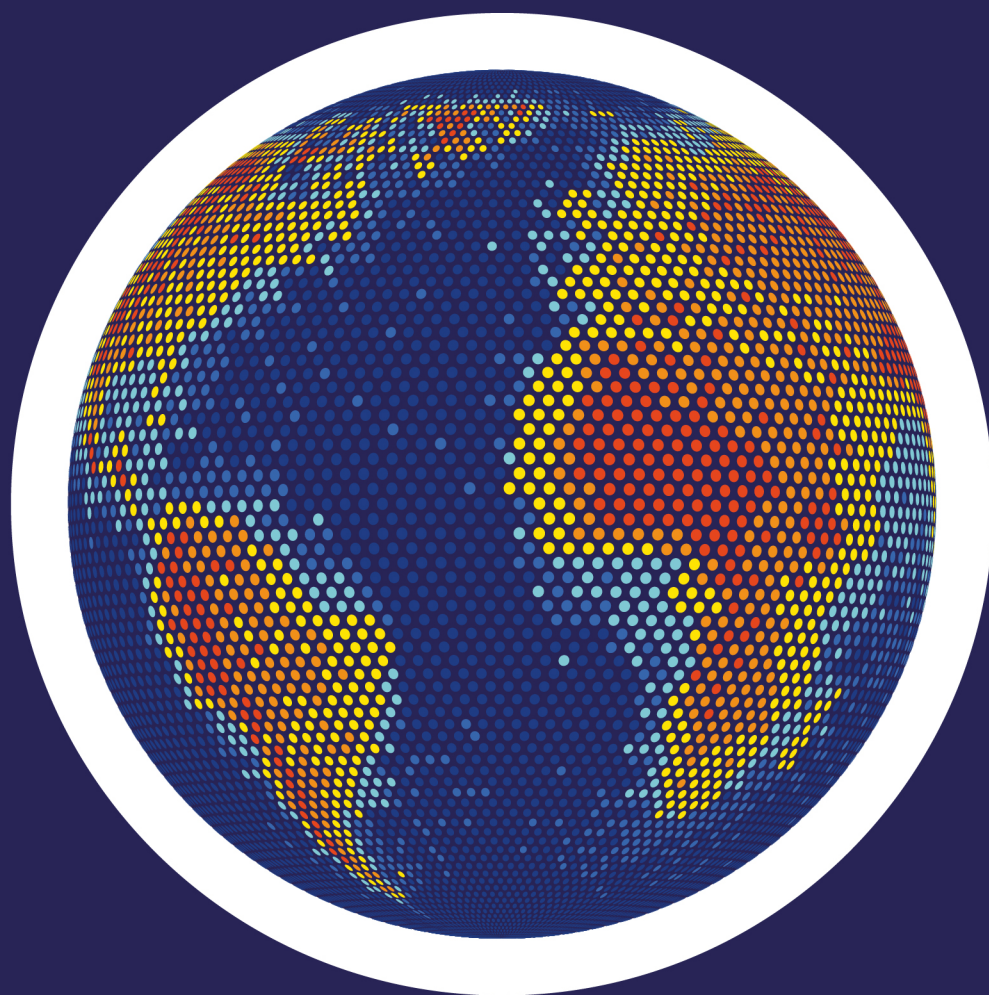




# The right data



**Offshore Wind: Health & Safety Incident Reporting**



Because of the G+ incident data reporting, we've now got very clear, industry-wide data which helps us analyse what we need to do next and define our work packages.

David Griffiths  
Head of Safety, Health and Environment  
SSE Renewables





**Tove Lunde**

Head of Safety, Security and Sustainability in New Energy Solutions at Equinor.

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## A message from the G+ Chair



I'm delighted to be chairing the G+ in a period of continued growth and internationalisation. Offshore wind has been on a remarkable journey and taken massive leaps in technology innovation, cost reduction and output. And so too has our safety performance.

But as the workforce grows, so too does the exposure to potential hazards associated with operating in offshore environments; and data collected by the G+ still indicates that we have a way to go in this area. Every single day, a person working for us gets injured, either through a first aid incident or something more serious. To me that is just not good enough. We have to strive for zero harm to our people and the environment that we operate in.

The G+ exists to drive world class health and safety performance through robust practices and transparent reporting. To do this effectively, we have to collaborate. Sharing our members' expertise and experience and engaging stakeholders all over the world, including developers, service suppliers, regulators and policy makers in producing best safety practices and sharing our learning across the industry.

Fostering a safe workplace is the right thing to do, because we cannot accept that people get hurt working for us.

## Introduction

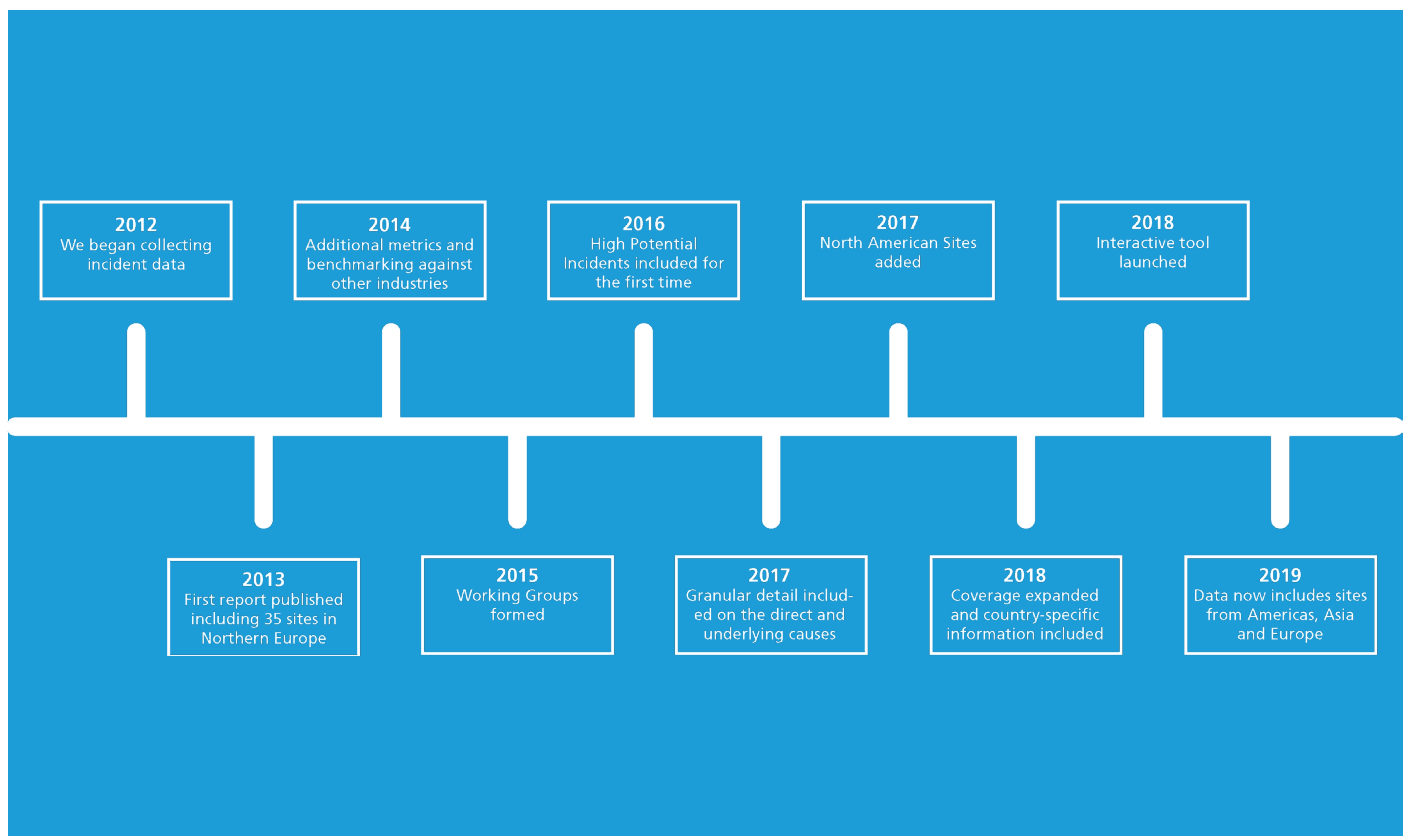
Transparent reporting and knowledge sharing are the bedrock of a safe offshore wind industry. The G+ was founded on the principal that, by developing a data-led risk profile for the sector, we can turn the spotlight on the critical activities, locations and processes and apply our combined resources to minimise the associated risks.

This is why, shortly after the G+ was created in 2012 (as a partnership with the Energy Institute), we began collecting incident data from all of our members. The data covered everything from near misses to lost time incidents on all member project sites, from development to decommissioning.

The first report captured incidents in 2013 from 35 sites in Northern Europe. We analysed the data to understand the risk profiles for different project phases, work processes and incident areas. This analysis identified the areas of highest risk: lifting operations, working at height and marine operations. To address this, the G+ (then called G9) established working groups to address and develop good practice guidance for each of these, directed by established Energy Institute processes.

That first report laid the foundations for a standard approach to data collection and analysis, with key benchmarks for consistent measurement and year-on-year comparison. As part of the analysis process, it was agreed that subsequent data collection should include number of hours worked, in order to capture frequency data and improve the accuracy of benchmarking and trend analysis.

So, from 2014 onwards key metrics have included Lost Time Injury Frequency (LTIF), a ratio of serious injuries per one million hours worked and Total Recordable Incidents Rate (TRIR) which measures all reported injuries per one million hours worked. This provides a quick and meaningful snapshot of annual outcomes and trends as well as a benchmark against other industries.



## Continuous improvement

As the number of sites reported on has grown year-on-year, the data has become increasingly meaningful. And as the data became richer, the analysis became more sophisticated – drawing out deeper insight and understanding of the dynamics affecting health and safety performance across the burgeoning sector.

For example, when the 2015 report demonstrated that manual handling and dropped objects were areas of higher risk, the G+ Focal Group investigated both topics and proposed scopes of further work. These were supported by the Board and taken forward as workstreams for delivery. Dropped objects is now the subject of special focus, in partnership with the organisation DROPS (Dropped Objects Prevention Scheme).

Similarly, the 2016 data captured high potential incidents for the first time, and this revealed that they were not consistent with lost workday incidents. Clearly, this was a significant disconnect and showed that a deeper understanding of the operational causes was needed. So, from 2017 onwards members began to submit more granular detail on the direct and underlying causes of lost work time incidents. This enabled the G+ to apply barrier-based incident analysis (standard practice in other industries) and also helped to inform the broader G+ work programme, including the Safe by Design workshops.



The G+ is very, very good at being data-driven. It means that as an industry they're really open to using the evidence to inform the activity they do and, as a result of that, they have a really positive impact on the health and safety performance of the industry.

Henrietta Frater,  
Head of HSE and Wellbeing  
The Crown Estate

Internationalisation is an increasingly strong driver, as the G+ is uniquely placed to support health and safety in emerging markets.

The 2017 report saw the addition of North American development sites and, for the first time, the data captured the country in which each incident took place.

In 2018, the coverage expanded to include an APAC site and country-specific information. We also created an interactive tool to enable users to quickly and easily interrogate the data and extract exactly the insights they need.

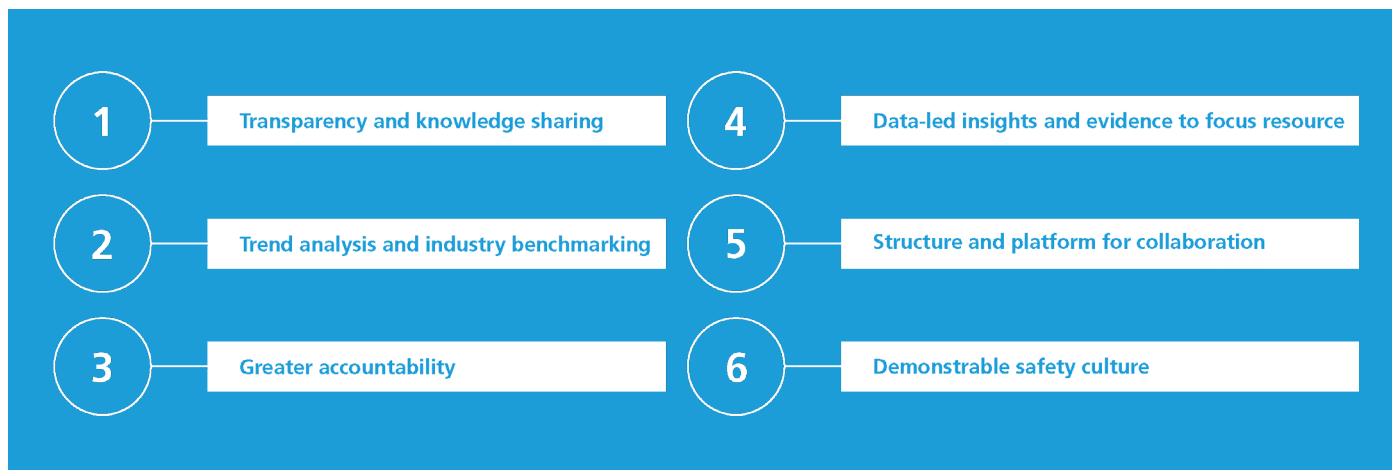
In 2019, the incident data includes a total of 74 sites across Europe, USA and Taiwan. Of these, three are in the USA and one in Taiwan.

Looking ahead, it is a key goal for 2020 to increase the number of sites we report on in the APAC region. In fact, we have recently launched a Focal Group for the APAC region to explore and develop opportunities for greater collaboration and knowledge sharing. We are investigating whether associate members can contribute their site data to increase the input from the region.

## Turning data into action

The incident data is an annual programme. Data is reported quarterly and carefully reviewed at a deep dive session. Each year, there is an annual data reporting review and the collection template is evaluated and refined, based on stakeholder feedback.

This structured approach helps to ensure the integrity of the findings and the decisions they inform. As a result, the incident data has shown itself to be an immensely powerful tool in several critical ways.



## Building on success

The incident reporting programme has evolved a great deal since its inception in 2013. The number of sites included has more than doubled and the global reach expanded to three regions.

But although we have made great progress, there is a long way to go and we are relentlessly driven to do better. That means deepening and broadening our engagement across the growing global sector and facilitating more and more collaboration. We are always looking for new ways to reach new and existing stakeholders; to share information and hear their views on how they use it and what else they need.



You should make decisions on safety using the data you've got. So if you collaborate with other organisations, you can share the data and you can see what the risks are - and if you're solving them. It's a really good thing to work as a team.

Clark MacFarlane  
Managing Director  
Siemens Gamesa

We do this for the same reason we do everything: because it is vital that our resources and activities are focused on the areas where they will make the most critical difference, and it is vital that our outputs are accessible and actionable. And because, ultimately, our activities are only meaningful if they are acted upon and used to bring about changes that make people safer as they carry out their work.

## Learn more about the G+ Work Programme

The G+ exists to deliver world class health and safety performance in the global offshore wind industry. G+ members and associate members include the sector's key players, including developers, manufacturers and service suppliers who commit resources and actively support our work. Working in close collaboration with partners from offshore wind and adjacent industries such as oil & gas, marine and construction, we drive a global health and safety agenda through our work programme which includes incident reporting, Safe by Design workshops and Good Practice Guidance.



### The right data

Transparent reporting and knowledge sharing are the bedrock of a safe industry. Our membership provide data on incidents so we can continuously improve health and safety.

### For everyone

G+ Annual reports and interactive tools are available for everyone to read and use.



### The right design

Design stage advice can reduce incidents throughout the lifecycle of an offshore wind farm. Holding a Safe by Design workshop allows industry to combine their knowledge and see where improvement or harmonisation is needed to create a safer, healthier industry.

### For everyone

The G+ Safe by Design Workshop Reports are available for everyone to read and use.



### The right guidance

Experience, expertise and consensus are essential for a safe working environment. Our series of Good Practice Guidance documents cover a range of subjects to provide the information you need.

### For everyone

The G+ Good Practice Guidance are available for everyone to read, use and continually develop.



## How to get involved with the G+

We invite participation from all organisations and individuals with an interest in improving health and safety performance in offshore wind. If you would like to be involved with any element of our work, or would like to be kept informed, please get in touch.

Email: [gplus@energyinst.org](mailto:gplus@energyinst.org)

[www.gplusoffshorewind.com](http://www.gplusoffshorewind.com)





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