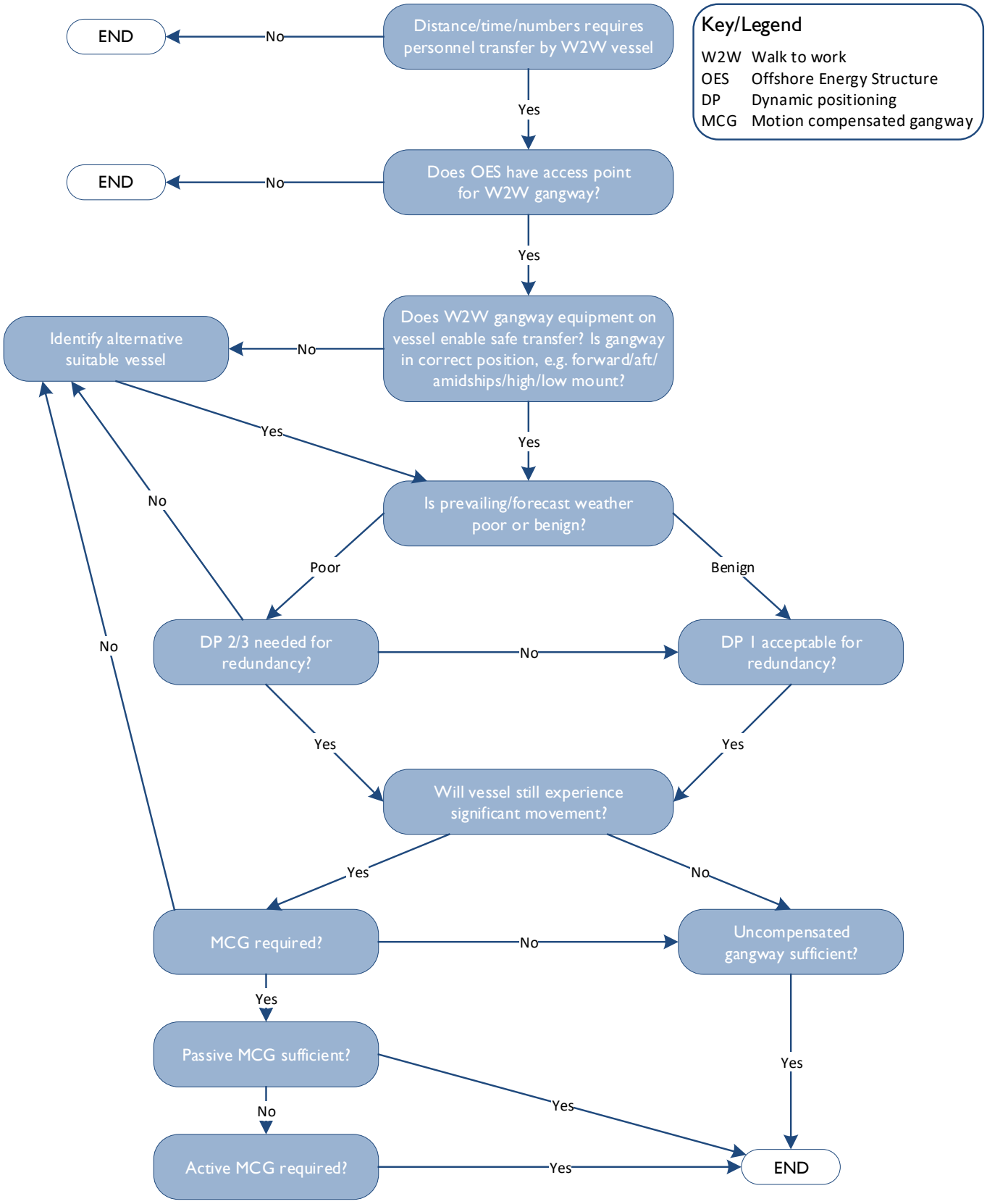
# IMCA Marine Renewable Energy Walk to Work (W2W) Decision Support Tool



## Optimum W2W Vessel Capability Matrix

When considering operations, it is essential that the emergency response plan including required response times are taken into account.

All vessels considered in these matrices are mono-hull, longer than 24m and greater than 300GRT

'Restricted' refers to the relative ease of access to the point of embarkation.

| **Option Rating:** | Preferred | Acceptable | Least Preferred |
|---|---|---|---|

Poor prevailing conditions = Average Wave Height >1.5 m/Sea State >3/Wind speed >10kts/Visibility <Moderate/ Environmental Vector >2kts

| **Capability** | **Sub-capabilities** | | | | **Operational Scenario: POOR PREVAILING ENVIRONMENTAL CONDITIONS** | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | **Platform/Transfer deck** | | | |
| | | **Gangway Capability** | | | **High open** | **High restricted** | **Low open** | **Low restricted** |
| **Large Vessel (+300GRT)** | **DP 2/3** | Active motion compensated | Mounted high | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |
| | | | Mounted low | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |
| | | Passive motion compensated | Mounted high | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |
| | | | Mounted low | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |

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| **Capability** | **Sub-capabilities** | | | | **Operational Scenario: POOR PREVAILING ENVIRONMENTAL CONDITIONS** | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | **Platform/Transfer deck** | | | |
| | | **Gangway Capability** | | | **High open** | **High restricted** | **Low open** | **Low restricted** |
| **Large Vessel (+300GRT)** | **DP 1** | Active motion compensated | Mounted high | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |
| | | | Mounted low | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |
| | | Passive motion compensated | Mounted high | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |
| | | | Mounted low | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |

Benign prevailing conditions = Average Wave Height <1.5 m/Sea State <3/Wind speed <10kts/Visibility >Moderate/ Environmental Vector <2kts

| Capability | Sub-capabilities | | | | Operational Scenario: BENIGN PREVAILING ENVIRONMENTAL CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|
| | | Gangway Capability | | | Platform/Transfer deck | | | |
| | | | | | High open | High restricted | Low open | Low restricted |
| Large Vessel (+300GRT) | DP 2/3 | Active motion compensated | Mounted high | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |
| | | | Mounted low | Forward | | | | |
| | | | | Amidships | | | | |
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| | | | | Amidships | | | | |
| | | | | Aft | | | | |
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| | | | | Amidships | | | | |
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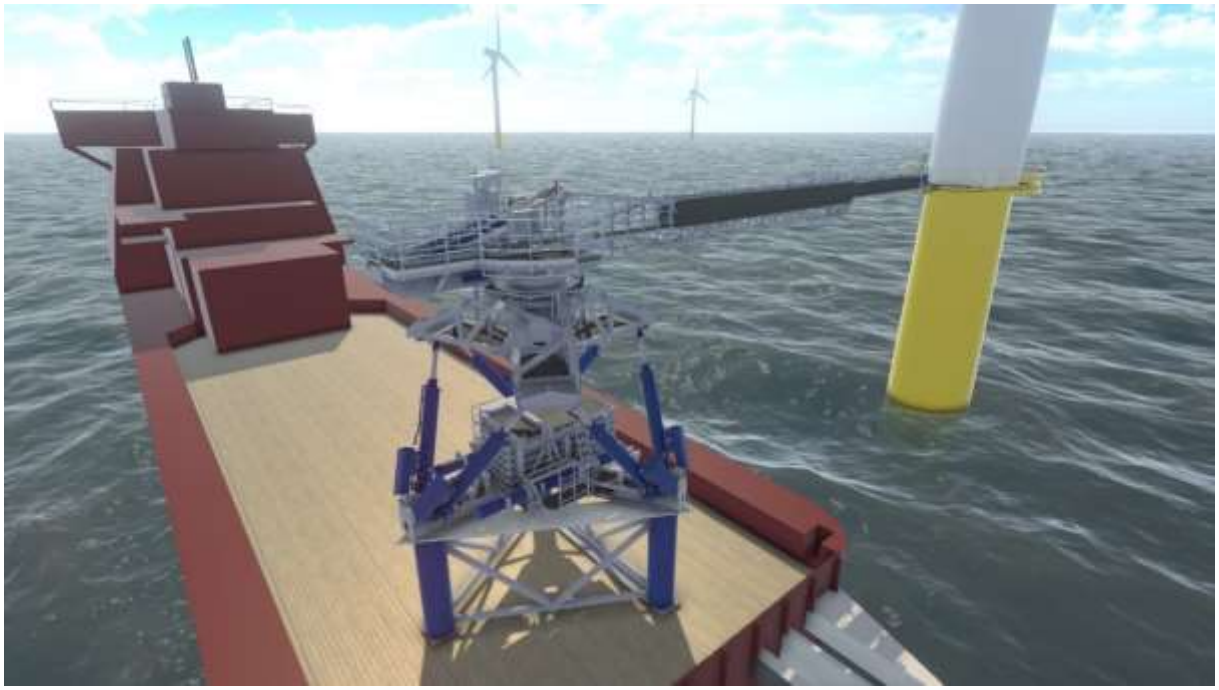
| | | | Mounted low | Forward | | | | |
| | | | | Amidships | | | | |
| | | | | Aft | | | | |

## Relevant Guidance

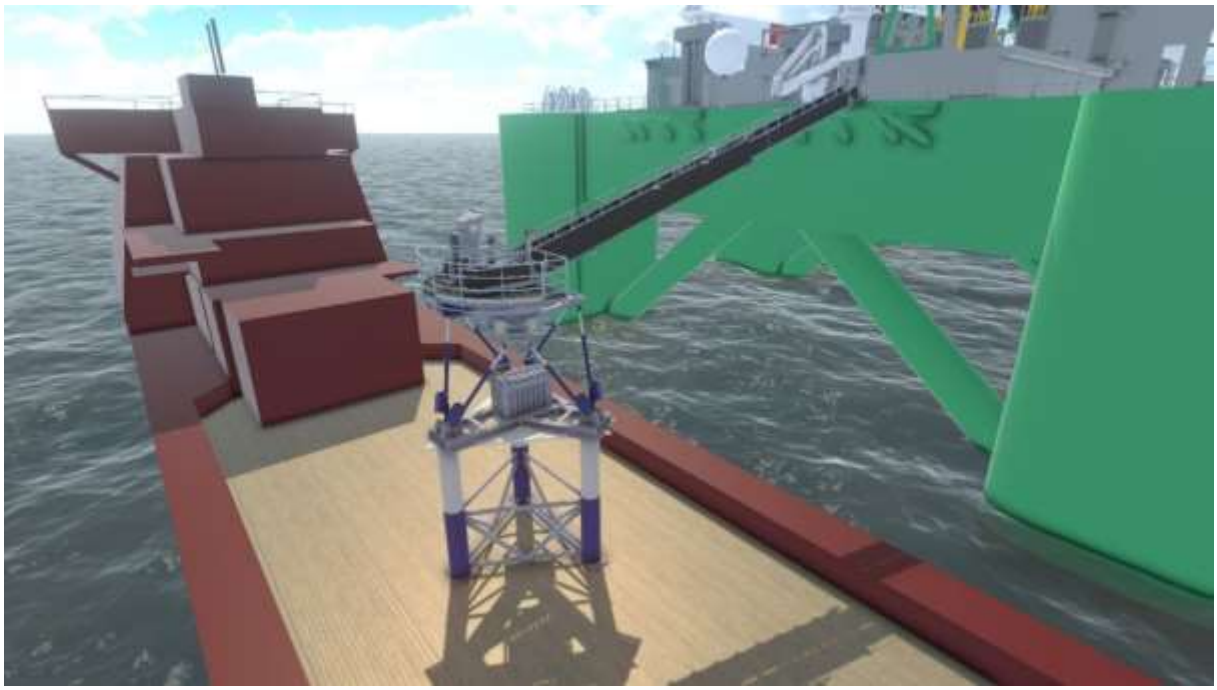
- IMCA M 202 – *Guidance on the transfer of personnel to and from offshore vessels and structures*
- ABS *Guide for Certification of Offshore Access Gangways* – https://ww2.eagle.org/content/dam/eagle/rules-and-guides/current/equipment_and_component_certification/236_Guide_for_Certification_of_Offshore_Access_Gangways/Offshore_Access_Gangways_Guide_e.pdf
- DNV GL *Walk to Work (W2W) Guidance* – https://www.dnvgl.com/oilgas/joint-industry-projects/ongoing-jips/walk-to-work-w2w-guidance-jip.html
- DNVGL-ST-0358 *Offshore gangways standard* – https://rules.dnvgl.com/docs/pdf/DNVGL/ST/2017-09/DNVGL-ST-0358.pdf

**Transfer Deck to Platform Orientation**

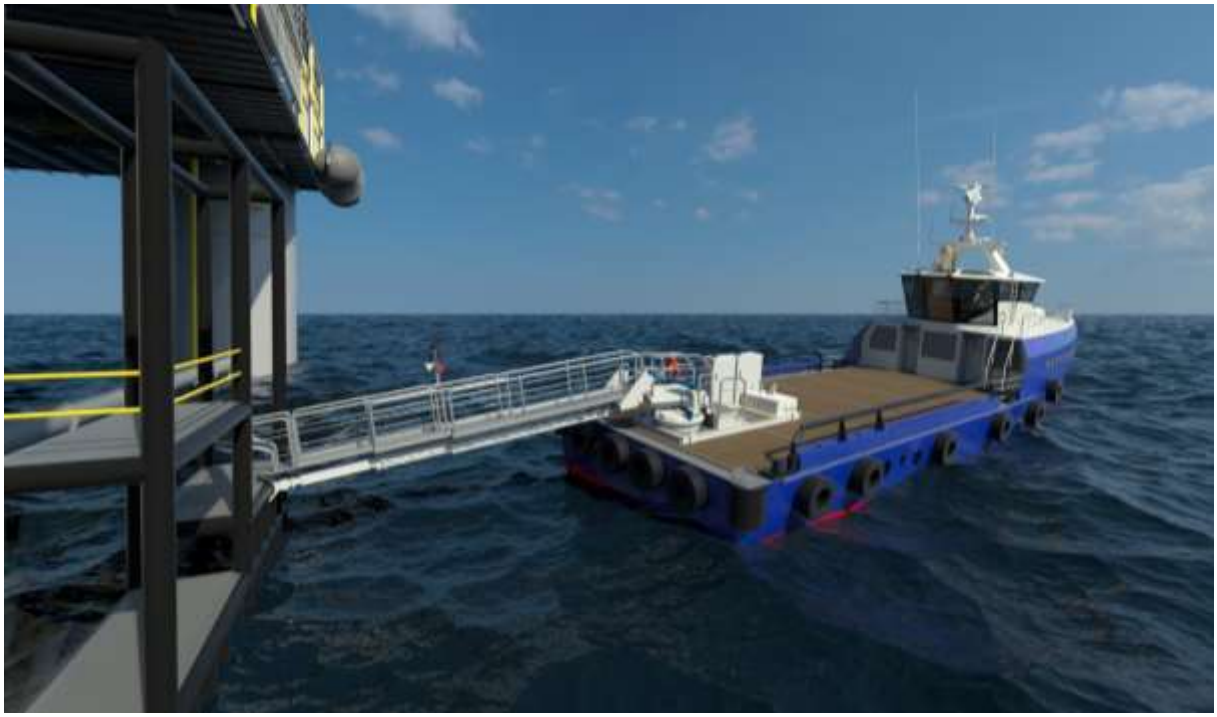
**High Open**



**High Restricted**



**Low Open**



**Low Restricted**

***DISCLAIMER: Gangway designs and graphics kindly provided by Ampelmann for use within this document. Alternative gangway configurations and technologies are available***