

Internationalisation - Taiwan



G+ GLOBAL OFFSHORE WIND HEALTH & SAFETY
ORGANISATION 5TH STAKEHOLDER FORUM

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www.gplusoffshorewind.com

In partnership with the



The primary aim of the G+ is to create and deliver world class H&S performance across all activities in the offshore wind industry.

Historically the focus has been on Northern Europe, however as a result of the developing global nature of the offshore wind industry and G+ member's interests in other countries, there is a desire to make the G+ more international and expand beyond its current areas of influence and activity.

But this is NOT about a one size fits all solution, pushing NWE solutions into a different environment



Why?

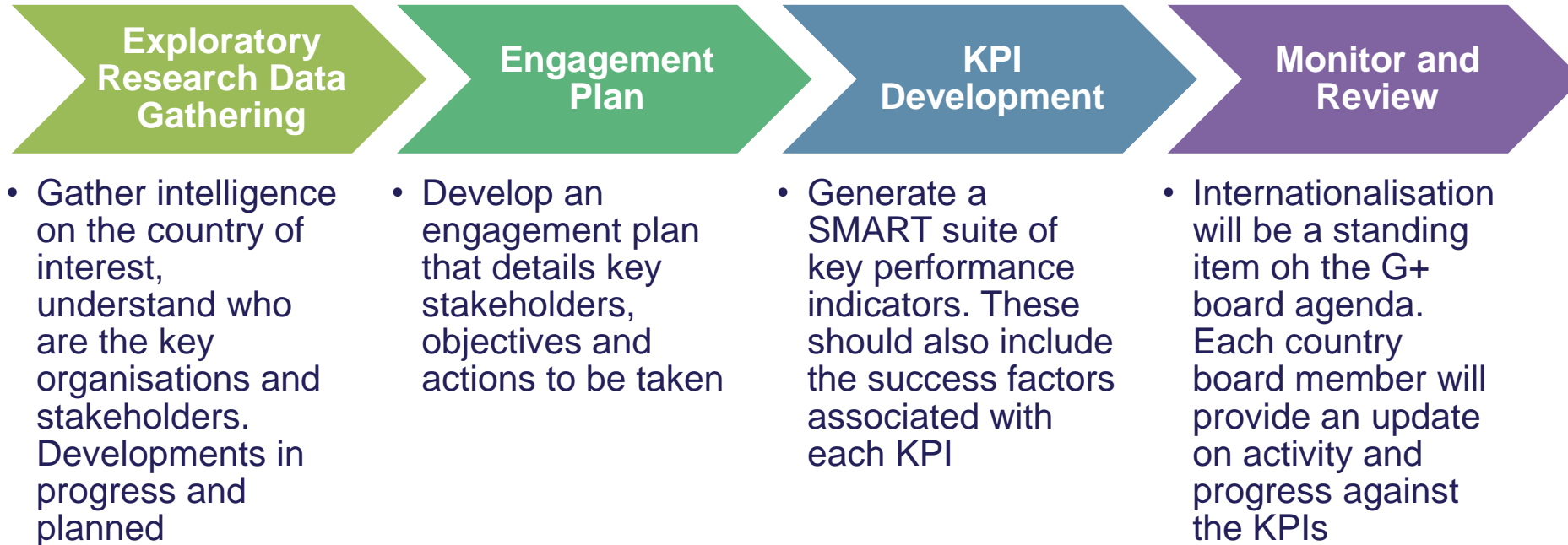
- Majority of Members have international development programs
- Lack of international regulation and experience in the sector
- Greater opportunity for the harmonisation of H&S design and operating practices
- The offshore wind industry utilises a global supply chain; therefore, it is imperative that H&S guidance is not limited by country boundaries.

Aims

- To minimise confusion and contradiction in standards and practices across the global industry
- To reduce risk and the frequency of H&S related incidents.
- To avoid duplication of effort in developing similar guidelines and avoid the potential risks and costs arising from conflicting requirements being applied in different jurisdictions

Progress so far

- Business plan sets out the strategy and roadmap
- Target Countries have been selected
- Board member country leads have been established



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HSE Director Soeren Baek
March 2019



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General challenges

- Different culture
 - Problems are approached in a meeting in a different way. Western style is much more direct.
- It is a new Industry, with a lot of different expectations
 - Expectation of a big local industry due to offshore
- Localization requirements demand developers to use inexperienced suppliers
 - The challenge of developing a local supplier base



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General challenges

- No offshore experience in Taiwan (i.e. oil and gas)
 - How is existing legislation used offshore
- Developer HSE forum, so that we all talk as one
 - CIP, Ørsted, WPD, CSC, Swancor, Northland Power, Macquarie, TaiPower
 - We approach the stakeholder with one voice
- Challenges due to Taiwan and China don't recognize each other. A vessel built in China is not allowed in Taiwan. Large part of installation vessels are built in China



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Government

- Taiwan government requested the National Marine University to develop an HSE guideline for offshore wind
 - All developer have given input
- The split of responsibility in the Government is not always clear
 - Marine Port Bureau was coming with HSE requirements
- International training is not recognized, local only available in Mandarin
 - Electrician, crane operator, HSE
- Legislation in Mandarin, only some are translated and not in a way that can be trusted
 - The use of the words “Shall and must” is not always correct



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Government

- The local fishermen, want to work on the projects, as guard vessel. A need to providing them with HSE training
 - They have never used and worked with HSE
 - The vessel standard is low
- Rescue helicopter on site is our responsibility
 - We have to provide a helicopter that can do rescue between the turbines
- Tug boat on stand by, has to be a developer responsibility
 - If a “dead vessel” is drifting towards a turbine ,
it is our responsibility to move it away



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Contractor & supplier

- No offshore experience in Taiwan (i.e. oil and gas)
 - Different understanding of HSE with local contractors
 - HSE is sometimes a desktop thing, not implemented on site
 - Localization requirements demand developers to use inexperienced suppliers
 - Local content in the supplier pool, requires a lot of new Joint Ventures where a Local and an experienced are joining up
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Contractor & supplier

- **Training center:** nothing was existing in TW and needed to be setup.
 - There are center being build
- **Medical support:** no hospital can currently do it, including step test
 - GWO medical is currently being provided with medical facilities
- **PPE:** local sourcing (The standard offshore PPE is currently not available, import is difficult)



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Next steps

- Training, dialog with local about recognizing European training
 - Electrician
 - Crane operator

 - Work hours regulation. The TW require 1 day off per week.

 - Different forums approaching government – coordination needed
 - Developers, have already built relationship
 - ECCT (European Chamber of Commerce Taiwan)
 - G+
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