconnectors.**
- **Explosive enthusiasm for Hydrogen/Ammonia.**
- **CCUS – The great hope for the O&G industry?**
- **The mysterious world of Cyber & AI.**
- **ESG & climate change – Requirements and commitments affecting us all.**
- **Litigation is the new black.**

What does this all mean for the MWS Market?

OWF - Component Sizes and Values Increasing



OWF – Type/complexity of operations driven by industry trends



- Values & operations now more akin to large Oil and Gas projects.
- But are MWS scopes and Contracting/Budgets appropriate?



OWF – Cables



- Cable lay has certainly evolved
- But losses continue to occur (normally with no MWS presence)

- Again, are scopes appropriate?
- Is there more the MWS can do?

OWF – Is the industry equipped for floating wind?

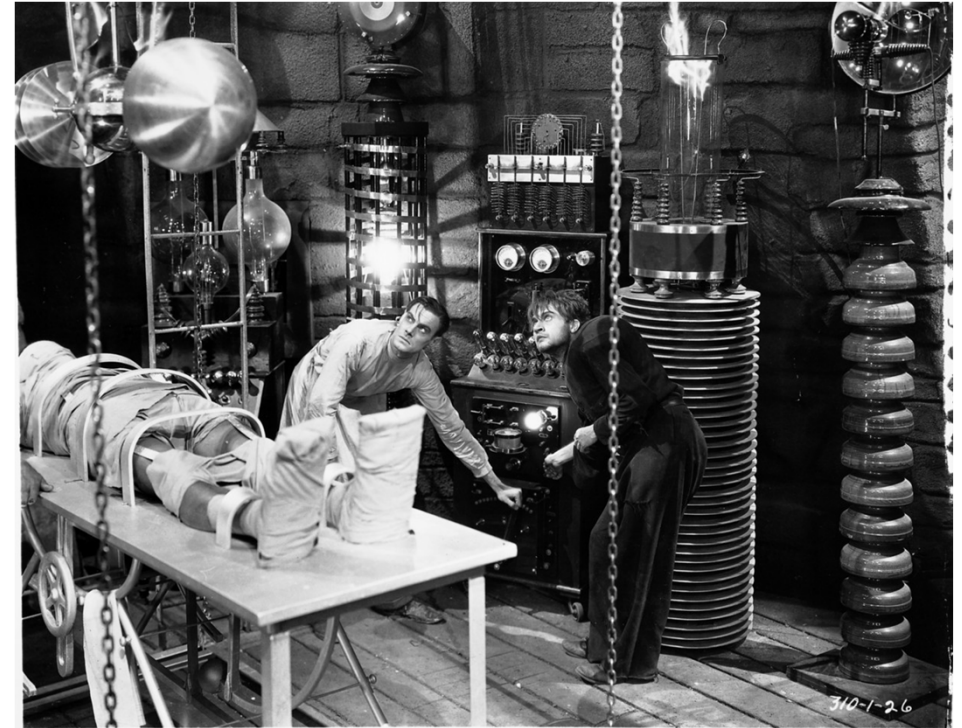


- Construction/ integration Afloat.
- Wet Tow Or Dry transport on HLV
- Mooring transport and Installation.
- Hook-up to mooring
- Ballasting
- Cable Risers/ Pull-in's

- **Yes It can be, if it is prepared to use O&G experience, technology & methods – but this comes at a cost.**
- **The rapid increase in traditional Energy COs into floating wind should help – But commercial realities will win-out.**

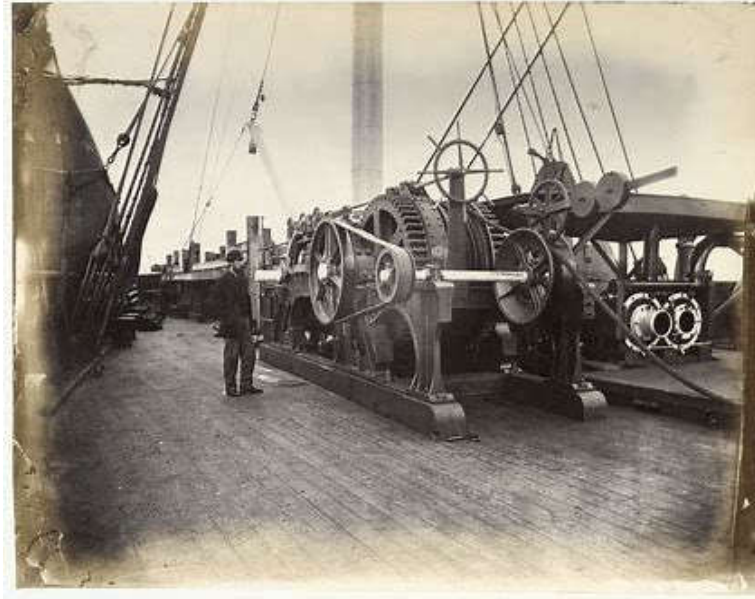
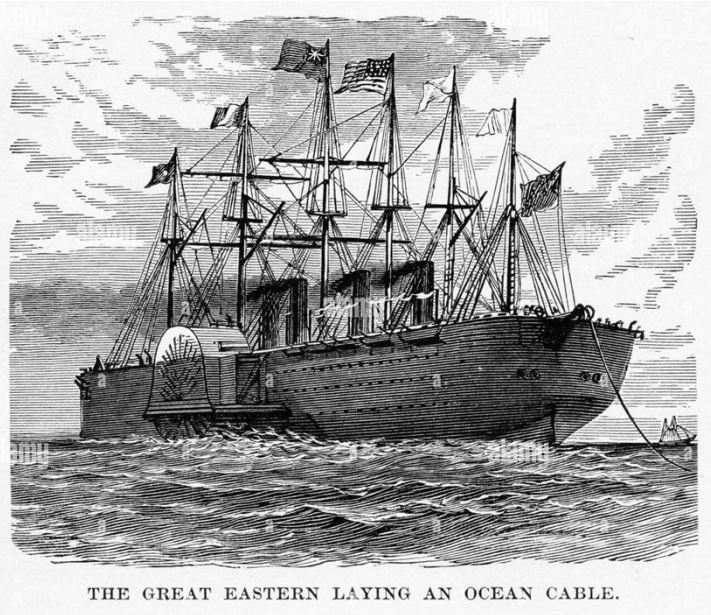
ELECTRIFICATION – Facilities Re-powering

- From a marine operational perspective, the T&I of new transformer, switchgear modules, or similar, to an offshore asset is not new



- Focus on shut-down and re-commissioning /hook-up for safe re-start-up and operation to be considered perhaps?

ELECTRIFICATION - Interconnectors



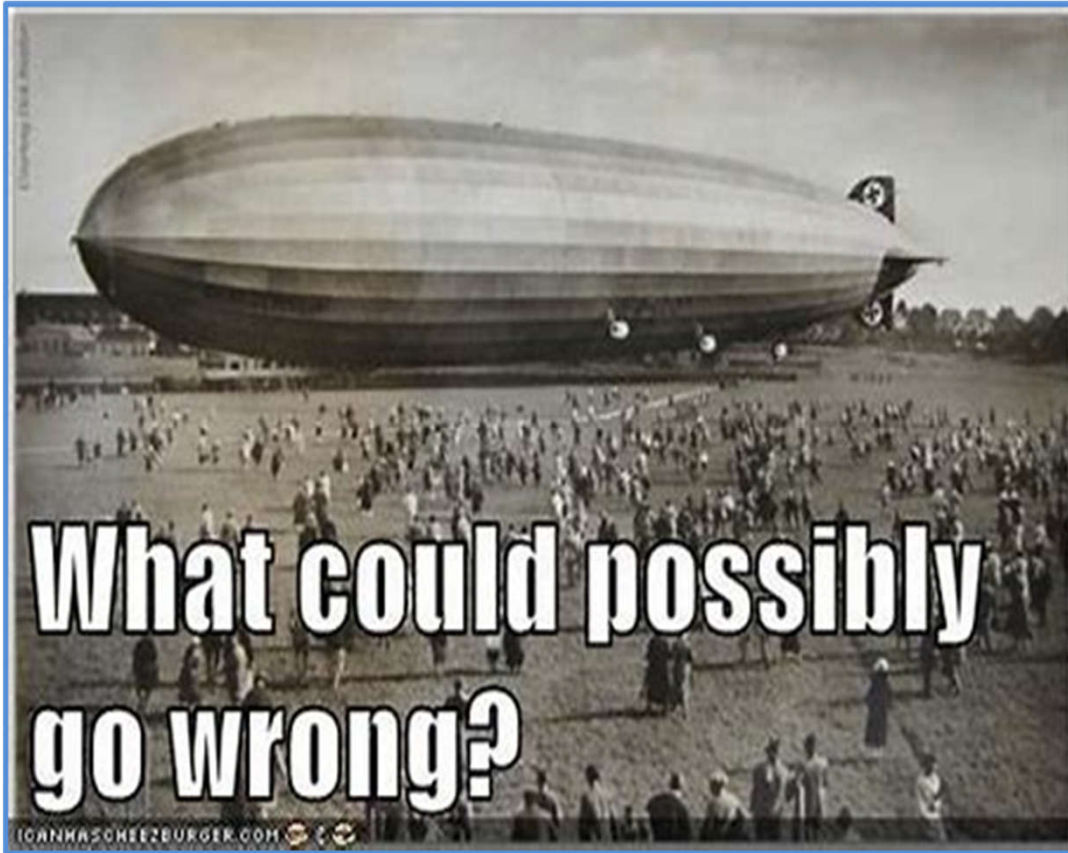
- Long Distance Cable Lay is not new.
- But neither are the claims associated with cables.

- Increased momentum as part of critical national infrastructure and increasingly seen as solution for new OWF to by-pass inadequate local grid connection
- Significant innovation ongoing to develop new, more reliable cables. The EU super grid is proposing the use of superconductor technology.

ELECTRIFICATION - Interconnectors

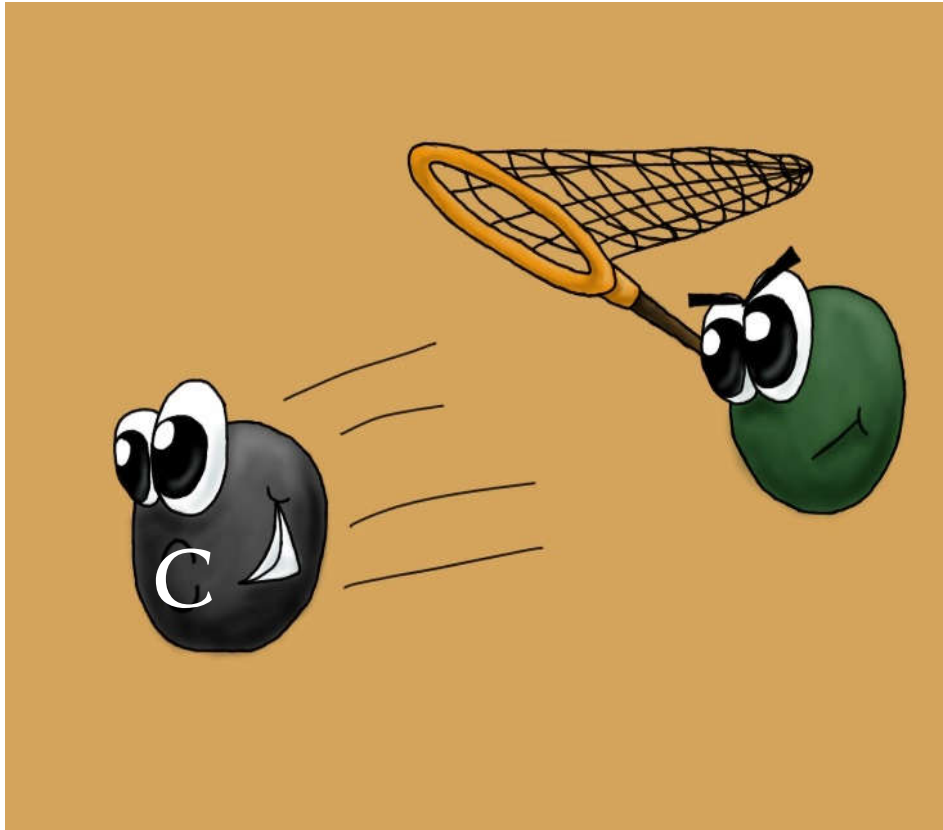
- **This will necessitate technology review and qualification prior to acceptance and Installation and handling of the new products will need to be closely monitored..**
- **There remains the challenge between durations for long interconnectors v/s weather criteria/windows. Unavoidable need to cut and abandon or pre-determined lengths with factory terminations?**
- **More focus on cutting/termination and re-splicing protocols and pre-deployment testing probably required, along with more-active monitoring.**
- **Will the market bare the cost of increased MWS attendance?**

HYDROGEN



- Probably more a consideration for operational cover than CAR or Marine Transit policies.
- After all, Fundamentals of the Hydrogen facility T&I will be the same as traditional O&G facility.
- But what about later phases proximate to a Hydrogen facility.
- Is there a need to consider new risks such as associated with hydrogen powered marine spreads used for T&I?

CCUS

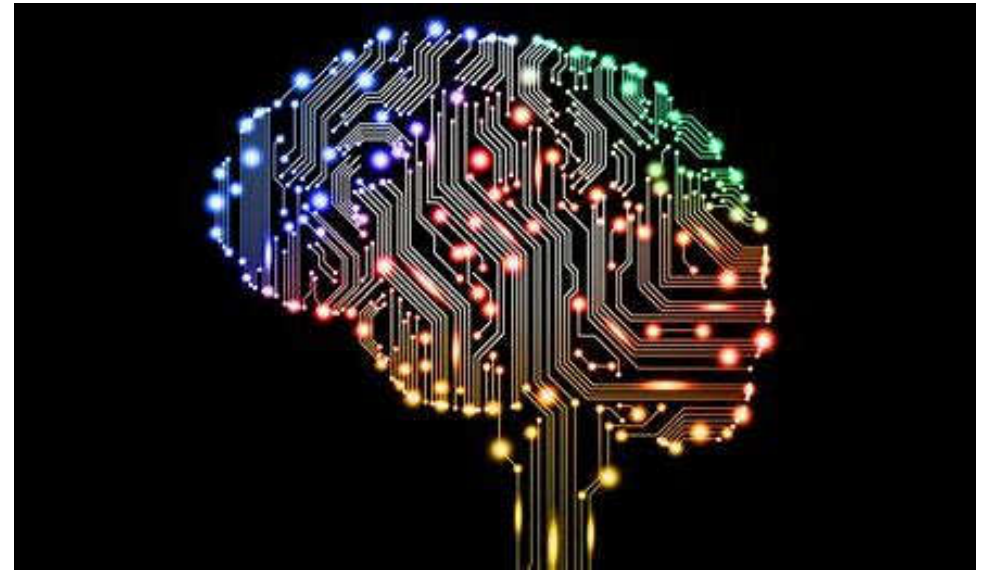


- **Many new O&G developments will be dependent on CCUS to gain sanction.**
- **There will be a need to drill more wells or work-over existing ones - More rig move and jack-up operations.**
- **No fundamental change in MWS activities for the marine elements of this**
- **There is a need to look at reservoir composition, well design and containment.**

Cyber & AI



- Does MWS role and skills need to evolve to account for the emerging Cyber risks?
- Or is this a specialist role for others?



- Artificial Intelligence Vs Academic Integrity
- Will we see AI generated contractor documentation?
- If we utilise, how to maintain confidence in integrity?

ESG



- **Is there a role for MWS in Emissions monitoring?**

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- **The “E” has taken precedence.**
- **Delays and cancelations to O&G project approvals. The \$s not the only thing that matters for FID.**
- **Need to go Green has diluted technical resources in Energy Co’s and Contractors. Added risks and opportunities.**
- **Increasing demands on MWS service providers to themselves meet internal and external ESG expectations.**

ESG – Climate Change and resilience



- **Is our approach to weather management still correct?**
- **Are we designing new structures and operations with suitable resilience?**
- **Are our existing structures being properly re-assessed for our changing environment?**



ESG - Underwriting

Members
Net-Zero Insurance Alliance



- Who will still be Underwriting O&G construction in 2030?
- Will they see value in MWS?
- If not, how do we show them the value?



Litigation & Litigation Funding



- Litigation seems to be on the up
- Litigation funding increasing, driven by changes in project financing particularly in renewables
- What are the risks and opportunities for MWS in this environment?



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PANEL DISCUSSION

