



# G+ Overview



# Why health and safety?

## Update: Worker On Board Wind Pioneer Injured by Fire Hose



British and Danish authorities have started an investigation to determine the root cause of **the accident** in which a worker on board the jack up vessel Wind Pioneer was injured on Saturday, 20 February, while the vessel was carrying out maintenance work at the 172MW Gunfleet Sands offshore wind farm.

The injured worker suffered a laceration to his right shin, seemingly caused by a fire hose being pressurized, DBB Jack-Up, the owner of the Wind Pioneer, said in a statement.



## Fluor, Siemens sentenced to pay £650k after Gabbard fatality

Health and Safety Executive case brought following 2010 accident



02/10/2015

## Company fined after worker is fatally crushed in trench

Date:

5 May 2016

A company has been fined £2.6 million after an employee was killed when the trench he was working in collapsed on him in Lancashire.

James Sim, a 32-year-old worker, from Barry, South Wales, a sub-contractor working on behalf of Balfour Beatty Utility Solutions Limited. On the 14 April 2010, Mr Sim was working in a trench, laying ducting for new cable for an offshore windfarm that was being built off the coast by Heysham, Lancashire. The trench was dug to a depth of 2.4 metres, without any shoring. Mr Sim was killed when he became trapped in the trench after it collapsed on him.

GERMANY



## Diver killed on Riffgat offshore wind farm

15 July 2013 by James Quilter [Be the first to comment](#)

GERMANY: A diver has been killed during the construction of EWE and Enova's 108MW Riffgat wind farm in the German North Sea.



It is the third death of a diver on a German offshore wind farm since 2010.

## Safety Alert Issued on Butendiek OWF Accident



A serious accident occurred in the night of Sunday 6 July 2014 at the German offshore wind farm Butendiek. The victim, a Danish employee hired by Ballast Nedam, was admitted to the hospital in critical condition.

Due to the seriousness of his injuries, he spent 6 weeks in hospital. He will need further surgery

and his recovery will take a considerable amount of time.





# Who are the members of G+?

*Our member relationships are central to what we do. Collaboration within our community and shared data contributes to more frontline offshore wind workers getting home safely.*

## Members



## Associate Members



# Governance and structure

## G+ Board

- Primary review & decision making
- Demonstrate visible leadership
- To reach key decisions and agreements
- Decide on strategic direction

## Energy Institute

- Provides the Secretariat

## G+ Focal Groups

- Actions to improve H&S performance
- Share information and data
- Develop learning's from incidents
- Run work programme to develop industry guidance on safety
- Support the Board to demonstrate leadership

# Board of Directors



David Griffiths



Lisbeth Norup Frømling



Giles Mackey



Rachel Porto



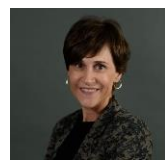
Beate Myking



Arianna Marinello



Pablo Temiño López-Jurado



Elena Caja Martin



Karin Borg



Clark MacFarlane



Patricia Claverie



Pavlo Malyshenko

AGM

EI G+ Secretariat

G+ Focal Group  
US

G+ Focal Group  
Europe

G+ Focal Group  
APAC





# G+ Secretariat

**Kate Harvey**  
General Manager



**Martin Maeso**  
EI lead & Co Secretary



**Beate Hildenbrand**  
Head of Americas

**Mariana Carvalho**  
Technical Manager

**Caren Hsiao**  
APAC Representative

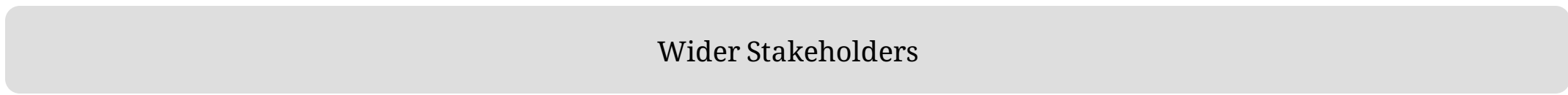
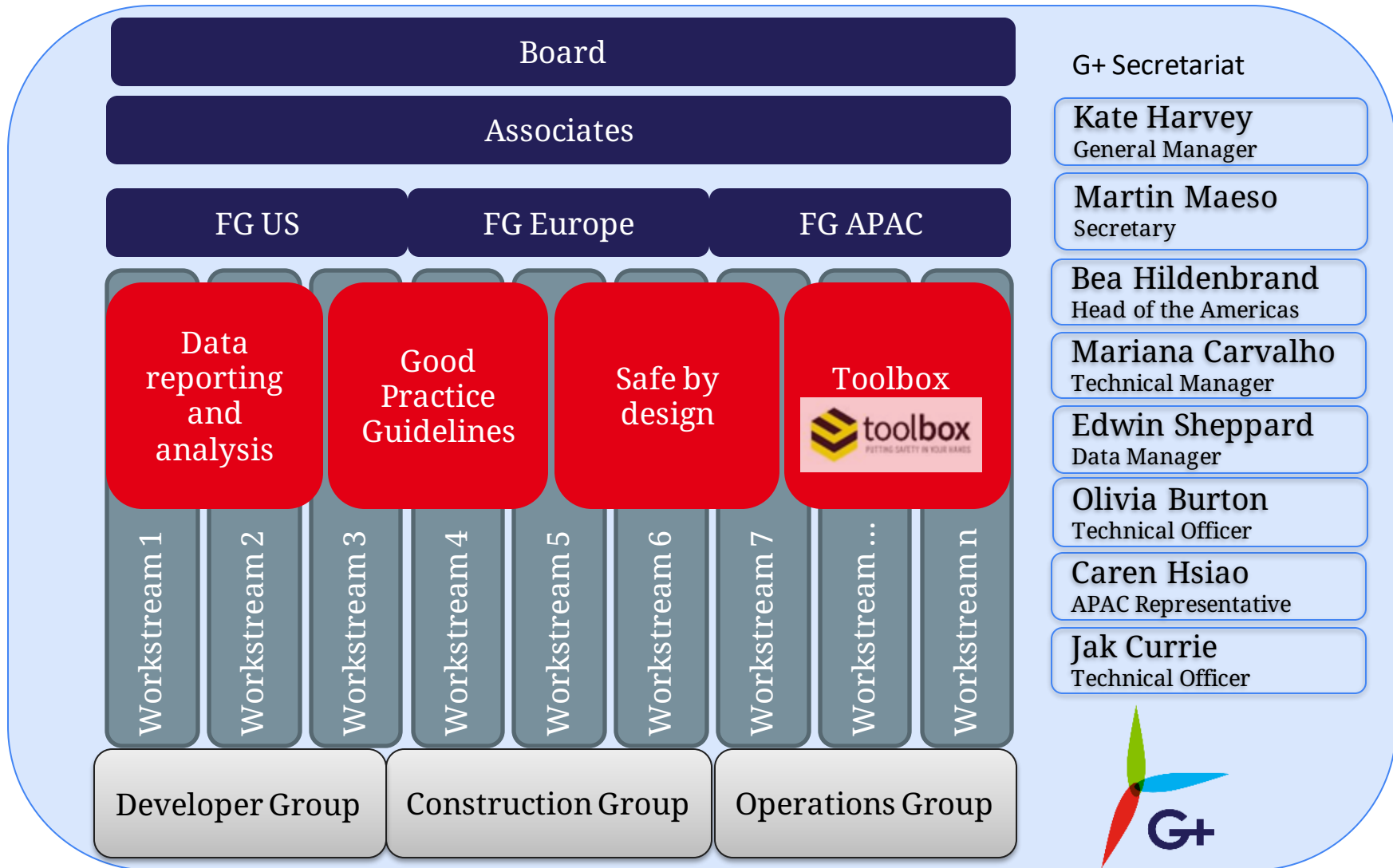
**Jak Currie**  
Technical Officer

**Olivia Burton**  
Technical Officer

**Edwin Sheppard**  
Technical Manager - Data

Supported by 





# Unlocking the power of data

*G+ member data is analysed and shared through four main programmes to give a holistic view of health and safety performance and measurable proof of improvements and performance.*



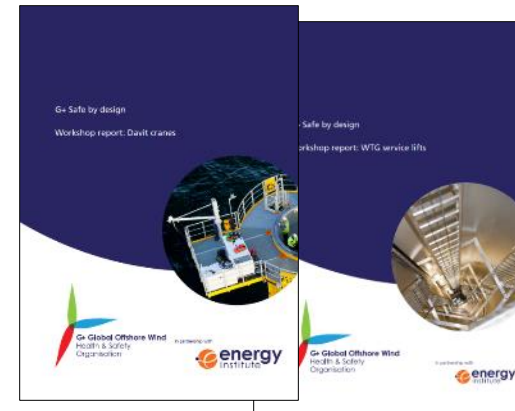
## Incident data reports

- Understanding of offshore wind industry risk profile
- Evidence base to inform interventions
- Accurate assessment of industry H&S performance
- Tool for comparison of H&S performance against other comparable industries



## Good practice guidelines

- Recommendations for procedures, controls, ways of working at offshore wind farms
- Minimum standard expected for meeting industry H&S expectations
- G+ members self check compliance against GPG content
- Referenced in site and company corporate documents



## Safe by Design programme

- Examine the current design controls relating to the topic, discuss where current design has potentially failed, and identify potential opportunities for improvement
- Outputs published and used as a reference by the industry
- Act as a catalyst for further discussion and research within the industry



## Sharing incident learnings

- Incident learnings to be shared through Toolbox
- Toolbox is an EI web-based app
- Is accessible to all, anywhere, any place, any time

<https://toolbox.energyinst.org/>

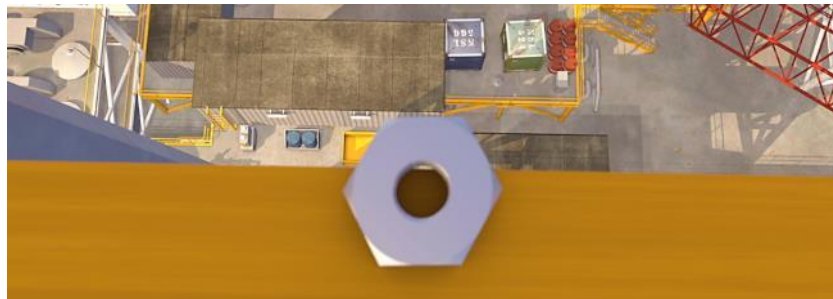




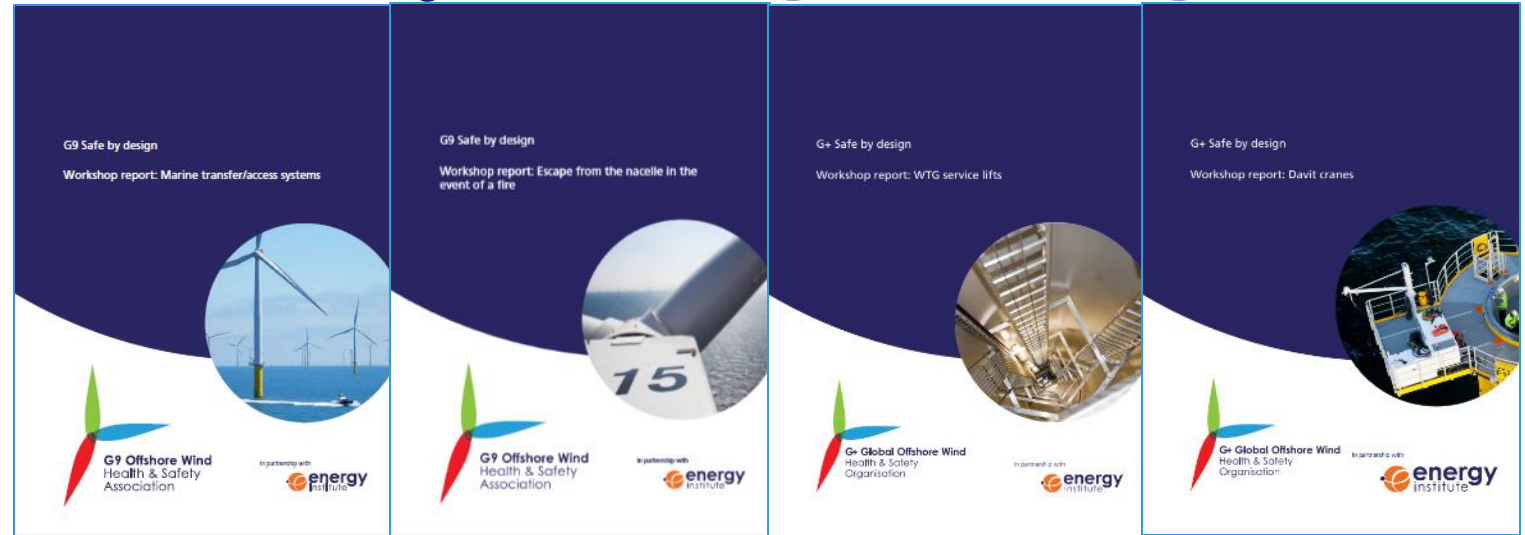
# Good practice guidelines

## Current G+ good practice

- Offshore wind farm transfer
- Working at height
- The safe management of small service vessels
- Reducing manual handling / ergonomics incidents
- Reducing dropped object incidents
- Emergency response
- Ladder climbing research
- Helicopter Operations
- Floating OW HAZID
- Improving compliance workshop: basic lifting operations



# Safe by Design Programme



Marine transfer and access

Escape from nacelle

WTG service lifts

Davit cranes



WTG access and egress

WTG access to the TP (below airtight deck)

Hydraulic torquing and tensioning systems

Blades access/repair

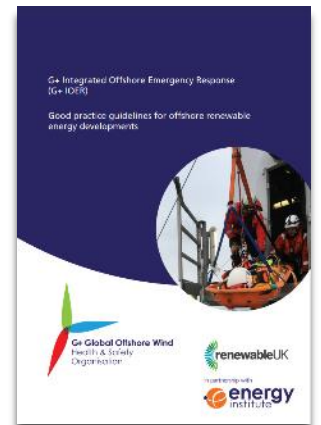
Floating Offshore Wind





# G+ current work programme

- Recommended physical capacity assessment for G+ offshore wind farm technicians
- Floating offshore wind:
  - Confined spaces
  - Motion dynamics and impact on personnel
  - HAZID follow-up topic 1
- Update of Renewables & Unmanned Aircraft Systems - Update to basic Vessel Safety Guide
- Internationalisation:
  - Workshop on Safe System of Work (SSOW) (incl. Wind Turbine Safety Rules)
  - APAC work program
  - WME
- SMS arrangements for Offshore Wind across life cycle
- Improving safety in steel fabrication yards
- Manual handling – video campaign
- Lifting framework
- CTV – vessel and vetting standards
- Personnel transfer





# EI Tech Membership

- The Energy Institute (EI) offers secretarial support to the G+. It is a not-for-profit registered charity, which exists to **promote and advance knowledge, skills and good practice in energy for society's benefit.**
- Visit the [Energy Institute Publishing website](#) to access a wide range of technical guidance documents, research papers and standards to support the energy industry.
- As an EI Tech member you will have access to technical committees including ageing and life extension, carbon capture and storage, corrosion management/asset integrity, environmental protection, fuels distribution, health, human and organisational performance, learning from incidents, hydrocarbon management, hydrogen, offshore wind, onshore wind, process safety and test methods standardization.



# Contact Details



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@G+ Global Offshore Wind Health and Safety Organisation



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