

Health and Safety – Essential for Onshore Wind's Future

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Energy Institute (EI)

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The Energy Institute (EI)

A registered charity in the UK

'consensus' standards/
good practice developer

Technical research funding organization (c.\$2M pa)

>100 technical committees that generate knowledge

“The EI exists to develop and disseminate knowledge, skills and good practice to promote safe, secure, efficient and sustainable energy systems worldwide”

NGO, 100% reinvestment of any profit

Home for c.20 000 energy professionals worldwide

professional membership organization - Chartered status

Honest Broker between regulators and operators

Bringing together expertise for urgent global challenges

**Driving
world class
health and
safety
performance
in the wind
sector**

In partnership
with the



SafetyOn is the health and safety organisation for the onshore wind sector.

- Providing leadership in health and safety
- Driving a consistent approach through collaboration
- Risk mitigation through co-operation and shared learnings
- A single industry voice on health and safety matters
- Approach welcomed by the Health & Safety Executive

“Thousands are employed in the UK’s onshore wind industry and SafetyOn is playing a part in making sure they all go home safe”

SafetyOn

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VATTENFALL

Deutsche
Windtechnik

BANKS
Renewables
development with care

Falck
Renewables

natural
power

Statkraft

sse
Renewables

NORDEX

acciona
Windpower

ENERCON
ENERGY FOR THE WORLD

GE Renewable Energy

res

RWE

edf
renewables

SIEMENS Gamesa
RENEWABLE ENERGY

Vestas

Fred. Olsen Renewables

VENTIENT
ENERGY

SCOTTISHPOWER

Membership comprises leading owners & operators, O&M service provider/contractors and OEMs in onshore wind operations. There are two types of membership:

Tier 1 participation in SafetyOn is open to:

- Owner/operators with a minimum 200MW installed capacity in the UK;
- O&M Service Provider/Contractors with a minimum 200MW portfolio;
- OEMs with a minimum of 200MW delivered and operational capacity;

Tier 2 participation in SafetyOn is open to:

- Owner/operators of onshore wind generation with less than 200MW installed capacity in the UK;
- O&M Service Provider/Contractors to the Onshore Wind Sector; and
- OEMs and supply chain operational in the Onshore Wind Sector that do not qualify as Tier 1 members;



SafetyOn – what do we produce?

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Incident data reporting



Good practice guidelines



Safe by Design workshops



Safety releases



SafetyOn – what do we produce?

Onshore Emergency Response – good practice guidance for on shore wind energy developments

- Document sets out an approach that all Duty Holders are encouraged to apply, taking account of the specific risk profile of their projects, and their legal and contractual obligations. Developed through industry collaboration and is built upon good practice from other comparable industries

Research Report: An investigation into the root cause of fires in MW scale wind turbines

- Aim of the workstream was to provide a balanced view of the risks and mitigations relating to switchgear located both internally and externally to wind turbines

Safe by Design: Working under suspended loads – major component exchange

- Workshop, held in 2019 was attended by a cross representation of the “lifting industry”. Aim was to explore, challenge and improve the controls in place to prevent a dropped load during major component exchanges. It also covered the recovery mitigations in the event of a dropped load

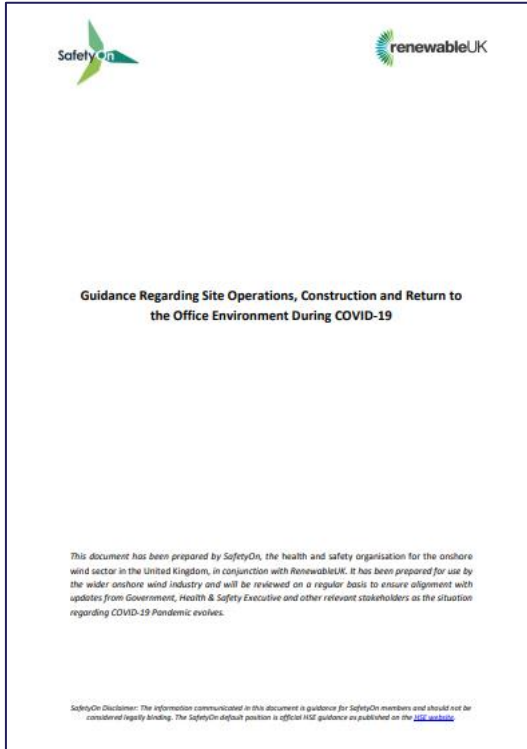
Human Factors in Renewables – e-booklet

- Short and practical introduction for Human Factors in the onshore wind industry



SafetyOn – what do we produce?

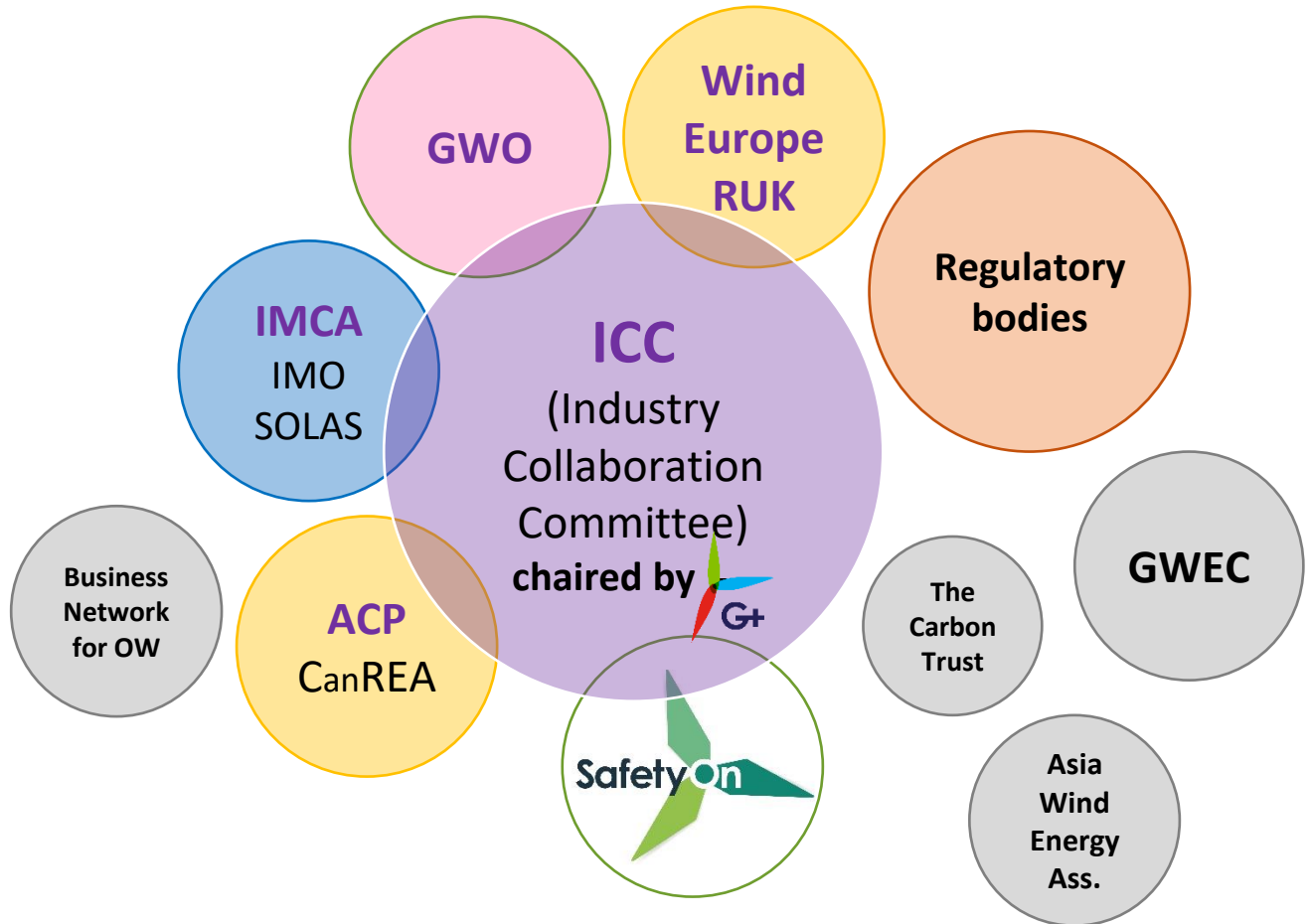
COVID 19 guidance



- Due to the nature of onshore wind (remote, spread out sites, with low personnel numbers) safe operation and maintenance activities could continue in line with government requirements
- The intent was to:
 - develop guidance that mainly consist of high level principals and considerations and to avoid becoming a compliance manual
 - To direct the user to all relevant guidance from UK and devolved Governments in addition to including information from the WHO and NHS
- Guidance began O&M activities, but moved to incorporating construction activities then return to office and has incorporated workforce mental health and wellbeing
- Guidance been developed with involvement from the HSE, RUK, Trade Unions, and Governments and is now included in Scot Gov online guidance
- Guidance continuously updated - currently version 13

Workstream 4	Wind Turbine Safety Rules
Workstream 5	Management of lifting
Workstream 6	Traffic management at site
Workstream 7	Decommissioning of wind turbines
Workstream 8	Human Factors/ Occupational Stress
Workstream 9	Electrical Safety: Hierarchy of control and competence
Workstream 10	Good practice guidance for working in confined spaces in WTG
Workstream 11	Construction Onshore Civils

Leadership and collaboration







Safety On

Thank you!

Questions?

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