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Free market 'better than CfD for long-term growth'

The Contracts for Difference regime may need to be scrapped to allow offshore wind to hit its future expansion targets, GOW 2021 has heard. **p2**

Vestas search on for lighter turbine components

Vestas is examining a new lightweight design for its offshore turbines, GOW 2021 has heard. **p3**

Hybrid generation key asset in net zero toolbox

Complementing large-scale offshore wind and other renewable power generation with different technologies is key to reaching net zero, R-UK GOW 2021 has heard. **p5**

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THE INTERVIEW reNEWS

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Offshore ace card in net zero mission

Offshore wind has a starring role to play as the UK strives to reach net zero, according to newly-appointed Energy Minister Greg Hands.

Making his first major address in his new role at GOW 2021, Hands said: "We are now only 32 days away from the start of COP26 where we will look to accelerate global action to tackle the climate crisis, and it is no exaggeration to say that offshore wind will be a linchpin in our efforts to reach net zero."

He told delegates he has been a long-time supporter of the sector, pushing the parameters of the Contracts for Difference process in favour of the industry when he was Chief Secretary to the Treasury in 2015.

In his previous role as Trade Minister, Hands said he had "always pushed the sector's export capability whether in Taiwan, Korea and Vietnam or elsewhere around the world".

The minister also highlighted the progress being made by the UK government and industry on the challenges thrown up



LONG-TIME SUPPORTER:
Energy Minister Greg Hands speaking at GOW 2021

Photo: RenewableUK

by aviation, which will be the subject of new guidance. "This will inform projects in this year's CfD round," he said.

Hands added he recognises the need to put the right infrastructure in place to support the scaling up of offshore wind. However, it is important to get local communities on board so they can see the benefits development can bring. "Long-term, we are moving towards a more strategic approach," he explained. To start the process, the government launched a consultation this week on how to minimise the impact of the roll-out of offshore wind

on local communities and the environment. Responses will be used to inform future policies for both floating and fixed-bottom projects.

Opening GOW 2021, meanwhile, RenewableUK chief executive Dan McGrail said the offshore wind industry has a critical role to play in the energy transition.

He told delegates on Day 1 of the London event: "We have a vital job to do in delivering the green recovery. Offshore wind can be the backbone of a clean and effective energy system."

McGrail said the industry and government have been in discussions about how to boost generation in the country, particularly focusing on the need to do more in future CfD auctions.

"In offshore wind we know how to scale up. It is in our DNA," he said. "We have got that support and ambition from government. Now it is up to us to deliver."

However, in order to meet targets in the next 10 years, investment needs to be supported and a "next-generation grid" has to be delivered, he added.

THURSDAY'S HIGHLIGHTS

COP26 fix

Ex-BEIS Secretary Alok Sharma, who is now COP26 President, will outline the key priorities for the coming global climate summit. Climate action champion Nigel Topping will set out why the race to zero campaign is relevant to the offshore wind industry.

09:15-09:45, Platinum 1

Far East floaters

Hear floating offshore wind market updates for Taiwan and the Philippines as well as further insight on how the technology is scaling up in Asia-Pacific.

11:15-12:30, Platinum 3

Banking on offshore

This session will launch the World Bank Group's flagship offshore wind report, which aims to help government officials in emerging markets to answer the question: 'What do we need to do to successfully develop offshore wind?'

12:45-13:15, Platinum 3

Just Transition

Session speakers including Aker Solutions EVP Renewables Stephen Bull discuss how to ensure local communities are not left behind in the transition to a low-carbon economy.

13:30-14:30, Platinum 1

Hydrogen fliers

Robert Duncalf, Orsted head of UK and US strategic projects, hydrogen, and other experts examine the economics of green hydrogen and how it can become the fuel choice of the future.

15:00-16:00, Platinum 2

Free market 'better than CfD for long-term growth'

The Contracts for Difference regime may need to be scrapped to allow offshore wind to hit its future expansion targets, GOW 2021 has heard.

Siemens Gamesa UK managing director Clark MacFarlane told delegates the current auction system should be binned and in future offshore wind growth should be left to the market.

During a panel discussion he said: "If you can get an affordable price, we should let it build and let the market run. I don't think this competitive (CfD) process is good for long-term growth."

On the same panel, Duncan Clark, head of Orsted's UK operations, agreed that the current system might not be fit for purpose as the industry plans to scale up to 40GW.

He said: "It is difficult to see how the CfD system as it is

built today would still work." However, Sven Utermohlen, head of offshore wind at RWE, said there are always going to be problems with auction mechanisms but wholesale change could lead to delays. "That is the last thing we need if we are to reach our goals."

Local content balancing act

A balance is required between using local content and creating a long-term competitive supply chain, delegates were told.

Morten Buchgreitz of Vestas said local content parameters are becoming increasing specific and, in some cases, prohibitive. "It is a tricky balance and it does take a lot of courage to negotiate," he added.

RWE's Sven Utermohlen said the biggest challenge in



PANEL PLAYERS: (left to right) broadcaster Emma Howard, Siemens Gamesa UK's Clark MacFarlane, Orsted UK head Duncan Clark, RWE Renewables offshore chief Sven Utermohlen, SSE Renewables boss Jim Smith and Vestas global SVP Morten Buchgreitz

PHOTO: RENEWS

the local content sphere is scaling up the workforce. "We had some new equipment that needed delivering and for us the skilled workforce was not there," he reported.

Speaking about the UK, SSE Renewables boss Jim Smith said there will not be as much local content as the government may wish.

However, he added that if

major companies cannot find enough justification to build the supply chain in the UK, "they won't find it anywhere".

Siemens Gamesa UK's Clark MacFarlane said certainty about what projects are coming up is key to building local content. "I think if these certainties materialise, then confidence will grow and investment will come."

Air defence breakthrough

A government-industry partnership has identified new technology that could allow future offshore wind projects to exist alongside air defence radar systems.

The Air Defence and Offshore Wind Windfarm Mitigation Taskforce said new surveillance systems can distinguish between turbines and aircraft with greater precision than current kit.

The details were outlined in a first iteration of the group's strategy and implantation plan, which was published at GOW 2021 in London on Day 1.

Danielle Lane, co-chair of taskforce member the Offshore Wind Industry Council, said the publication is a "major step" for the group.

"We have made great progress so far in our joint aim of ensuring that military radar systems and offshore wind farms can co-exist successfully."

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Vestas search on for lighter components

Vestas is examining a new lightweight design for its offshore turbines, GOW 2021 has heard.

Global senior vice president Morten Buchgreitz told delegates the aim is to help accommodate transport and storage restrictions during construction.

The Danish manufacturer recently launched its V236-15MW model, which Buchgreitz said is designed to be enlarged going forward as the company continues to push the limits of turbine size and capacity.

“Having a larger turbine requires larger components and larger components also require more space both for production and for transportation, so we need to think how we innovate the

logistics around the turbines.” Vestas is looking into different ways of designing the interior of its hardware using lighter-weight materials, he explained.

Meanwhile, when asked about the role of increased diversity within the offshore wind sector, Buchgreitz agreed that as an industry greater efforts are needed to make sure more people feel included.

“We are promoting female leaders internally... but there’s not one silver bullet that will do the trick. It’s a lot of different things that we need to do.

“Obviously we haven’t been doing enough and we have to continue to up the game because we need a change to take place.”

IN BRIEF

■ Navantia and Eolos Floating Lidar Solutions are forming a strategic alliance to provide offshore wind farm inspection, diagnosis and monitoring services using unmanned marine vehicles combined with advanced met data acquisition systems.

■ Five more UK companies have completed ORE Catapult’s Fit 4 Offshore Renewables (F4OR) programme. Achieving ‘granted’ status are KRG Specialist Engineering Services from the Scottish pilot programme along with EnerMech, Proeon Systems, Stowen Clean Energy and TECOSIM Simulation, all part of the New Anglia cohort.

■ Investment commitments totalling more than £900m have been made so far this year to build new factories to serve the UK offshore wind sector, the highest tally since the industry emerged in 2000, according to analysis published by R-UK at GOW 2021.

■ Global offshore services company Sulmara is to use two iXblue DriX unmanned surface vessels provided by Unique Group.

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Exports road map to guide Scottish sector

The Scottish Offshore Wind Energy Council is to release a new export guide to help local supply chain companies crack the global market.

The report, *Offshore Wind International Export Markets — a guide for Scottish Exporters*, aims to appraise current and prospective exporters of the main opportunities between now and 2030 with markets scored against a number of relevant issues to give an attractiveness rating.

The assessment, put together by Scotia Supply Chain, will be published on Day 2 of GOW 2021.

SOWEC industry co-chair Brian McFarlane said: “With rapid growth in offshore wind here in Scotland, the time has never been better for prospective Scottish exporters to use experience gained at home as a springboard to access the global offshore wind market.”

Alongside the export guide, the council will also release

reports into what steps can be taken in Scotland and the UK to support local supply chain companies win work from a next generation of Scottish offshore wind projects.

Consultancy BVG Associates has provided SOWEC with analysis and recommendations to inform industry co-ordination on options of shared procurement portals, pre-qualification criteria and standardised terms and conditions.

■ The global offshore wind project pipeline now stands at 413GW, according to research by RenewableUK’s Project Intelligence team. This includes projects that are fully operational, under construction, consented or being planned, R-UK said.

The UK retains top spot at 10.4GW but China is catching up with 9.4GW and Germany stands at 7.7GW.



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Hybrid generation will be a key asset in net zero toolbox

Complementing large-scale offshore wind and other renewable power generation with different technologies is key to reaching net zero, R-UK GOW 2021 has heard.

Decarbonising energy systems, particularly by using green hydrogen, took centre stage at the event in London on Day 1.

Andy Goodwin, ScottishPower Renewables head of economics and markets, hydrogen, told delegates that electrification will only go so

far. Other technologies and different solutions need to be considered.

“That hybrid approach, using different technologies and different solutions, is what will help us get over the line on the journey to net zero and we’re very proud to be leading the way,” Goodwin told reNEWS ahead of the conference.

SPR is sponsoring the Energy Transition Zone to focus on the issue.

“We are already working

on various projects based around the use of green hydrogen as a zero-emission fuel, with the hydrogen being produced using renewable energy that could come from our wind farms and energy parks or be developed on-site specifically for that purpose,” said Goodwin.

“These are really exciting innovations that will give us more tools in the box, enabling the country to decarbonise at a faster rate and in a fairer way.”

Reducing emissions in offshore wind construction will be the focus of Waves Group consultant marine engineer Kenny English’s discussion in the Energy Transition Zone.

He will explore the risks and hazards associated with the use of alternative fuels such as liquefied natural gas, methanol, biodiesel, hydrogen and ammonia during the



LEADING THE WAY: SPR’s Andy Goodwin

Photo: SPR

session on Day 2 at 10:30. English will also look at the latest IMO regulations and the Energy Efficiency Existing Ship Index, which addresses the technical efficiency of vessels and how the rules will be applied to operational assets.

The Carbon Intensity Indicator rating scheme and Ships Energy Efficiency Management Plan will also be examined during the presentation.

IN BRIEF

■ The need to build safety resilience and challenge received wisdom in the industry came under the spotlight on Day 1. Global Wind Organisation chief executive Jakob Holst explored the implications of a new White Paper on the need for domain-specific safety training during the *Ensuring a safe and renewable future: Why we need to commit to the right training* at 14:10. He was joined by broadcaster Matthew Syed to dissect the White Paper’s findings so the industry can use training to minimise known risks and hazards facing technicians.

■ Renewable Parts is outlining more details about its recently-opened Innovation Centre in Scotland at GOW 2021. The centre at Lochgilphead has been designed to advance the availability of circular economy parts solutions within the wind industry. Chief executive James Barry will be speaking in the Energy Transition Zone on Day 2 at 13:30.

■ BayWa r.e. managing director of UK projects Gordon MacDougall has joined the board of GOW 2021 host RenewableUK.

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Orsted supply chain tasters

Orsted is unveiling the latest supply chain opportunities for its UK offshore wind projects this week in London.

The Danish developer is hosting a series of sessions where delegates can discover more about its developments at Stand 52.

Lead procurement manager Pete Clusky is giving an

overview of Orsted and its UK projects on both days from 11:30, alongside UK supply chain development manager Marc Adams.

Adams will lead an opportunity session for secondary foundation structures on Day 2 from 13:00. Each session will be limited to 16 delegates.

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Worker training on critical list for sector

Global offshore wind industry needs to attract millions of skilled employees in just a few short years, writes **Heidi Vella**

The offshore wind industry faces a critical worker shortage with the necessary skills not widely available, R-UK GOW 2021 will hear on Day 2.

While the popularity of a career in wind power has grown, a lack of necessary knowledge and experience, and stiff competition within the sector, has seen the industry “recycling the same people” when it needs to invest in developing capability,



according to Elaine Harley (left), HR business partner at SSE.

Analysis by the Global Wind Energy Council published earlier this year found 3.3 million new wind energy jobs could be created globally over the next five years.

In Europe, sector jobs could rise to 450,000 by 2030, up 50% from today. However, competition for skilled people

is tightening as the US and Asia also set targets.

Securing young talent has become a priority but often the high level of engineering and digital skills needed are not emerging from universities.

“The drive into STEM subjects is not at the level we need it to be. Most of industry is trying to address this but we’re a bit behind the curve,” said Harley, who will speak during *Clean energy jobs & skills: The future faces of our industry* at 15:00 on Day 2 at the conference.

Industry body WindEurope launched an educational hub recently to inspire young people to join the sector, offering basic explanations about wind energy, teaching resources and hands-on activities.

BayWa r.e. UK managing director Gordon MacDougall told reNEWS more certainty around project timelines and future licensing rounds would give companies an incentive to invest more. “Training and

recruitment require long-term planning. We need certainty of projects happening, then we can work through the supply chains and with companies to provide the resources more proactively,” he said.

The Floating Energy Alliance consortium of BayWa r.e., Belgian offshore developer Elicio and floating wind technology specialist BW Ideol said this month its proposed project being bid into the ScotWind round could create 3900 local jobs if successful.

MacDougall said BayWa r.e. is actively looking at how the supply chain in Scotland could deliver and the group has said it is committed to manufacturing concrete foundations at a local port.

Companies are starting to deploy new tactics to recruit and retain workers. Post-pandemic, SSE is hiring from across the country, allowing staff to work from home, and looking to recruit from other sectors including

high carbon industries and the military. SSE is also running employee retention schemes to encourage women back from maternity leave.

BayWa r.e. is taking a similar approach, offering paid parental leave and other benefits. “We are trying to embed these benefits into our culture with employee-led forums across the entire company to attract and retain people,” said MacDougall.

However, governments should do more to support training programmes and raise awareness of opportunities, said K2 Management regional director of EMEA Gary Bills.

“If nothing is done and there’s not a clear plan for everybody, there’s a danger the skills gap will slow down the growth potential of the sector. There needs to be an active role from government to transition people over the next two or three years from other sectors.” ■

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THE INTERVIEW
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Policy environment must evolve to match the pace and scale of projects needed to deliver on net zero, says SSE Renewables bid director **Michelle Gallagher** (left)

Q What is your key message as the industry gathers for R-UK GOW this year?

A Offshore wind is going to provide the backbone of future energy systems. However, a key challenge is how to scale up at pace, which needs industry, policymakers and other stakeholders to collaborate even more intensively than ever. SSE Renewables has the track record and expertise to help make that happen via our 7GW pipeline in the UK and Ireland, or internationally, in markets like Spain, Portugal and Poland.

Q Is the prevailing policy environment there to support delivery of the scale and pace of projects needed to hit 2030 targets and beyond?

A The policy environment needs to evolve and accelerate to match the pace and scale of projects needed to deliver on net zero. That will require ensuring the allocation of seabed minimises costs and supports growth, as well as developing a consenting and licensing regime that is predictable and has net zero at its heart. Market design is also important and while we can expect schemes like the CfD to evolve, policymakers need to ensure that provision of bulk low carbon power is sufficiently valued. For example, a move to annual CfD auctions

would de-risk project programmes and provide confidence to the sector in the net zero vision. Grid charging also needs to be updated to reflect where the best renewable resources are located.

Q How can developers support the myriad new UK manufacturers. Will developers like SSE commit to placing contracts for AR4 projects and beyond?

A SSE Renewables has shown via its projects it is possible to provide the confidence and ultimately contracts to suppliers that can increase UK manufacturing in offshore wind. For example, Dogger Bank is the anchor project that enabled GE Renewable Energy via LM Power to invest in a new blade factory in Teesside. Developers can't do it by themselves due to the inherent uncertainty in winning CfDs but, positively, the UK government has shown its willingness to provide the support needed to attract investment into new facilities.

Q What role must industry play to deliver a Just Transition in which the benefits of renewables are shared fairly?

A Last year SSE was the first company to publish a Just Transition Plan, which outlined how it

will approach the social implications of delivering net zero; from jobs and training, to working with communities and ensuring no one is left behind. This commitment to creating good green jobs as well as looking after people in high-carbon jobs is why we, along with our ScotWind consortium partners Marubeni and CIP, have set specific goals in our ScotWind bids to create a £100m supply chain fund that will directly support those Scottish oil and gas businesses to enter the offshore wind sector by investing in new equipment, plant and machinery, personnel or training resources.

Q How quickly would you like to see another offshore wind leasing run by the Crown Estate and what changes to the process should be introduced?

A The Crown Estate and Crown Estate Scotland should provide much more forward visibility of future leasing round timings and capacities available. Following completion of the current rounds they should set out timing for a programme of future rounds and minimise delay to these timelines. They also need to keep an eye on keeping down upfront costs of participation, streamlining processes for consistency, and prioritise longer term social and economic benefit. ■



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Day 2 official highlights

Selected Conference Stream A: Platinum 1, in-person and live stream, Conference Passholders

09:15–09:45 COP26 & Offshore Wind

Chair: Daniel McGrail, chief executive RenewableUK; Roisin Quinn, director of customer connections National Grid; RT Hon Alok Sharma MP, COP26 President UK Government; Nigel Topping, high level champion for climate action COP26.

10:00–11:00 COP26 and accelerating the global energy transition

Chair: Rebecca Williams, head of policy & regulation RenewableUK, director of COP26 GWEC; Liz Burdock, CEO Business Network for Offshore Wind; Julia King, Baroness Brown of Cambridge; Rachel McEwen, group head of sustainability SSE; Gauri Singh, deputy director-general International Renewable Energy Agency; Louise Kingham OBE, SVP Europe & head of country UK BP

11:30–12:30 Accelerating digitalisation in offshore wind

Chair: Evgenia Golysheva, vp strategy and operations ONYX InSight; Michael Bjerrum, CCO Shoreline; Keir Harman, director DNV; Beccie Drake, offshore wind digital lead Arup; Oliver Abell, digital ventures manager SSE Renewables

Selected Conference Stream B: Platinum 2, in-person and live stream, Conference Passholders

13:30–14:30 Driving decarbonisation in maritime and offshore wind

Chair: Stuart Barnes, regional partnership manager ORE Catapult; Paulina Hobbs, regional CEO service North Europe and Middle East, Siemens Gamesa Renewable Energy; Allan Ralston, managing director Harland & Wolff; Mark Couwenberg, Damen Shipyards; Rob Osborne, support & innovation engineer Bibby Marine.

14:45–15:00 Technology lightning round: Green Hydrogen

Chair: Barnaby Wharton, director of future electricity systems RenewableUK; Joergen Scheel, director PtX offshore program Siemens Gamesa Renewable Energy.

Selected Global Markets Platinum 3, in-person and live stream, Conference Passholders

11:15 – 12:30 Floating wind expansion in Asia-Pacific markets

Chair: Katherine Phillips, managing director OWC; Mark Leybourne, senior energy specialist World Bank; Beate Myking, SVP for renewable solutions Equinor; Emine Topal, director Green Giraffe; Marco Wiedijk, VP business development Principle Power

Selected Energy Transition Zone Exhibition Hall, on-site and on-demand, All Passholders

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ExCeL London requires all attendees to show proof of double vaccination, Covid-19 antibodies or negative lateral flow test. RU-K further recommends, before travelling, you take a lateral flow test and do not travel if you are feeling unwell or have any symptoms. The venue recommends attendees wear facemasks and you are encouraged to observe social distancing.

[View the safety guidance here](#)

12:15 - 12:25 Transitioning a global workforce

Fiona Ross, HR business partner ScottishPower Renewables

Selected Innovation Theatre, Exhibition Hall, on-site and on-demand, All Passholders

12:15 – 12:35 Floating wind: The race is on

Daniel McGrail, chief executive RenewableUK; Mark Dooley, global head of green investment group Macquarie Capital

Day 2 side events

COP26 Breakfast

07:30-9:00, Platinum 3, on-site only Organised by GWEC by invitation

Visit the SV. BARBA

09:30-17:00, Dockside, Arctic Ocean Conversation Platform

Ørsted supply chain sessions

09:30-17:00, Ørsted stand #52

Offshore Wind Industry Council and Ministry of Defence Briefings and Workshops with Stakeholders

10:15-17:30, South Gallery Room 16 By invitation

Book a demo of RenewableUK's new Project Intelligence dashboards

09:30-17:00, RenewableUK stand #214



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- **RenewableNI Smart Energy** | Conference | November | Belfast
- **Cables** | Conference & Exhibition | November
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• Event details are subject to change.