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2012 HEALTH & SAFETY

Conference Programme



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The Crown Estate manages a highly diverse £7 billion UK property portfolio. We have extensive marine assets including the rights for marine renewable development within the Renewable Energy Zone out to 200 nautical miles. To date we have run five rounds of offshore wind development enabling the UK to be the world leaders.



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RenewableUK Membership

RenewableUK

RenewableUK is the UK's leading renewable energy trade association. Established in 1978, with over 690 corporate members active in the UK wind, wave and tidal stream energy industries. RenewableUK is at the forefront of the development of these sectors, protecting members' interests and promoting their industries to Government, business and the media.

RenewableUK plays a crucial role in bringing together all the key players around the vital issues affecting industry through its working groups and events. Members of RenewableUK range from the small independent companies to the largest international corporations, providing us with a united and representative voice and offering members fantastic networking opportunities.

For information on how to join the UK's leading renewables association, please visit the RenewableUK stand and speak to a member of the team. More information is also available online.

RenewableUK Member Benefits

Policy development

- Intelligence from industry specific political briefings
- Opportunity to influence RenewableUK responses to public consultations
- Participation in RenewableUK meetings, workshops and seminars
- Access to RenewableUK working groups

Business development

- Networking opportunities with leading industry players
- Permission to use RenewableUK logo on member's own promotional material
- Industry specific press releases
- Promotional materials and standardised industry information
- Discounts on exhibition space and entry at RenewableUK events and conferences
- Member listings and job advertisements on RenewableUK website

Market information

- Daily media monitoring on wind and marine renewables industries
- Quarterly magazine Real Power
- Research and statistics produced by RenewableUK
- Privileged access to members only area of RenewableUK website including UKWED; RenewableUK's own comprehensive database on wind energy developments throughout the UK

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Foreword



I am delighted to welcome you to our eighth annual Health and Safety conference. This year you will be joined by over 400 delegates and 17 exhibitors, an indication of the importance that our sector attributes to Health and Safety issues.

The priority we accord as an industry to providing a safe working environment for employees and for members of the public is not always reflected in the isolated high-profile incidents that receive media attention. This year has reinforced the message that alongside our delivery of effective management of health and safety issues, we must engage with key stakeholders to ensure that risks are known and understood.

On that note, we are very pleased to note the strong public commitment shown by many members of the industry in signing up to our Offshore Wind & Marine Energy Health & Safety Accord. Signatories of the accord demonstrate their public commitment and support for delivery of health and safety excellence in the UK offshore renewable energy sector, in order to continue to make the UK a leader as a safe and responsible jurisdiction in which to do business. The Accord

has the backing of the Health & Safety Executive, and we hope if you have any involvement in the offshore sector, you will consider signing up.

The rapid expansion of the industry planned in the next ten years will require effective health and safety management, in order to help ensure that projects are delivered on time and to budget. RenewableUK has expanded its health and safety team to help meet these challenges, and now offers a broader range of services to our members. This comes with the express support of RenewableUK's Board, which recognises that delivery on the scale planned can only come about if the tens of thousands of new employees we expect to join us are properly protected.

With this in mind, I wish you a productive and successful Health and Safety Conference, and look forward to another year of achievement.

Maria McCaffery MBE
Chief Executive
RenewableUK

Looking for Excellence — Learning from Experience



Welcome again to our 8th Annual Health & Safety Conference.

The continued support and success of the conference reinforces our commitment to ensure that the health and safety agenda remains central to the wider development and growth of this exciting sector. As every safety professional knows, good health and safety far from being a burden, is an integral part of any successful business wishing to deliver projects on time and on budget.

Our theme of “Looking for Excellence— Learning from Experience” is a reflection of the commitments set out in our Offshore Wind & Marine Energy Health & Safety Accord. It is also a powerful statement for the whole industry to reflect on. Whilst we may never achieve excellence every time — the commitment to trying to achieve it will drive the continual improvement standards that will be demanded. Likewise, whilst our growth in recent years has been impressive and we are all are excited about the next project, it is important that we periodically reflect and learn from our experiences when things have gone well or perhaps not so well.

2011 was another busy year all round with a number of major initiatives and outputs coming to realisation. Perhaps the two most significant are the Offshore Wind & Marine Energy Health & Safety Accord and our Health and Safety Awards.

The Accord

Signatories of the accord are demonstrating their public commitment and support to delivering health and safety (H&S) excellence in the UK offshore renewable energy sector in order to continue to make the UK a leader as a safe and responsible jurisdiction in which to do business. Further they state their explicit support to a common set of shared values and principles to enable continual improvement in Health & Safety performance. Support from stakeholders has been extremely positive. The HSE have stated “[HSE]... recognises and applauds RenewableUK’s proactive leadership in seeking improvement for health and safety outcomes across the offshore wind and marine energy sector. We encourage and value such leadership which is key to achieving good health and safety performance and acknowledge the development of the accord as an example of what such leadership can deliver.”

Whilst early sign up has been positive – we have a long way to go to ensure that the Accord is embedded across the supply chain. We hope if you have any involvement in the offshore sector that you will sign up if you have not done so far already.

The Award

A key message from our keynote speaker from last year Lawrence Waterman (Head of Health & Safety for the Olympic Delivery Authority), was the importance of celebrating success. We are delighted to say we have been as good to his word as shown by the announcement of the first ever health and safety awards within the renewable energy sector. The jointly supported award from RenewableUK and The Crown Estate has sought to identify initiatives that demonstrated:

- Outstanding health & safety performance and innovation;
- Successful sharing of health &

- safety best practice;
- Substantial impact on risk reduction; and
- Long term improvement in health & safety performance.

We are delighted that Lawrence is returning 12 months later to present the first award to our successful winner. We hope this initiative will prompt many of you to put in an application for next years award.

Despite these positive initiatives it is important to reflect that at times our public and media profile on health and safety grounds has not always been positive. A few isolated, but nonetheless high profile incidents have reinforced the importance of engaging with key stakeholders on health and safety. While good health and safety risk management focuses most time and attention on preventing and minimising health and safety risks across the life cycle of projects – this approach sometimes fails to recognise the importance the “perception of risk”

plays out from a media and public perspective as they are often quick to judge our performance based on isolated events alone. In responding to this position RenewableUK will continue to take a proactive lead in promoting all the positive health and safety initiatives we see from across the sector including, for example, a very relevant example in the KPI's and Benchmarking project.

Finally I would like to express my personal thanks to everyone who has given me and our team at RenewableUK support in the last 12 months. As a membership organisation we are reliant on the dedication and passion of many "hidden heroes" who go beyond the call of duty when attending meetings, contributing to consultations and generally giving their time to raising health and safety standards. A very big and sincere thank you to all of you for this support.

I hope and expect you will enjoy what I am confident will be an exciting conference with numerous opportunities to share and learn new information and perhaps take five minutes to reflect on all the amazing health and safety achievements you have all played a part in to date. Congratulations.

Chris Streatfeild

Director of Health & Safety
RenewableUK

2012 and beyond

Following a direction from the main Board a decision was taken by the Health & Safety Strategy Group to set out a clearer long term strategy for taking the industry forward. The primary objective is to set out a new direction for the work plans and initiatives going forward, thereby setting us on a more proactive path to raising the standards of health and safety.

Our vision is to “be a leading enabler in the delivery of an expanding UK wind, wave and tidal sector free of fatalities, injuries and work related ill-health”. This makes very clear that while RenewableUK will play a leading and central role, a safe and successful industry is dependent on everyone playing their part.

Our work plans are being finalised, however five key areas have been agreed where RenewableUK will aim to champion, lead and deliver tangible health and safety outputs.

These are:

1. Leadership & Engagement

To act as the leading representative voice in championing health and safety on behalf of all participants operating in the wind, wave & tidal industry.

2. Guidance & Good Practice

To ensure the development of health and safety guidance and good practice information on relevant technical, legal or policy matters that addresses the needs of the core membership of RenewableUK.

3. Policy & Regulatory

To ensure we undertake appropriate consultation and engagement with members, key statutory, governmental and other agencies to keep abreast of relevant health & safety issues and as necessary to lobby on relevant health and safety affairs on behalf of members. In addition demonstrating our capability to remain regulated within the existing Health & Safety regulatory regime as evidenced by our strategy and resulting work plans/initiatives.

4. Training & Skills

To promote the importance of high quality skills and education by providing clear direction on health and safety training and competence standards across the sector.

5. Statistics and Benchmarking

To ensure we put into effect enhanced systems to obtain, collate, interpret and share accident and incident data. This to be conducted to enable suitable benchmarking and lessons learned experiences to be widely shared and communicated in a user friendly and timely manner.



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Programme Overview – 1 February

Looking for Excellence – Learning from Experience

	Stream A Deansgate 3	Stream B Deansgate 2
08.30–09.15	Registration, coffee & exhibition	
09.15–10.15	Opening Session <ul style="list-style-type: none"> – Chair and Welcome: Maria McCaffery, Chief Executive, RenewableUK – Core Sponsor Address: Alastair Dutton, Round 3 Programme Manager, The Crown Estate – Keynote Address: Judith Hackitt, Chair of the Health and Safety Executive 	
10.15–11.00	Coffee, exhibition & networking	
11.00–12.15	A1: Design & Project Management <ul style="list-style-type: none"> – Chair: Julian Hubbard, Group HSQE Manager, RES – Dr Chris Robinson, Principal Consultant, MMI Engineering Ltd – Donald Brown, Senior Principal Engineer, Cleaner Energy and Utilities UK, DNV – Jeremy Carnell, Principal Consultant, PMSS 	B1: Safety & Emergency Response in Offshore Wind <ul style="list-style-type: none"> – Chair: David Farrier, Head of Business Improvement, E.ON Climate and Renewables – Peter Owen Lloyd, Head of EHS Strategy within Siemens Service Renewables, Siemens Wind Power A/S – Matthew Sharp, Managing Director, M & CM Ltd – Dave Nicholls, Safety Manager, Step Change in Safety
12.15–13.45	Lunch, exhibition & networking	
13.45–15.00	A2: Regulation & Compliance - What Does it Mean? <ul style="list-style-type: none"> – Chair: Simon Joyston-Bechal, Partner, Pinsent Masons LLP – Rob Elvin, European Head of Safety, Health and Environment, Squire Sanders – Thomas Herd, Lawyer, CMS Cameron McKenna LLP – Ann Metherall, Partner, Burges Salmon LLP – Jonathan Berman, Director, Greenstreet Berman Ltd 	B2: Leadership & Engagement <ul style="list-style-type: none"> – Chair: Michael Lewis, Managing Director Europe, E.ON Climate & Renewables – Dave Nicholls, Safety Manager, Step Change in Safety – Peter Hodgetts, Marine Health & Safety Champion, The Crown Estate – Mathew Holder, Head of Campaigns and Engagement, British Safety Council – Robin Stowell, Partner, Converconsulting
15.00–15.30	Coffee, exhibition & networking	
15.30–16.45	A3: Beyond Compliance - Case Studies & Best Practice <ul style="list-style-type: none"> – Chair: Chris Streatfeild, Director of Health & Safety, RenewableUK – Dirk Schreiber, QHSE Manager, Hochtief Solutions AG - Civil Engineering and Marine Works – Nigel Shaw, HSSE Advisor, Gardline – Alistair Mackinnon, Operations Manager Wind Energy, NEL – Dr Coleen Butler, Human Factors Specialist, Health and Safety Laboratory 	B3: Looking Ahead - What Next for Renewables? <ul style="list-style-type: none"> – Sam Dorling, Information Systems (IS) Manager, BMT Defence Services Ltd – Breanne Gellatly, Offshore Wind Accelerator Delivery Manager, The Carbon Trust – John Reynolds, Director and Fellow, SAMI Consulting
16.45–17.00	Closing Address <ul style="list-style-type: none"> – Chris Streatfeild, Director of Health & Safety, RenewableUK 	

Opening Session

Maria McCaffery
Chief Executive, RenewableUK



Chair and Welcome

Maria McCaffery was appointed Chief Executive of RenewableUK in June 2006. She is a graduate Chemist with a long track record in business support, international trade and national membership organisations. She is passionate about renewable energy systems and now champions the use of the UK's natural energy resources for electrical power generation, primarily from wind, wave and tidal technologies. With a strong focus in policy development and communications, she is engaging with industry, government and the finance sector to accelerate the deployment of all forms of renewable energy. In 1998 Maria was awarded an MBE for her services to international trade.

Alastair Dutton
Round 3 Programme Manager, The Crown Estate



Core Sponsor Address

Alastair Dutton is Programme Manager at The Crown Estate and leads the offshore wind development team including Round 3. His career has been dedicated to low carbon and renewable energy, including roles in research, projects, marketing and operations. Following 15 years at BP he joined The Crown Estate in 2008. Building on the timely signing of the Round 3 agreements, Alastair took the business operational in 2010. A team of over 25 people is now working directly with the 9 zone partners and leading national enabling initiatives. Additionally he is responsible for strategic workstreams, with the aim of facilitating a fast growing offshore wind industry that delivers at scale.

Judith Hackitt

Chair of the Health and Safety Executive

Keynote Address

Judith was appointed Chair of the Health and Safety Commission with effect from 1 October 2007 for a term of 5 years and became Chair of the Health and Safety Executive when the two organisations merged on 1 April 2008. Judith previously served as a Commissioner between 2002 and 2005. She was awarded her CBE for services to health and safety. Judith worked in Brussels for the European Chemical Industry Association (CEFIC) in 2006/7. She worked at the Chemical Industries Association as Director of Business and Responsible Care (1998-2002) and Director General (2002-2006).

Judith began her working career in 1975 with Exxon Chemicals where she spent 15 years in various process management roles at Fawley. She was subsequently European Operations Director of a speciality pigments business before becoming Group Risk Manager at Elementis PLC with world-wide responsibility for health and safety, insurance and litigation. She also served for three years as a non-executive Director of Oxfordshire Health Authority. Judith trained as a Chemical Engineer at Imperial College, London and is a Fellow of the Institution of Chemical Engineers, an Ordinary Member of Council of the Institution of Chemical Engineers, a Fellow of the City and Guilds Institute and an Honorary Vice President of the Institution of Occupational Safety and Health. She was elected as a Fellow of the Royal Academy of Engineering in July 2010. Judith was appointed as a non-Executive Director of the Energy Saving Trust in January 2009. She became a Trustee of the National Coal Mining Museum for England in June 2009. Judith has also been named as the president-elect of the Institution of Chemical Engineers (IChemE) for 2013/14. She will take up the role of deputy president in 2012-2013. She is not engaged in any political activity.



A1: Design & Project Management

Julian Hubbard
Group HSQE Manager, RES



Chair

Julian joined RES in 2006 as the Group HSQE Manager. He is responsible for the RES Group HSQE Management Systems and runs a department working on a wide range of renewable energy HSQE issues. Qualified in both Electrical and Electronic Engineering and Health and Safety he is a Chartered Engineer and Chartered Member of IOSH, having over twenty years experience in health and safety and a specialist background in safety critical/ related systems, standardisation and certification. Julian has been a member of the RenewableUK Health and Safety Strategy Group for a number of years and joined the EWEA Safety Group in 2011.

Dr Chris Robinson
Principal Consultant, MMI Engineering Ltd



A Risk Assessment Methodology for Onshore Wind Turbines Developed for the UK HSE

MMI Engineering has recently carried out a study for the HSE to develop a standard methodology for risk to persons in the vicinity of onshore wind turbines — this will be published as a HSE Research Report in 2012. Research has also been carried out to gather data for wind turbine failure rates. The risk assessment methodology produces contours of probability of harm, and fatality by direct and indirect impact of thrown blades and fragments. The contours produced by the methodology may be assessed as Location Specific Individual Risk when they are combined with the frequency of failure of the wind turbine.

Dr Chris Robinson joined MMI Engineering in 2005 where he provides fluids engineering expertise to support MMI's consultancy in safety engineering, risk management and major accident hazards engineering. Chris works across a range of industries including: Oil & Gas, Low Carbon Technologies, Water, Defence, Nuclear and Aerospace. He gained his PhD in computational fluid dynamics and turbulence modelling mid-career at UMIST, 2001. Previously he worked for Bechtel Ltd on a range of water, rail and mining projects and the UK Ministry of Defence as the RN technical authority on high pressure gas cylinders.

Donald Brown

Senior Principal Engineer, Cleaner Energy and Utilities UK, DNV

Managing Safety Through Effective Design – Review of Emerging Good Practice

The presentation will focus on the demands, solutions and opportunities, from a design perspective, required to address current and predicted future Health & Safety challenges as they potentially do and could affect the onshore and offshore wind industry. It will summarise and refer to the themes, content and pleas from the industry, as presented and discussed in the RenewableUK Seminar – “Managing Safety through Effective Design”, held on 8th Dec 2011, and this will be further augmented by the predicted needs of the Offshore Wind Industry as this extend its reach further from shore and into a harsher environment.

Mr Brown has 23+ years of experience within the offshore oil, gas, maritime and wind industries. He has a BEng in Naval Architecture and Offshore Engineering and joined DNV in 1990. His experience includes construction, hook-up and commissioning of offshore facilities and the management of mature offshore production assets. With specific emphasis on managing the health and safety, and asset integrity, of late life offshore structures. He has lived and worked internationally, and has had a leading role in DNV's UK business unit focussed on offshore wind.

**Jeremy Carnell**

Principal Consultant, PMSS

CDM in Design – A Helping Hand Or Compliance Burden?

One of the guiding principles of the Construction (Design & Management) Regulations 2007 has been to consider the elimination of hazards and mitigation of risk through good and innovative design. This has translated into clear duties upon Designers within the regulations. There are good and established processes for Design Risk Analysis, but do all organisations really embrace this as a means of driving improvement and innovation in project development? Are there still organisations that see this as a time consuming and burdensome exercise with little value? This session demonstrates DRA as an essential tool for project development and for fostering innovation.

Jeremy was one of the first Safety and Health professionals to achieve Chartered Membership Status when IOSH first received royal charter in 2004; he is also a member of the Association for Project Safety. Over a long career Jeremy has gained extensive experience in Safety and Health Management in the renewable energy industry. Jeremy's past experience includes roles as HSE Manager, CDM Coordinator, Project Manager, Electrical Engineer and Senior Authorised Person for High Voltage Network Projects. Jeremy has remained a member of the RenewableUK Health & Safety Strategy Group since 2005 and is vice chair of the RenewableUK safety training group.



B1: Safety & Emergency Response in Offshore Wind

David Farrier

Chair of the RenewableUK Health & Safety Strategy Group, RenewableUK Board Member and Head of Business Improvement, E.ON Climate and Renewables



Chair

David holds directorships within the E.ON Climate & Renewables UK group and has 16 years renewables experience, mainly in the wind sector. This includes management roles through the project life cycle for both onshore and offshore projects. David has been playing a key role in the delivery of offshore wind farms including the implementation of OFTO arrangements on the Robin Rigg and London Array projects. He currently heads up UK based initiatives to leverage best practice across the EC&R business and where relevant, the wider EC&R group. David works with RenewableUK staff and industry representatives to deliver means of improving H&S performance in the UK wind industry.

Peter Owen Lloyd

Head of EHS Strategy within Siemens Service Renewables, Siemens Wind Power A/S



Update on REFF

The Renewable Energy Emergency Forum was established towards the end of 2011 to coordinate RenewablesUK activity in support of Emergency Response within the Offshore Renewable area. It aims to provide a forum where all key stakeholders may meet to discuss issues, propose acceptable solution and prepare for the expansion of the sector under Round 3. Key stakeholders represented include: Maritime Coastguard Agency, Ministry of Defence, Health Safety Executive, Civil Aviation Authority, Wind farm operators, Turbine manufacturers, marine and aviation service providers. REFF's objective is to assist the industry to plan and prepare for eventualities, building on the experiences gained in comparable industries and to ensure that lessons identified are shared as quickly as possible.

Peter Owen Lloyd joined Siemens Service in Brande Denmark in 2011 and is responsible for developing the EHS strategy for Siemens EHS Service Renewable Global activity. He brings 30 years experience in the delivery and coordinating of UK National Search and Rescue assets to the expanding Renewable Energy Industry. In his last four years in the Royal Air Force he coordinated the development of the standard operating procedures for helicopter rescue from offshore renewable energy structures. More recently he has assisted in establishing the likely size of the offshore renewable industry in 2010 and the likely impact on National assets.

Matthew Sharp

Managing Director, M & CM Ltd

Beyond Evacuation: When Reality Replaces Reporting

With so much paperwork involved in Health and Safety work in the offshore sector, it is easy to forget that, when things go seriously wrong, it's the actual people that need looking after. Companies and their employees are not in control when an emergency evacuation takes place and that leaves everyone feeling exposed, from the victims themselves to personnel and operations staff. This presentation will look at how well-planned post-evacuation support can help maintain a company's reputation and keep future contracts coming.

Matthew Sharp (BA Hons) MCIPR, Managing Director, M&CM Ltd. A founding partner of M&CM, Matthew has over 10 years' experience in crisis management and some 30 years' experience at senior levels in public relations for the international motor industry. He started his career in British Leyland in the 1970s dealing with many tough industrial and business issues as well as product-related matters. As PR Manager for Land Rover, he helped build one of the world's most famous brands before his appointment as Public Affairs Director of Citroen UK Ltd where he stayed for eight years before setting up M&CM.

**Dave Nicholls**

Safety Manager, Step Change in Safety

Helicopter Safety in Oil & Gas: Experience & Update on Issues Arising Recent Offshore Helicopter Incidents in the UK

Following recent offshore-related helicopter incidents lessons have been learnt by the oil and gas industry and aviation industry. Action has been taken on a range of issues to improve safety of offshore helicopter operations in the UK. These are summarised in the presentation along with areas that may be of interest to the offshore renewables industry.

Dave manages the Step Change in Safety support team and sits on its Leadership team. An experienced safety professional who began his safety career in 1992 as an HSE Inspector during which time he worked in the general manufacturing, construction and hazardous installations sectors. He worked as a safety adviser for a large global pharmaceutical company at a top-tier COMAH site and was their Safety Case Manager. This was followed by an HSE Manager's role with a large global brewer in the UK. Dave sits on the Health and Safety Executive Offshore Industry Advisory Committee and its Workforce Involvement Group.



A2: Regulation & Compliance — What Does It Mean?

Simon Joyston-Bechal
Partner, Pinsent Masons LLP



Chair

Simon is a Partner heading the specialist national Health & Safety Team at Pinsent Masons LLP with a particular interest in safety for the renewable energy sector. He acted for Cotswold Geotech in defence of the first prosecution under the new Corporate Manslaughter legislation. Having qualified as a doctor before becoming a solicitor, Simon is uniquely placed to cover all safety or health related aspects of disputes and regulatory matters.

Rob Elvin
European Head of Safety, Health and Environment, Squire Sanders

Health and Safety Legal Update: Is Compliance Getting Any Easier?



The talk will briefly review Health & Safety legal developments over the last 12-18 months, including Lofsted, the HSE's chargeback scheme; challenging improvement notices; the concept of foreseeability following Baker, Tangerine and Veolia; and the sentencing trends.

Rob's particular expertise covers health, safety and environment (including nuisance, noise abatement, pollution, permit appeals and environmental warranty and civil claims), judicial review, Corporate Defence (including bribery and corruption, OFT investigations and corporate manslaughter), inquest law, food hygiene and safety, transport law, including public inquiries in front of traffic commissioners, product safety, liability and recall and he is a solicitor-advocate. Rob also lectures on issues such as corporate manslaughter, product safety and defending all manner of regulatory prosecutions. Rob has particular sector expertise in the nuclear, gas and electricity generation and distribution, wind energy, chemicals, engineering and construction industries

Thomas Herd

Lawyer, CMS Cameron McKenna LLP

Interfacing with Third Parties

Operators, contractors, sub-contractors — there are usually many parties involved in the construction, operation and maintenance of renewable assets. So how are obligations and liabilities apportioned under the law and what practical things should you be doing to ensure that all parties work together to reduce risk and exposure to legal liabilities? A brief case study will highlight the issues.

Thomas is a member of CMS Cameron McKenna's Health and Safety Team. Amongst other things, the Team advises clients on regulatory compliance, investigation of health and safety incidents and regulatory prosecutions.

**Ann Metherall**

Partner, Burges Salmon LLP

The Future of CDM

When the CDM 2007 came into force, the Government gave a commitment to review the regulations after three years. Reviews were underway before Professor Lofstedt made his recommendations. This presentation will consider the current problems with CDM 2007 and some of the likely fixes.

Ann is dual qualified as a Solicitor and Chartered Civil Engineer. She advises clients on commercial disputes and regulatory issues. Her health and safety work includes defending prosecutions; advising clients on major accident responses; representation at inquests; advising clients on safety management systems and business risk mitigation; and the implementation of European legislation. Prior to commencing her legal career, Ann gained considerable experience as an engineer in the rail industry including as a designer, resident engineer and as a Permanent Way Maintenance Engineer with "safety of line" responsibility. Her operational experience of managing heavy rail infrastructure brings a high degree of pragmatism to her advice.



Jonathan Berman
Director, Greenstreet Berman Ltd



Earning Compliance – How Do We Encourage The Right Behaviours?

High-reliability organisations are dependent on people following agreed processes — whether set out in instructions or through competence. How do we ensure they understand those processes and the importance of compliance? How do we control the tendency towards short-cuts and ‘better ways of doing it’, particularly in autonomous teams? The Supervisor frequently bears the brunt of this challenge — needing to be not only a manager, but also as a coach and mentor. How do we equip supervisors with the skills to encourage and ‘earn’ the right behaviours? When we get it right, the organisation improves and becomes more resilient to gradual erosion of standards.

Jon is a Chartered Psychologist and Fellow of the Institute of Ergonomics and Human Factors, with over 30 years experience of human factors in high-hazard organisations. His early career was in aviation, before moving to the nuclear power sector just months before the accident at Chernobyl. He has since had a particular interest in how people take decisions, the factors influencing safe behaviour, and organisational drift — why performance gradually degrades. He is a Director of Greenstreet Berman Ltd — a risk management and human factors consultancy. He is President-Elect of the IEHF, and in 2006 received the IChemE Hutchison Medal for work on Organisational Drift.

B2: Leadership & Engagement

Michael Lewis

Managing Director Europe, E.ON Climate & Renewables

Chair

Michael Lewis has seventeen years experience working in the energy industry in various technical and environmental roles. He was formerly UK Strategy Manager for Powergen, and following the acquisition of Powergen by E.ON, he became Vice-President, Corporate Development. In 2007 he was appointed as Managing Director for Europe on the Board of E.ON Climate & Renewables.



Dave Nicholls

Safety Manager, Step Change in Safety

Workforce Engagement: Experiences from the Oil and Gas Industry

A fully engaged workforce will deliver a safer workplace and improved overall business performance. How do you move an entire industry towards more effective workforce engagement? Dave will talk about the work of Step Change in Safety to develop a UK oil and gas industry survey tool that can be used, at a worksite level, to drive continuous improvement in workforce engagement. He will also talk about the importance of linking the survey results to changes in behaviour and the sharing of good workforce engagement practices across the industry.

Dave manages the Step Change in Safety support team and sits on its Leadership team. An experienced safety professional who began his safety career in 1992 as an HSE Inspector during which time he worked in the general manufacturing, construction and hazardous installations sectors. He worked as a safety adviser for a large global pharmaceutical company at a top-tier COMAH site and was their Safety Case Manager. This was followed by an HSE Manager's role with a large global brewer in the UK. Dave sits on the Health and Safety Executive Offshore Industry Advisory Committee and its Workforce Involvement Group.



Peter Hodgetts

Marine Health & Safety Champion, The Crown Estate

**Leadership in Health & Safety**

What does the word 'Leadership' mean? It's the Chief Executive who leads by example and takes the time to go to site regularly and demonstrates that he is willing to set aside the time to meet with the people who are at risk. RenewableUK and The Crown Estate are looking to show 'Leadership' by developing initiatives that can educate, guide and consequently improve the Health & Safety culture within the Renewables Industry. Often 'Leadership needs courage because it can be going against other commercial, reputational and time constraints. It's always looking after people and that's why it's so vital.

Peter Hodgetts is a Master Mariner and mechanical engineer with a lifetime of experience in offshore construction and marine projects. He was the founder and Chief Executive for SeaRoc Group Ltd and now works for The Crown Estate as their Health & Safety Champion Peter came into the offshore renewables industry more than ten years ago and is experienced in all aspects of offshore construction and the issues of working in the marine environment. He has been heavily involved in the whole life cycle of several offshore wind farms as well as being actively engaged in several wave and tidal device projects. He sits on the RenewableUK Health & Safety Strategy Group and has extensive knowledge and experience of developing a strong Health and Safety culture offshore.

Mathew Holder

Head of Campaigns and Engagement, British Safety Council

**Leadership With New and Young Workers**

Leadership and involving workers are two sides of the same coin. Statistics on health and safety failures tell us this is particularly important when dealing with those new to the job or who are young. The British Safety Council is a charity that campaigns for the health and safety of young workers and has information to share on what works in this area.

Matthew Holder started work for the British Safety Council as head of campaigns in August 2011. His focus is developing messages and communicating these messages to a wide as audience as possible. Before that he worked for the Foreign and Commonwealth Office on international climate change, and between 2001-2005 for the HSE, including on worker involvement and the Worker Safety Adviser pilot.

Robin Stowell
Partner, Converconsulting

Managing Incompetence

In most H&S policies there is sentence that proclaims the company will aim to prevent injury. This is implemented through risk management and if all goes as planned, there will be a reduction in incidents. If the strategy that drives safety management focuses on the reduction of liability as the desired result then many more factors can be considered. If competence is considered as a combination of assessment criteria, then it can be expressed as a mathematic function. How that function is constructed depends on the complexity of the activities. Therefore holistic safety management enhances existing risk management and enables management actions to reduce liability.

Robin Stowell completed a successful and rewarding 18 year career as a Royal Naval Engineer Officer during which time he became a Chartered Marine Engineer & Chartered Safety Practitioner. For 3 years of this time he was appointed to the Royal Navy Headquarters as the Fleet Safety Health & Environment Officer and then culminating his military experience as the Head of the Marine Engineering Department onboard a 7000 tonne warship. He transitioned to the renewables industry in 2008 and has held positions with SeaRoc Group and GL Garrad Hassan and is now Lead Renewables 'Conversultant' with Converconsulting.



A3: Beyond Compliance — Case Studies & Best Practice

Chris Streatfeild

Director of Health & Safety, RenewableUK



Chair

Chris Streatfeild is Director of Health and Safety at RenewableUK. Chris is a Chartered Member of IOSH (CMIOSH) and also a Chartered Environmentalist (CEnv). He has well over twenty five years of health and safety experience covering a range of industry sectors. He spent nearly 15 years working in the engineering and manufacturing sector followed by 5 years in legal services advising on a variety health, safety and environmental matters. Chris in his secretariat role at RenewableUK leads the coordination of the main Health & Safety Strategy group and supporting workings groups. He also takes an active lead on behalf of the sector when championing the Health & Safety interests and priorities for the sector with key stakeholders including regulators, the government and key industry partners. Chris is also member of several committees including BSI and European standards groups representing the interests of the renewable energy sector.

Dirk Schreiber

QHSE Manager, Hochtief Solutions AG — Civil Engineering and Marine Works



Project Horn Sea Met Mast — Building A Project Related HSE Culture Within A Multinational Environment

The met mast installation for the Horn Sea Zone is the first realised project for Round 3 offshore installations. The presentation covers the challenges related to HSE working really offshore and HOCHTIEF's strategy to mitigate it. It also points out the related cultural aspects and dynamics for a multinational project within a harsh environment.

Dirk Schreiber has worked in HOCHTIEF SOLUTIONS since May 2011 as QHSE Manager to coordinate all HSE aspects for Marine and Offshore Wind projects. Dirk worked for 13 years in Shell in various roles within the areas of HSE, business improvement and cultural change, locally and globally. He worked 6 years at engineering consultancy company as project manager. Dirk Holds an university degree in Chemical Engineering (TU Hamburg–Harburg) and additional qualification as Occupational Safety Specialist (Germany).

Nigel Shaw
HSSE Advisor, Gardline

Offshore Lifting Operations

With over 40 years of marine experience, lifting operations are an everyday occurrence for Gardline. Without careful planning and suitable mitigation these operations can potentially create a fatal hazard, as we nearly found out to our cost in 2011. Having instilled all necessary safe working practices to meet all legal, financial and morale obligations, one safeguard failed exposing one of our workers to severe risk. A multi-causational 'near miss' incident at a routine pick up at the end of a busy day could have led to the worst day in Gardline's history.

As prime HSSE contact for all departments, subsidiary companies and external bodies (including clients, government agencies, inspectorates and other authorities) of Gardline's broad range of offshore survey packages, Nigel Shaw supports employees with procedural review, training, technical advice, site inspections and incident investigations. He has extended his support to working offshore to ensure that any training and advice is relevant, practical and specific to suit each individual task and personnel involved.

Alistair Mackinnon
Operations Manager Wind Energy, NEL

Testing and Certification of Small Wind Turbines — Some Lessons Learned

This presentation will briefly review some of the technical challenges and lessons learned from the testing and certifying of small wind turbines in accordance with the IEC 61400 series of Standards. Reference will be made to the simplified load model approach. In addition some of the practical health and safety issues that have manifest themselves in field trials will be explored. Lessons learned and where Standards may be improved will also be discussed.

Alistair joined the UK's National Engineering Laboratory (NEL) in 1984 having studied Electrical and Electronic Engineering at both Glasgow College of Technology and the University of Strathclyde. His early career was spent working on the hydraulic noise and the acoustic characteristics of submarine systems. In the late 1980's and early 1990's Alistair served on the early IEC committees that were drafting the acoustics standards for wind turbines — IEC 61400-11. He was seconded to the UK's Department for Trade and Industry (DTI) in London during NEL's privatisation in the mid 1990's and now has responsibility for NEL's wind business as Operations Manager.



Dr. Colleen Butler

Human Factors Specialist, Health and Safety Laboratory

**Ageing Workers – Lessons for Renewables**

There are many misconceptions about the effect of age on the work ability of older workers. Whilst there is evidence that physical abilities decline with an increase in age, these do not necessarily have a negative impact on performance at work. Numerous factors influence the association between age and performance including functional capacity, work demands, work environment, stress, shift work and expertise. The Health and Safety Executive's (HSE) policy concerning ageing and work is to fit the job to the worker and allow for workplace changes to be made and therefore an older workforce has implications for the health and safety responsibilities of employers.

Colleen Butler (BA MSc PhD) is a Human Factors Specialist in the Human Sciences Unit at the Health and Safety Laboratory (HSL). At HSL, Colleen has worked on a wide range of projects for high hazard industries which have included the measurement of safety culture, human factors assessments of COMAH safety reports and the development of Safety Performance Indicators for the Explosives Sector. Colleen has recently undertaken work to gather evidence to help inform HSE's strategy relevant to an ageing workforce.

B3: Looking Ahead - What Next for Renewables?

Sam Dorling

Information Systems (IS) Manager, BMT Defence Services Ltd

Safety Performance Monitoring — Knowledge Transfer from the UK Defence

Safety performance monitoring is of vital importance to the UK Ministry of Defence (MOD). Analysis of safety performance can be a costly and time-consuming process when accounting for a large number of defence platforms and various project teams. The latest web-based technologies have been used to help reduce the costs, timescales and degree of effort required for the MOD to successfully capture and review safety information and ultimately highlight safety performance across the organisation. Sam Dorling will present the adopted approach and how this knowledge can be transferred to the renewable energy sector — a sector that faces similar challenges.



Sam Dorling has been working in the software development industry for over 10 years. He has worked as a systems developer, analyst and project manager for different commercial sectors including health, defence and commercial. Sam has acted as lead developer and project manager on a number of software projects for the UK Ministry of Defence (MOD). These projects include ASSERT — a safety and environmental reporting system used by the Air Support, Combat Air, Helicopters and Ships Operating Centres. Sam's key focus on all software solutions he has helped produce is to improve efficiency and reduce costs for business processes.

Breanne Gellatly

Offshore Wind Accelerator Delivery Manager, The Carbon Trust



Innovative Access Systems for Safe Transfer in the Harsher Met Ocean Conditions of Round 3

In 2010, Carbon Trust's Offshore Wind Accelerator (OWA) launched an international competition to identify access system innovations in the following areas:

- *Transfer systems — transfer personnel and equipment from an in-field vessel to an offshore wind turbine*
- *Vessels — vessels for carrying personnel and equipment from port or in-field mothership to turbines*
- *Launch & recovery systems — safely launch and recover daughter craft from motherships or fixed platforms*

This presentation will explain the challenges that wind farm developers face when operating turbine arrays in harsh metocean conditions at sites that are much further offshore than is currently the case and how the most innovative access systems address health and safety concerns.

Breanne joined the OWA to follow her passion for the development of the renewable energy industry. She started her career with GE Energy in the Operations Management Leadership Program where she worked with technical and supply chain experts in the wind and hydro businesses to deliver high quality engineered products in the most efficient and safe ways possible. She later joined a small start-up wind resource assessment company where she managed the complexities of designing wind farms within the constraints of government incentive schemes and regulations. Just prior to joining the OWA, Breanne worked for a strategy consultancy, Booz & Company, as an Associate in the Operations practice.

John Reynolds

Director and Fellow, SAMI Consulting

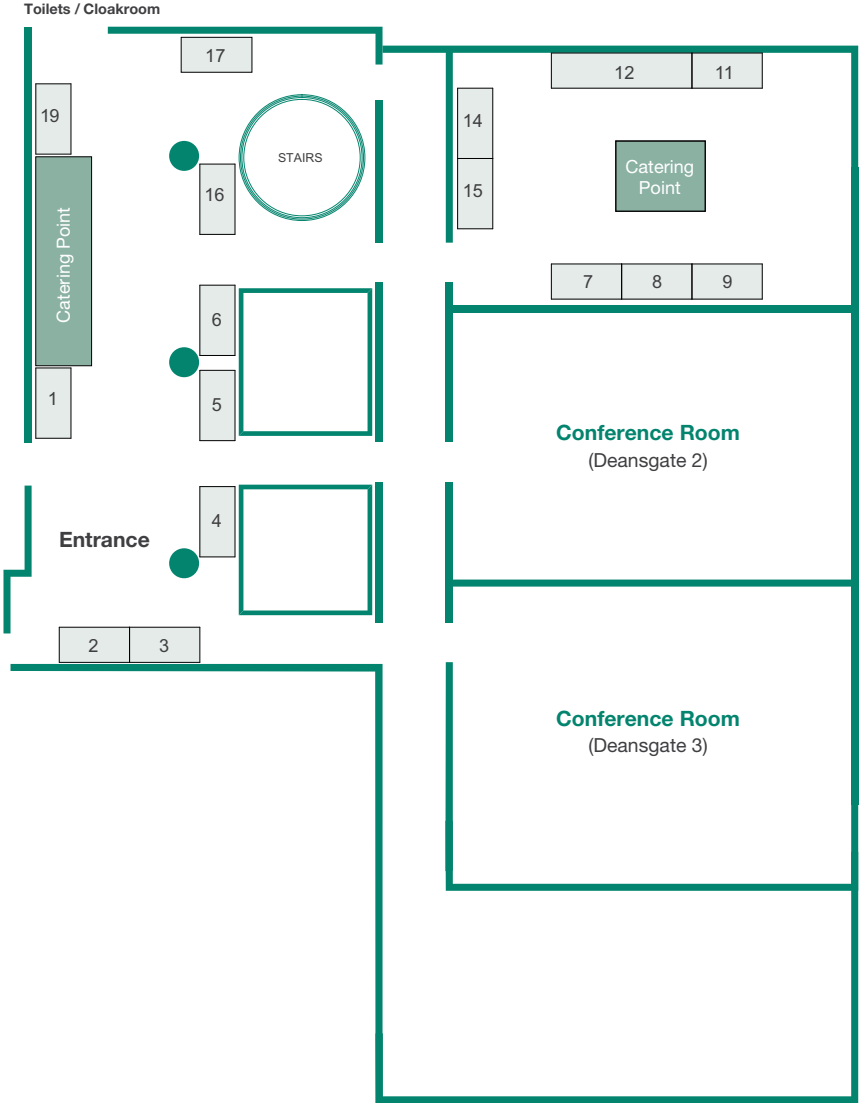
The Use of Scenarios to Evaluate Future Health and Safety Issues for Wind Energy

SAMI Consulting have been undertaking a project with the UK Health and Safety Laboratory and Technopolis Group to develop scenarios to review new and emerging risks to occupational safety and health associated with new technologies in 'green jobs' by 2020. John will present the project and the three scenarios that have been developed to explore eight key technologies, including wind energy. He will describe how wind energy develops in each scenario and the associated health and safety issues. This work is being undertaken for the European Agency for Safety and Health at Work (EU-OSHA).



SAMI Consulting is a strategic futures consultancy formed by Shell and the University of St Andrews over 20 years ago. John Reynolds is a Director and Fellow. Over the last 6 years he has led a wide range of (mainly scenario based) projects for clients in the UK, Europe and the USA. Prior to this John gained wide experience at Director/Board level in Government Departments and Agencies. This included advising two Prime Ministers on science and technology, leading the Departments of Trade and Industry's work on futures and innovation, and as a member of the Board of UK Trade and Investment.

Exhibition Floorplan



Exhibitors

By name

Company Name	Stand Number
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defibshop	2
East Coast Training Services	4
EazySafe Ltd	5
Falck Nutec Ltd	9
Honeywell Safety Products	14
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Met Office	7
Mullion Survival Technology Ltd	15
Natural Power & SeaRoc	12
Power Climber Wind	8
Renewable World	16
RenewableUK	16
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Setter & Associates Ltd	17

By stand number

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5	EazySafe Ltd
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12	Natural Power & SeaRoc
14	Honeywell Safety Products
15	Mullion Survival Technology Ltd
16	Renewable World
16	RenewableUK
17	Setter & Associates Ltd
19	Bronto Skylift


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Exhibitor Information

Bronto Skylift

19

Bronto Skylift
28 Dorsington Close, Hatton Park
Warwick, Warwickshire, CV35 7TH, UK
+44 (0) 1926 492 049
ian@brontoskylift.co.uk
www.bronto.fi

Bronto Skylift manufacture and distribute a range of truck mounted access platforms for use in the construction and maintenance of wind turbines. Heights range from 38m to 112m. We enable an increase in productivity and safety in accessing heights. Popular globally for working at height solutions.

Capital Safety Group

3

Capital Safety Group
5a Merse Road,
North Moons Moat,
Redditch, Worcestershire, B98 9HL, UK
+44 (0) 1527 548 000
www.capitalsafety.eu

Capital Safety is one of the world's leading manufacturers of fall protection, confined space and rescue equipment, with a passionate commitment to quality, innovation and safety. With 50 years of history, DBI-SALA, Protecta and UNILINE are considered mainstays of modern fall protection.

defibshop

2

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In high risk environments and remote locations, defibrillators save lives. On-site defibrillators increase the chance of survival of cardiac arrest from 6% to 78% and "require further attention for wind-related projects" according to RenewableUK's guidelines. defibshop offers you the best price and independent advice on any defibrillator you want.

EazySafe Ltd

5

EazySafe Ltd
344-354 Gray's Inn Road
London, WC1X 8PB, UK
+44 (0) 207 164 2024
juliecurrid@eazysafe.co.uk
www.eazysafe.co.uk

EazySafe are an online safety training company specialising in delivering customised training to employees and contractors. We have one of the largest libraries of health and safety content in Europe and operate in multiple languages. Our philosophy is to maximise knowledge retention using fun and engaging content.

Falck Nutec Limited

9

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www.falcknutec.co.uk

Our suite of onshore and offshore wind turbine safety courses caters for a range of stages in the development process; from onshore construction, to site surveys, installation, commissioning, operations and maintenance and the eventual safe decommissioning of offshore wind projects. We deliver RenewableUK-accredited, OPITO-approved and client-specific training.

East Coast Training Services

4

East Coast Training Services
Minerva House, Trinity Quay, Southgates Road
Great Yarmouth, Norfolk, NR30 3LL, UK
+44 (0) 1493 845 740
contact@ectrainingservices.com
www.ectrainingservices.com

East Coast Training Services offers a range of courses including a unique Vessel Transit & Transfer Training course, for wind farm personnel to gain the skills and knowledge they need to help operate safely offshore. Our parent company - Gardline - specialises in geophysical, hydrographic, environmental, oceanographic and geotechnical surveys.

Honeywell Safety Products**14**

Honeywell Safety Products
Unit 3 Elmwood, Chineham Park
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+44 (0) 1256 693 200
uksales@sperian.com
www.honeywellsafety.com

Honeywell Safety Products is committed to protecting workers exposed to risks in all types of industries and environments, including the wind energy industry. It is this commitment that drives our design and manufacture of high quality equipment to meet the wide variety of workers' safety needs.

Mullion Survival Technology Ltd**15**

Mullion Survival Technology Ltd
2 Hebden Road
Scunthorpe, North Lincolnshire, DN15 8DT, UK
+32 (0) 51 741 552
mullion@sioen.com
www.mullion.be

Mullion Survival Technology, part of the Sioen Industries Group, have over 25 years of experience supplying floatation and thermal protective safety equipment to the maritime sector. Product range consists of floatation garments, lifejackets and buoyancy aids specially designed to offer life-saving protection for Harbour Authorities, port workers, pilots, emergency services and military use.

Latchways plc**6**

Latchways plc
Hopton Park
Devizes, Wiltshire, SN10 2JP, UK
+44 (0)1380 732 700
info@latchways.com
www.latchways.com

Latchways plc is committed to providing innovative fall protection solutions within the renewable energy sector. Dependable ManSafe Self Retracting Lifelines and vertical systems are successfully operating throughout the world, both on-and offshore, providing safe working environments for users who construct, operate and maintain wind turbines and associated structures.

Natural Power & SeaRoc**12**

Natural Power & SeaRoc
The Green House, Forrest Estate
Dalry, Castle Douglas, DG7 3XS, UK
+44 (0) 1644 430 088
sayhello@naturalpower.com
www.naturalpower.com

Natural Power is a leading renewable energy consultancy group that progress sites onshore and offshore for clients, from proof of concept through project development, construction, asset management to re-powering or decommissioning. The Natural Power Group includes SeaRoc who provide specialist products and services exclusively to the Offshore Renewable Energy Sector.

Met Office**7**

Met Office
Fitzroy Road
Exeter, EX1 3PB, UK
+44 (0) 1392 885 680
energy@metoffice.gov.uk
www.metoffice.gov.uk

The Met Office is one of the world's leading weather and climate service providers. We offer a suite of solutions for the wind energy industry. VisualEyes™ assists health and safety operations and maintenance planning with real-time and forecast weather information for wind farm sites including alerts for extreme weather conditions.

Power Climber Wind**8**

Power Climber Wind
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Kontich, 2550, Belgium
+32 3 451 05 00
tejal.ranjan@powerclimberwind.com
www.powerclimberwind.com

Power Climber Wind helps major wind turbine OEMs, owners and service providers manage their operation and maintenance costs by providing the most reliable access equipment to improve employee safety, productivity and retention. We offer a range of solutions such as service lifts, IBEX climb assist, tower and blade access solutions globally.

Renewable World**16**

Renewable World
Community Base, 113 Queens Road
Brighton, East Sussex, BN1 3XG, UK
+44 (0) 1273 234 801
info@renewable-world.org
www.renewable-world.org

Renewable World is the chosen charity of RenewableUK and works with partners in Africa, South Asia and Central America to tackle poverty by providing affordable renewable energy solutions to light homes, schools and clinics, pump clean water and improve livelihoods.

Safety Technology Ltd**1**

Safety Technology Ltd
The Stone Barn, Lower Tynewydd
Clytha, Raglan, Monmouthshire, NP15 2BQ, UK
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www.safetytechnology.co.uk

Safety Technology is a leading supplier of safety training and equipment for work on /around wind farms. We also provide inspection, maintenance, vacuum-packing and certification of safety systems. Full training and certification is provided at our UK centres for a range of courses, including RenewableUK approved Work at Height & Rescue.

RenewableUK**16**

RenewableUK
Greencoat House, Francis Street
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+44 (0) 20 7901 3000
info@RenewableUK.com
www.RenewableUK.com

The UK's leading renewable energy trade association, specialising in wind and marine energy. RenewableUK develops these sectors by organising industry events, protecting member interests and promoting their industries to Government, business and media. Members include independent companies to large international corporations, providing a united representative voice and fantastic networking opportunities.

Setter & Associates Ltd**17**

Setter & Associates Ltd
Greenfield Business Centre, Greenfield
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Risktec Solutions Limited**11**

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Risktec Solutions Limited is one of the UK's leading independent specialist risk management consultancies. We provide a professional consulting service in: Safety Risk Assessment and Management, Business Risk Management and Advanced Risk Engineering. We have offices in Warrington, Glasgow, Edinburgh, Aberdeen and London.

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