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.

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.

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.

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

Lisbeth Norup Frømling

Giles Mackey

Beate Myking

Arianna Marinello

Clark MacFarlane

Karin Borg

Natalia Planillo

Elena Caja Martin

Nicolas Wawresky

Pavlo Malyshenko

Tyrone Singleton

Michelle Ruane

tbc

AGM

EI G+ Secretariat

G+ Focal Group US

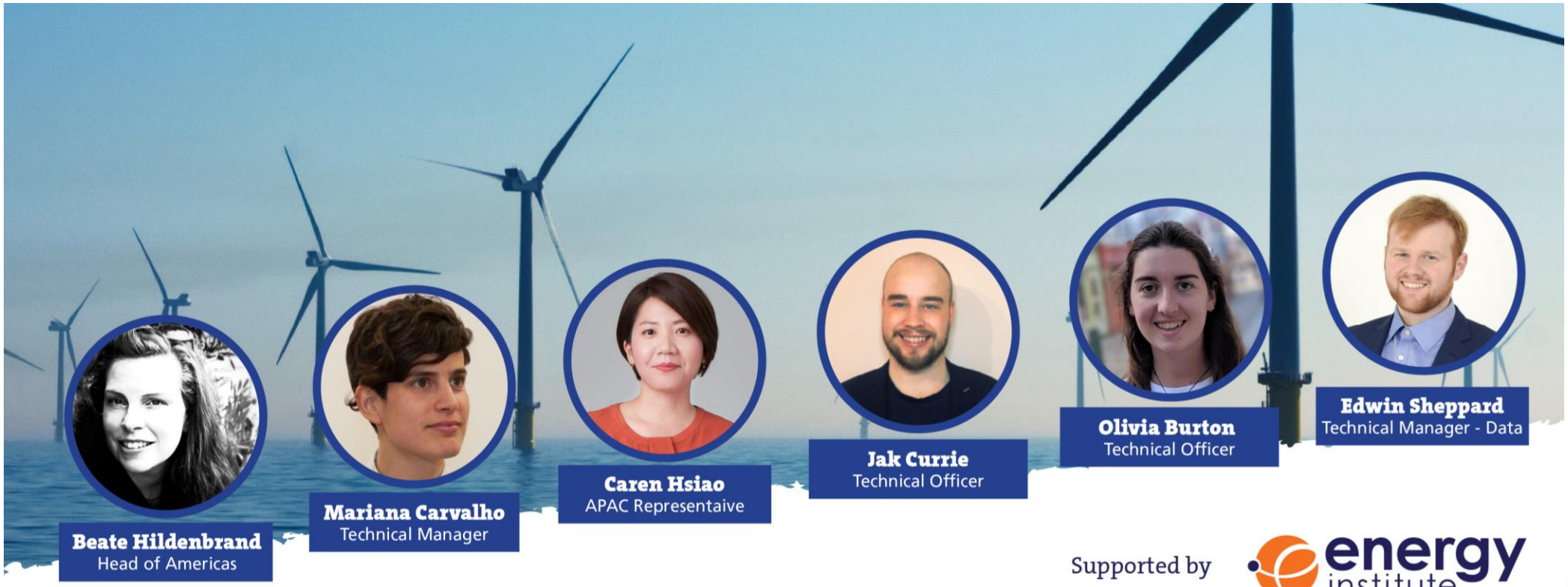
G+ Focal Group Europe

G+ Focal Group APAC

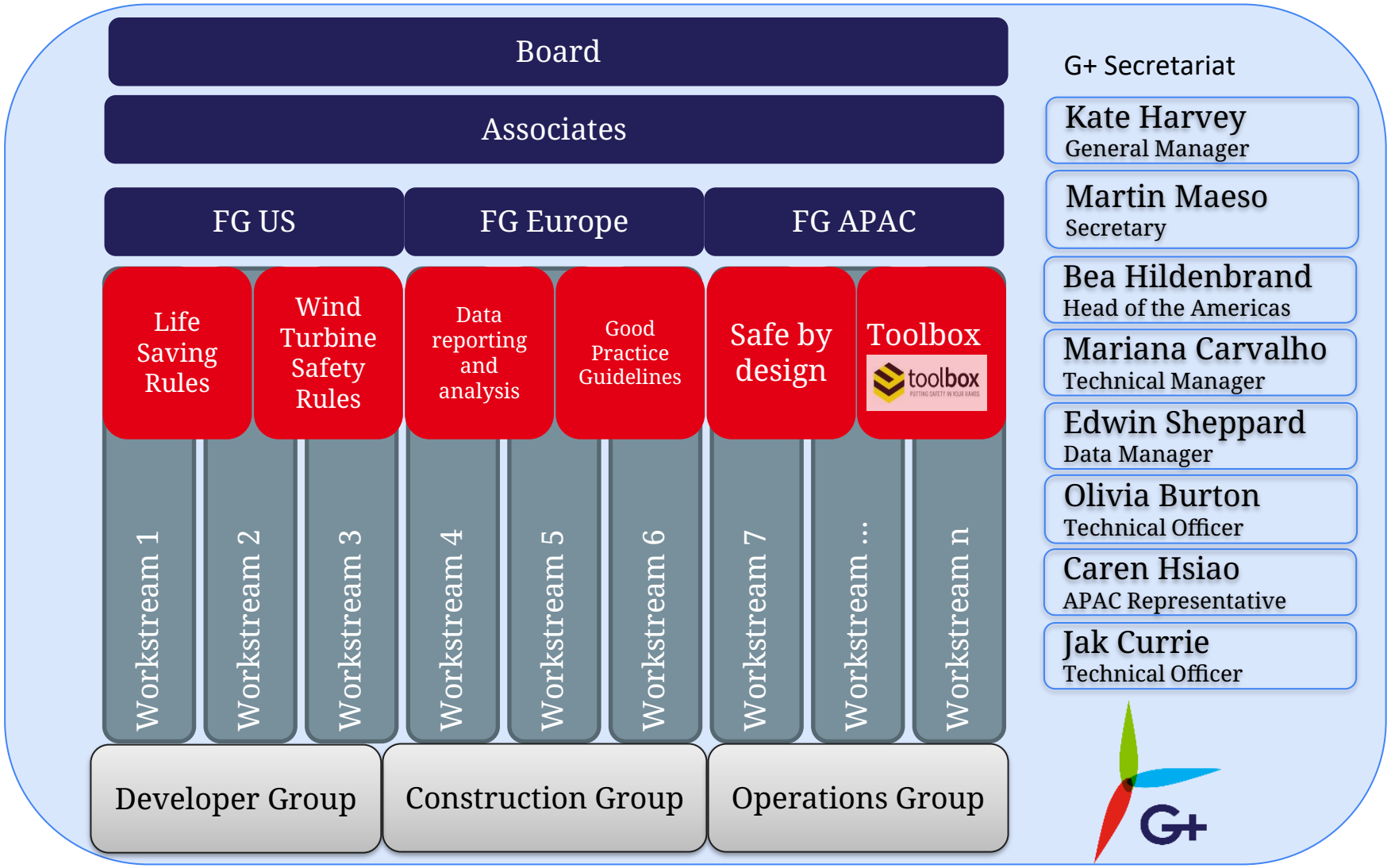
G+ Secretariat

Kate Harvey
General Manager

Martin Maeso
EI lead & Co Secretary



Supported by energy institute



Industry Collaboration Committee (ICC)

GWO IMCA RUK WE ACP

VGBE OPITO BNOW

Wider Stakeholders

Technical and Innovation

Events

External Affairs

Knowledge

Membership and Accreditation

EI Academy

PfW

energy institute

G+

Unlocking the power of data

G+ member data is analysed and shared through six 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

Unlocking the power of data

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/

Wind Turbine Safety Rules (WTSR)

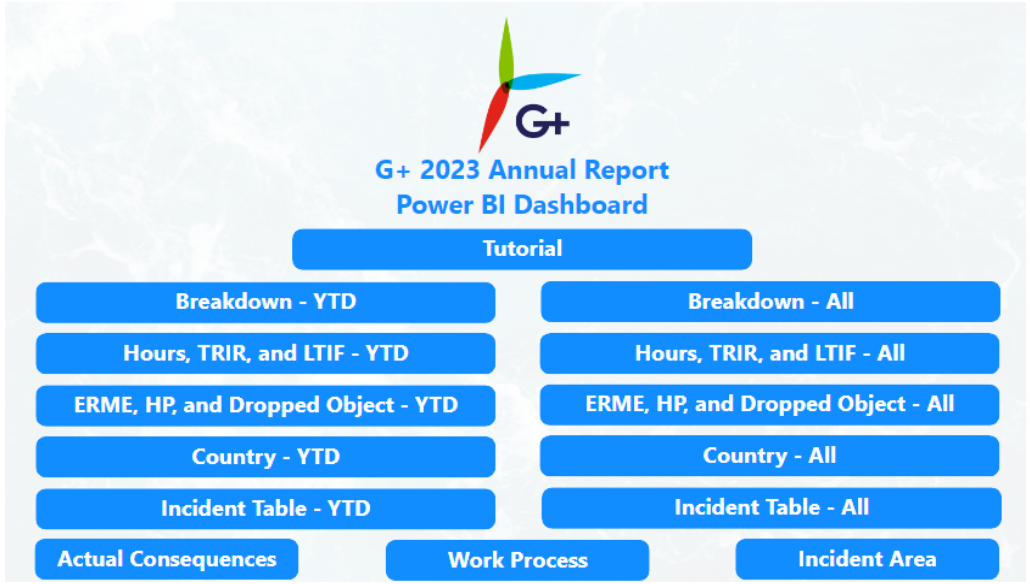
- Help formalise a Safe System of Work (SSoW)
- Onshore and offshore
  - Developed in collaboration with SafetyOn
- Safeguards persons from the mechanical plant and LV apparatus and the associated system derived hazards.

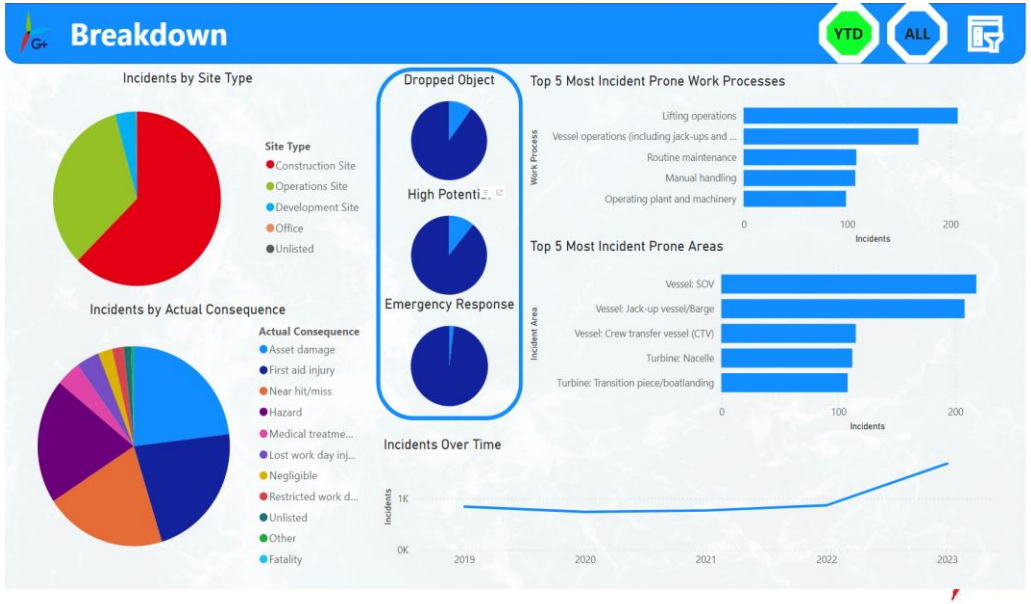
Life Saving Rules (LSR)

- Clear and simple statements to follow, most relevant for offshore wind
- Supports those new to the industry.
- Easy to align with contractual requirements, representing a common denominator
- Includes full implementation starter pack – slides, posters guide, question set and translations.

G+ Power BI Dashboard

- Our new and improved Power BI dashboard is live: https://www.gplusoffshorewind.com/work-programme/workstreams/statistics
- Data can be filtered, and graphs show patterns over time
- Presents all our incidents between 2014 to 2023

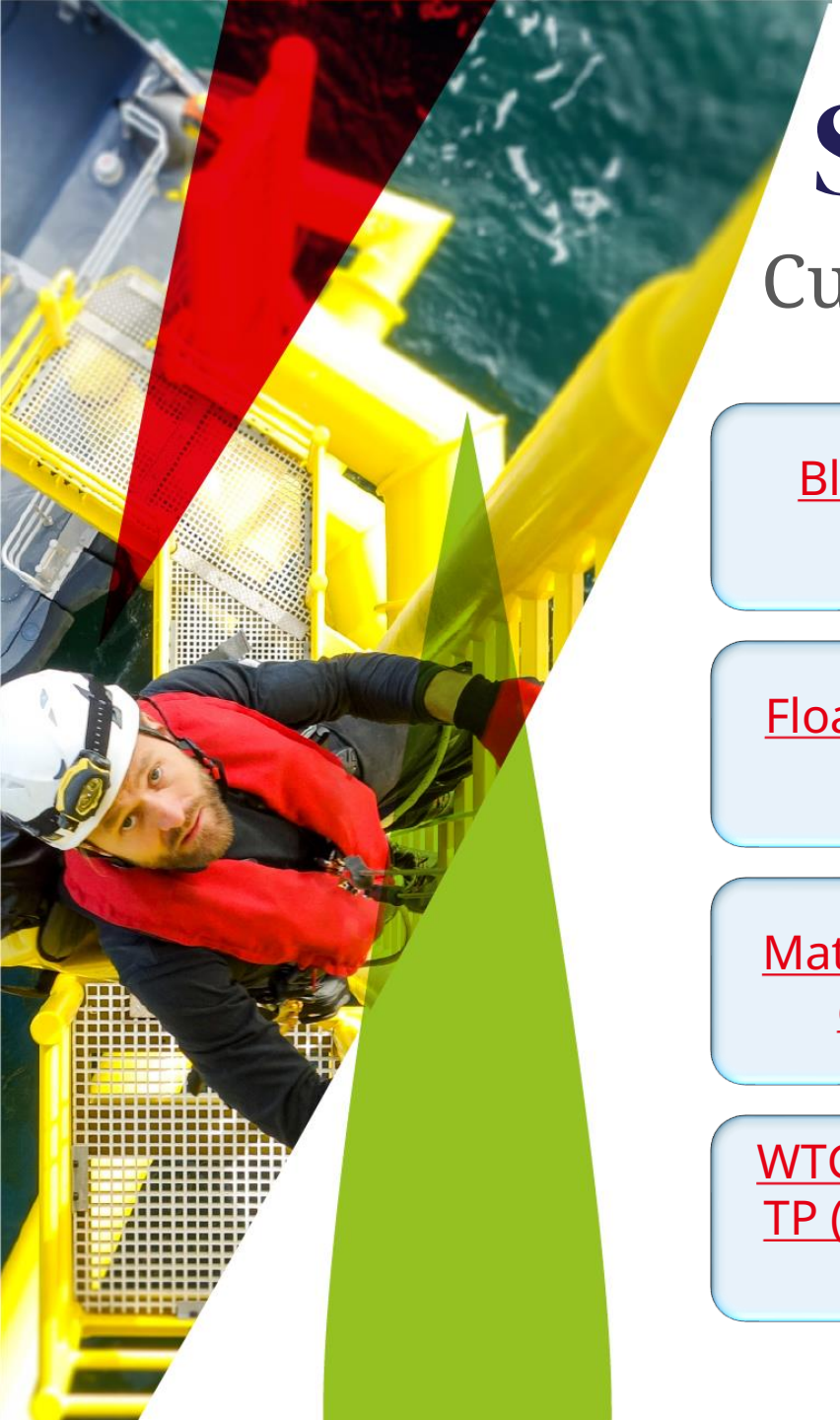




Good practice guidelines

Current G+ GPGs *(see the G+ website for translations)*

- Arc flash labelling
- Contractor engagement and behavioural safety in onshore civils *(w/SafetyOn)*
- DROPS Reliable securing *(w/SafetyOn)*
- Emergency Response (IOER)
- Floating OW HAZID
- Helicopter Operations *Section A* | *Section B*
- Improving compliance workshop: basic lifting operations
- Offshore wind farm transfer
- Reducing manual handling / ergonomics incidents
- Safe by Design implementation guide
- Safe management of small service vessels
- Steel fabrication
- Unmanned Aircraft Systems (UASs)
- Working at height



Safe by Design Programme

Current G+ Safe by Design Workshop reports

- Blades access/ repair
- Davit cranes
- Escape from nacelle *(fire)*
- Floating Offshore Wind
- Hydraulic torqueing and tensioning systems
- Marine transfer and access
- Material handling equipment
- Walk-to-Work *(w/IMCA)*
- WTG access and egress
- WTG access to the TP (below airtight deck)
- WTG service lifts
- WTG service lifts – follow-up

WTSR and wider research

Wind Turbine Safety Rules *(4th edn | w/ SafetyOn)*

Workshops report: Electrical safe system of work *(w/ SafetyOn)*

Ladder climbing research

Examining the impact of floating wind turbines on the human operator: A scoping review

Human-Free Offshore Lifting Solutions

Lifesaving rules for the offshore wind industry

Working Responsibly

Always ensure the required plans and permits are in place before you start a job

Always use tools and equipment that are fit for the intended purpose

Never undertake any job unless you have been trained and assessed as competent

Never work, or operate vehicles or machinery, while under the influence of drugs or alcohol

Working with Electricity

Always verify isolation and zero energy before work begins

Working at Height

Always use fall protection when working at height

Out of harms way

Always secure tools, loose materials and equipment to prevent them from falling

Never place yourself under a suspended load during lifting

Always adhere to barriers and exclusion zones

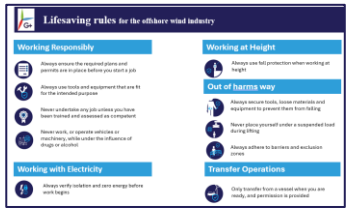
Transfer Operations

Only transfer from a vessel when you are ready, and permission is provided

Not just a set of rules

LSR resources

1 Set of Life Saving Rules



2 Implementation guidance for companies

Start safe, stop if unsure

3 Slide packs

4 Support the front-line

Ask yourself, your team, your supervisor

5 Launch and communication

Translations include: Chinese, German, Spanish, Japanese and Korean

6 Monitor and improve

We will collect the data to understand the impact and applicability of the rules, and commit to adapting our rules as needed by the industry.

G+ current work programme

OW 2502	Incident **data** reporting	*OW 2310*	**Vessel Safety Guide**
OW 2504	Safety alerts and sharing information – **Toolbox**	*OW 2407*	**Severe weather preparedness** | *inc. Heat stress*
OW 2208	**Manual handling** – video campaign	*OW 2413*	**Vessel/WTG interaction**
OW 2209	**Lifting** framework	*OW 2312*	**SMS arrangements** for OW across life cycle
OW 2406	**Welfare**	*OW 2405*	**Floating** OW
OW 2412	**Implementation of GPGs**	*OW 2408*	**Surveying buoys**
	Wind Turbine Safety Rules	*OW 2510*	**Walk-to-Work**
OW 2501	**Internationalisation | Korea Stakeholder Forum**	*OW 2505*	**Safe by Design**
OW 2311	**Safe System of Work (SSOW)** electrical safety	*OW 2507*	**OW Fabrication Safety** Collaboration Forum
OW 2210	**Marine coordination**	*OW 2508*	**Physical capacity** assessment

EI Tech Membership

A not-for-profit registered charity, the EI promotes and advances knowledge, skills and good practice in energy for society's benefit.

EI Publishing website hosts technical guidance documents, research papers and standards to support the energy industry.

G+ Members can access these technical committees:

- 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
- Test methods standardization.

AMEI

If you work for a company which holds corporate membership with the EI, you will be eligible for complimentary individual membership as an **Associate Member (AMEI)**

Why join?

Unlock your Associate Member benefits

- Use of AMEI post nominals
- Access to *EI Connect* mentoring platform
- Free and discounted training via *EI Academy*
- *Energy Futures* newsletter and other member updates
- Weekly digital magazine, *New Energy World*
- Free, confidential advice via *EI Assist*
- Support to help you progress to professional membership and chartered status

How to sign up

1) Check if your company is a member of the EI here

2) If yes, register for your own online account here and make sure you use your **company email address**

3) After email verification, follow the steps to join as an **Associate Member** (AMEI) here

4) You're in! Spread the word to your colleagues and make the most of your membership

Need a bit of help? Contact us at companies@energyinst.org

Contact Details

www.gplusoffshorewind.com

@gplusglobalofw

@G+ Global Offshore Wind Health and Safety Organisation

gplus@energyinst.org