

Health and Safety in Multi-use: Possibilities and challenges in offshore accident prevention

The UNITED Project

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Agenda



- 1. Some statistics
- 2. Accident prevention
- 3. Challenges
- 4. Recommendations





Data



G+ Global Offshore Wind Health & Safety Organisation 2020 incident data report

G+ Global Offshore Wind Health and Safety Organisation 2020 incident data report

Safety statistics for 2020¹⁰

	2014	2015	2016	2017	2018**	2019	2020
Hours Worked*	23,710,000	21,220,000	21,726,000	26,815,000	25,359,000	22,374,000	25,318,000
Fatalities	0	0	0	0	0	0	0
Lost work day injuries	44	41	43	49	39	62	43
Restricted work day injuries	14	32	35	30	34	23	30
Medical treatment injuries	85	53	42	78	45	38	22
Total	143	126	120	157	118	123	95
Total recordable injury rate (TRIR)	6.03	5.94	5.52	5.85	4.65	5.50	3.75
Lost time injury frequency (LTIF)	1.86	1.93	1.98	1.83	1.54	2.77	1.70



Data



G+ Global Offshore Wind Health & Safety Organisation 2020 incident data report

Medical Restricted Lost Work Day Treatment Near hit/ Work Day Number Asset First Aid Hours (million)* of sites damage injury Hazard injury Injury miss injury Total LTIF/TRIR Denmark 10 23 39 0.672.34 0 17 NA / 5.9 0 0 0.2 France 12 8 21 5 13 19 10 80 2.4 5.4 / 11.2 Germany 4 NA / NA Sweden 0 0 0 0 4 0 5 0.1 3 9 36 0 0 55 1.9 NA / 0.5 Taiwan The Netherlands 3.7 / 8.2 4 20 20 3 54 1.3 0 4 UK 47 23 469 1.5 / 3.0 119 118 36 149 13 15.8 United States 8 9 3 24 0.6/2.50 1.6

Figure 27: Country profiles – actual consequence, worked hours, LTIF and TRIR

^{*}Hours worked in offices with multiregional operations cannot be attributed to a specific country.

26/01/2022 **UNITED Public Webinar**



Data



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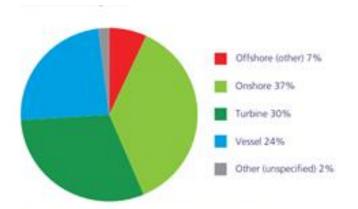


Figure 3: High potential incidents and injuries - area summary

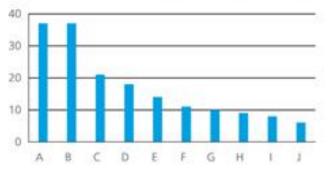


Figure 5: High potential - Top 10 work process breakdown

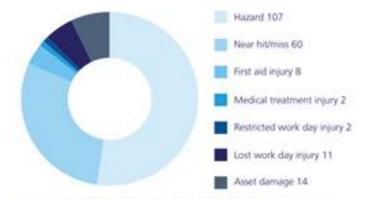


Figure 4: High potential - incident actual consequence

Ke	te:
A.	Working at heights
В	Lifting operations
C	Electrical systems (working with)
D	Access/egress
E	Routine maintenance
F	Transfer from/to vessel
Ģ	Climbing/tope access
н	Vessel operation (including jack-ups and barges)
1	Transit by vessel
1	Communications





Focus area



Crew transfer vessels

Lifting operation

Manual handling

Dropped objects incidents

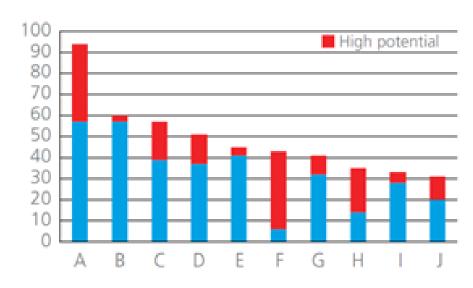
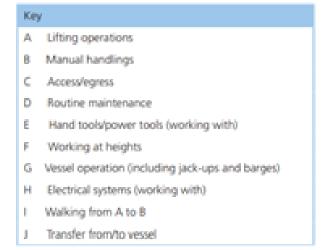


Figure 15: Work process – top 10 work process with high potential incidents and injuries identified





Accident prevention

- Macro level:
 - Legislation
 - Standards
 - Monitoring
- Mezzo level:
 - Organizational culture
 - Ability to asses, cope and manage hazards/risks
 - Safety Management System/Procedures/Policies
 - Creating safety work conditions for employees
 - Training of employees
- Micro level:
 - Ability to asses, cope and manage hazards/risks
 - Knowledge and experience
 - Access to safety equipment and safety training
 - Attitudes





Southern Denmark



The Multi-Use Concept - challenges



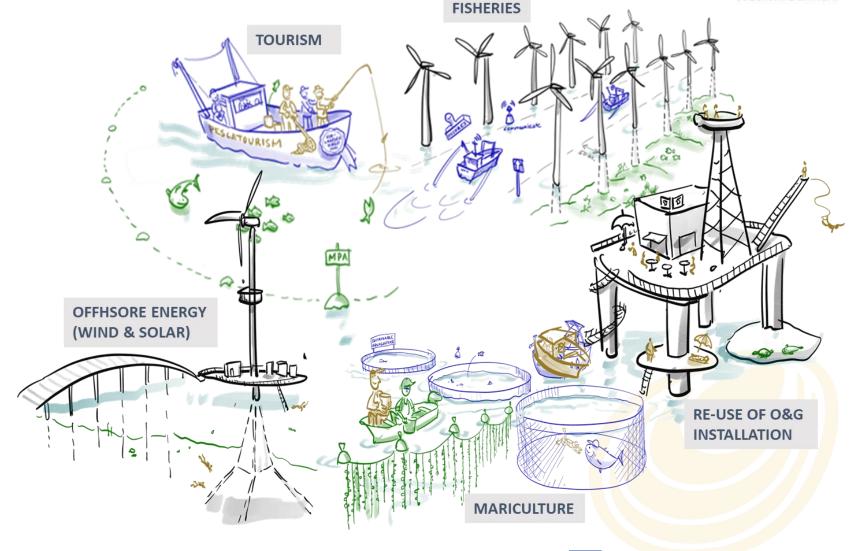
Different legislation

Different procedures

Different cultures

Different level of knowledge of risk and safety

Different understanding of safety





Recommendations



- Planning of multi-use
- Risk assessment of multi-use
- Dialog/communication about risk and safety definition/understanding
- Cooperation between all partners and defining common rules/standards/code of conduct







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