TRITON KNOLL

December 2020

TRITON KNOLL OFFSHORE WIND FARM COMMUNITY NEWSLETTER

When we began offshore construction in January 2020, little did we know where this year would take us.

Covid-19 has added a huge complexity to the already highly specialised engineering task of building Triton Knoll Offshore Wind Farm, a nationally important infrastructure project, which, once fully operational will be capable of powering over 800,000 UK homes with sustainable, renewable energy.

The fact that we have progressed so far and so well is in no small part down to the support and understanding of you, our neighbours and stakeholders, and to the dedication and flexibility of our project teams and supply chain partners. Between us, we have ensured that the delivery of this important clean energy project has remained on track, and able to play its part in protecting the future energy needs of critical public and private sector industries.

With that in mind, I'd like to take this opportunity to thank you all for your continued support.

As you will see from this information-packed community newsletter, and if you have been following our progress on the website and social media channels, we have made significant progress both offshore and onshore.

We are delighted to have completed the commissioning of our onshore electrical infrastructure, from the onshore substation, 57km long onshore cable route and the landfall where onshore and offshore electrical systems meet. The offshore export cables that carry the power from the turbines to the shore, the two state-of-the-art offshore substations, foundations for all 90 of the 9.5MW wind turbines and the cables that connect each of them to the substation have all been successfully installed offshore.

Local UK contractor Tolent has finished building our multi-million pound operations and maintenance base in Grimsby. We have enabled the transformation of Able Seaton Port in Hartlepool into a facility ready to handle the project's wind turbines, and November saw the arrival of the first turbine blades, manufactured in the Isle of Wight, plus additional tower components, to the port ready for installation in early 2021.

Triton Knoll supports the UK's goal of becoming carbon neutral by 2030, providing homes and businesses across the country, with energy from renewable sources. Offshore wind is the backbone of that policy and as such represents a long-term prospect for future careers. We have therefore worked with some of the region's education experts to produce a highly informative package of careers information for teachers and students, aimed at bringing the industry to life.

Please take a look at the materials on our website and feel free to share them with your family and friends.

I hope you enjoy our latest newsletter and I look forward to contacting you again in the new year, when we will be focused on delivering the final phase of the wind farm, commissioning the turbines and delivering clean, green electricity to over 800,000 households in the UK.



Julian Garnsey, Project Director













Top left to right -

All round winners: Bicker Bowlers get cash injection.

Celebrating: Ruby Hunt Trust is step closer to ownership goal. Perfect pavilion: New outlook for

Swineshead bowlers.

Bottom left to right -Smooth operators: Stickney car park made safe. Light work: 'Green' illumination for children's centre.

TRITON KNOLLCOMMUNITY FUND

18 key community projects have been successful in sharing nearly £164,000 in funding from the final round of awards from the Triton Knoll Community Fund.

CONSTRUCTION FUND

The Triton Knoll Offshore Wind Farm Community Fund officially launched on 20 August 2018 to deliver important funding into communities closest to the project's onshore construction works and infrastructure. The £500,000 'Construction Fund' has been available for applications throughout the onshore construction period with four separate funding rounds undertaken. The fund has been administered by the Lincolnshire Community Foundation through an open and transparent process with final funding decisions made by a panel of local volunteers to ensure decisions were made by people who really understand their local area. The fourth and final funding round closed for applications back in May 2020 and awards were confirmed over the Summer.

Demand for funding has been high and we are pleased that 57 local projects have been supported over the lifecycle of the fund. Funding has been provided to many of the communities along the cable route. Awards have also been diverse in nature with grants being awarded for traffic calming systems, play equipment and musical instruments amongst lots of other things important to local people. Eleven local village halls have received funding and seven sports clubs have improved their facilities thanks to grants provided by the Triton Knoll Community Fund. We have always aimed to be as inclusive and flexible as possible to ensure that a wide variety of groups and projects were eligible to apply for funding.

The Construction Fund has now closed and all funding has now been awarded. A list of all successful applicants across the separate funding rounds can be found on the Triton Knoll website along with some success stories detailing how the funding provided has helped local communities.

The list of projects successful in the final round of applications is as follows:

| Total £163,852.92 | | |
|-------------------|---|------------|
| 0 | Swineshead Silver Band | £4,372.14 |
| 0 | Bicker Bowls Club | £5,100 |
| 0 | Donington Parish Council | £26,160 |
| 0 | Hogsthorpe Village Hall | £5,047.39 |
| 0 | Swineshead Bowling Club | £6,210.00 |
| 0 | Burgh Le Marsh Town Council | £10,000 |
| 0 | Swineshead Parish Council | £10,000 |
| 0 | Heckington Singers | £2,452.74 |
| 0 | Eastville, Midville, New Leake Playing Field Committee | £3,374.40 |
| 0 | Hale Magna Village Hall | £4,963.20 |
| 0 | Ruby Hunt Trust | £30,000 |
| 0 | Burgh Bowls Club | £6,796.00 |
| 0 | Huttoft Village Hall | £3,000.00 |
| 0 | St Swithuns PCC | £10,000.00 |
| 0 | Amber Hill Parish Council | £1,316.16 |
| 0 | Bicker Parish Council | £23,802.48 |
| 0 | Mumby Parish Council | £6,626.98 |
| 0 | Firsby Group Parish Council | £4,631.43 |

We are delighted to have been able to fund important local projects and leave a positive lasting legacy in communities that we have worked with during onshore construction.

ANNUAL FUND

Planning is already underway to launch the 'Annual Fund' in Spring 2021. The Annual Fund will deliver £40,000 of funding annually into areas within 5km of the Onshore Substation and 3km of the Landfall. The Lincolnshire Community Foundation will administer the fund and will establish decision making panels of local volunteers so that this is a truly community led fund. The funding will be available for the operational lifetime of the offshore wind farm (expected to be up to 25 years). Further details will be available in due course.

To find out more about the Triton Knoll Community Fund including eligibility criteria and how the fund is structured, please visit our website https://www.tritonknoll.co.uk/ communities/community-investment-fund/ or contact the team using the details at the end of this newsletter.

PRIMARY SCHOOL STEM FUND

At Triton Knoll Offshore Wind Farm Limited, we are passionate about supporting the next generation of youngsters in aspiring to work in the low carbon sectors. STEM (Science, Technology, Engineering and Maths) subjects are the foundation stones for the majority of renewable energy industry careers. We want to support efforts to inspire children to study and enjoy STEM subjects at school.

As an extension to the Triton Knoll Offshore Wind Farm Community Fund, we are delighted to have been able to offer five local primary schools a one-off grant of £2,400 to invest in making STEM engaging, exciting and fun for their students. We wanted to support the schools closest to the project's onshore electrical system installation works and the schools selected to be offered funding were chosen due to their proximity to our main construction works.

Literature suggests that involving children in one-off enrichment activities is transitional and not as effective as engaging with them in high quality, longer-term STEM learning. Hopefully through investing in STEM via this grant, teachers can make an even bigger difference to the aspirations of the children they teach than what is possible today.

The following local primary schools were offered funding:

- Frithville Primary School
- Gipsey Bridge Academy
- Sibsey Primary School
- New Leake Primary School
- Stickney Church of England Primary School

We look forward to seeing the fun and innovative ways that the schools use the funding to inspire the next generation in STEM subjects. We hope it might even encourage them to consider renewables as a potential future career.



Five primary schools have been offered grants to help make STEM subjects fun and engaging.



TEACHERS AND STUDENTS DISCOVER CAREERS IN OFFSHORE WIND!

New movies and teaching materials spotlight jobs and careers in the offshore sector



Careers and pathways into the UK's most dynamic and growing renewables industry are set out in a series of new films and materials published online by Triton Knoll.

The free-to-use teaching and learning kit aims to support students and teachers, and highlights the wide range of jobs in the industry, the subjects, skills and career paths students can follow to get there.

Movie case studies from colleagues across Triton Knoll and RWE's diverse offshore workforce prove that it's not just engineers who make the industry tick; geologists, graphic designers, maritime professionals, archaeologists, biologists, and manufacturing 'techies' all play a part in delivering offshore wind farms around the globe.

Julian Garnsey, RWE project director for Triton Knoll said: "We work in one of the most exciting and dynamic industries in the world, able to make a real difference in the fight against climate change and helping protect our planet by what we do, every day.

"It's a fast growing industry and a great long-term career choice; we hope that through these films and resources, we can provide a glimpse into our world and inspire students to learn more about what we do, how to get involved and to join us on our journey towards carbon neutrality."

The materials can be seen in isolation or as part of a supported lesson plan in schools. There's also a teachers' pack and helpful materials designed to help guide students' study pathways towards their future goals.





Perfect for use in lessons!

At the heart of the package of careers guides, is a 20 minute film which discusses the need for climate change action, how offshore wind farms work, and focuses on the people and jobs that make it all happen. It's perfect for use in the classroom as part of a planned session on renewable energy and careers. The Engineering UTC Lincolnshire helped create the lesson plans, therefore they are truly tailored for teaching.

View the main careers film: https://www.tritonknoll.co.uk/careers-education-video/

A series of short and inspiring case studies show real people working in the renewables industry. The three to five-minute-long films include the cyclist who shapes wind farms; a free diver who coordinates teams and components; the geography graduate who protects wildlife on a windfarm; to the languages specialist who travels the world organising vessels and crews.

View the case studies: https://www.tritonknoll.co.uk/careers-case-studies/

Take a look at what's on offer, visit the website: https://www.tritonknoll.co.uk/careers-and-education/

If you are interested in using our materials in your school and would like support, please contact the team by using the contact details at the back of this newsletter.





OFFSHORE 2020 - AT LEAST IT WAS A GOOD YEAR FOR SOMETHING!

At the heart of building the Triton Knoll Offshore Wind Farm is the ability to generate clean electricity.

The electricity produced by the Triton Knoll Offshore Wind Farm will meet the needs of over 800,000 typical UK homes: That is equal to all the homes in Lincoln, Leeds, Nottingham and Sheffield, and will help prevent the release of millions of tonnes of CO^2 into the planet's atmosphere.

During 2020, we made huge strides towards achieving that despite the impacts of the Covid-19 pandemic, and all thanks to the dedication and flexibility of everyone working on the project. We now stand well placed, ready to install wind turbines from early January 2021.

Throughout this year, Triton Knoll has responded to the Government's call for energy companies to continue building critical new electricity infrastructure for the future. Our priority has always been to ensure the safety of everyone working on the project and members of the public alike. Therefore we have imposed strict health and safety measures and procedures across the entire Project, including the use of rigorous testing, protective equipment and self-isolation, while only permitting essential works, to ensure construction can continue on track.

Here's how we progressed offshore in 2020



JANUARY

The project began offshore construction as planned

In January 2020, offshore works commenced to install 90 wind turbine foundations, two state-of-the-art offshore substation platforms and foundations, and hundreds of kilometres of subsea cables creating vital infrastructure to transmit energy from the turbines back to shore, and ultimately into UK homes and businesses.

The first wind turbine foundation was installed later that same month, a huge c.600 tonne, 54 metre long steel monopile and bright yellow transition piece, which will form the base onto which a wind turbine will be constructed.

In all, 92 foundations have been installed at Triton Knoll, including two specialist structures built at Wallsend, UK to support the high-tech Offshore Substation Platforms (OSPs).

Above left -The first full foundation was safely and successfully installed at Triton Knoll, by the Seaway Strashnov on 17 January 2020. Above right - Foundations stored at port waiting to be sailed out and installed.



APRIL

Installation of the Offshore Substation Platforms

In April 2020, the project reached its first major milestone with the successful installation of the two state-of-the-art 1,200 tonne offshore substation platforms (OSPs).

The OSPs are central to the offshore electrical system and were designed by our lead contractor Siemens Energy Limited, with British firms JGC in Scotland, Smulders at Wallsend, and Granada Material Handling in Manchester involved in the design and construction of key components.

Main image - Offshore Substation Platform West fully installed 12 April 2020, first of two OSPs at Triton Knoll. Above - OSP East preparing for transit to site.



JUNE

Operations and Maintenance Base opens in Grimsby

While not strictly offshore, June 2020 saw contractor Tolent finish building the project's multi-million pound Operations and Maintenance (O&M) base in Grimsby. This will be critical to the long-term delivery of renewable energy from the offshore wind farm and, once fully fitted out, will become the regional home for our team of skilled technicians and support staff, responsible for maintaining the offshore wind farm for the next 25 years. Over 20 new colleagues have since joined the team, many from the local area.

Above - The new Triton Knoll Operations and Maintenance base at Grimsby



AUGUST Installation of Export Cable Circuits

August 2020 was an important month for the offshore electrical system with the installation of two 50km export cable circuits. Once energised, these will transmit the high voltage electricity generated by the wind farm back to the shore and ultimately into UK homes and businesses. Both circuits of NKT manufactured subsea export cable were completed in August, while Boskalis, part of the VBNK partnership with NKT, laid and plough-buried both lengths of cable using the vessel NDurance.

Above - Cable laying vessel NDurance off the coast of Anderby during export cable installation.



LATE AUGUST Installation of Final Foundation

Later on in August the last of the 90 monopile foundations and transition pieces were installed, all within the planned summer delivery window. Each foundation is specially designed and manufactured using state-of-the-art methods to be significantly lighter than similar structures already deployed. The installation contract was awarded to Seaway 7, and the foundations were installed by Heavy Lift Vessels Seaway Strashnov and DEME Innovation.

Top - The final foundation is lifted into position at Triton Knoll. Above - Sunset at Triton Knoll; Siem Day in background supporting cable installation.

OCTOBER

Offshore Cable Installation

In October, offshore cable installation, which began in early summer, was completed and marked a significant moment for the project, completing all of the subsea cabling element of the offshore electrical system. All 90 wind turbines are connected to the offshore substations by a network of sub-sea array cables which, in total, represent a combined length of over 100km. Installation was carried out by NKT and Boskalis.





NOVEMBER Preparations for 2021

As the year draws to an end, activity has begun to highlight the next steps in the project's progress, with preparations for first power generation in early 2021.

The project's first wind turbine components manufactured in the Isle of Wight and Fawley by our lead contractor MHI Vestas, arrived at our newly established construction port in Seaton, Hartlepool. Investment from Triton Knoll has enabled the port to transform into a facility capable of handling offshore wind turbines for the first time in its history, and represents a new future for the port, based around renewable energy.

Each of the giant 80m long blades form part of the project's v164-9.5 MW wind turbine generators which are among the most powerful in the world, and capable of powering an entire house for 29 hours with just a single rotation of the blades.

Top - The construction port at Seaton, Hartlepool. Above - The first turbine blades arriving at Seaton Port.

It's been a challenging but overall successful year for the project offshore, and the great strides achieved mean we are in a good position to begin turbine installation in early 2021, and generate our first clean power within the first couple of months of the year.

A recent aerial image of the Triton Knoll Onshore Substation.

ONSHORE SUBSTATION

Since our last newsletter, working with our substations contractor, Siemens Energy, we have made significant progress in the construction of the new Triton Knoll Onshore Substation located near Bicker Fen. The main construction works at the substation are complete and commissioning works are well advanced. During October 2020, power was back fed from the National Grid Bicker Fen Substation and utilised to energise the electrical equipment for the first time to allow final checks to be completed.

In total, 600,000 man hours have been worked during the construction of the substation without a lost time incident, which is a statistic the whole workforce is proud of. Health and Safety has always been of the upmost importance during construction and the Covid-19 pandemic and additional restrictions have provided us with plenty of challenges. We are pleased that we have been able to continue with construction to our strict timescales whilst keeping both our workforce, and the general public safe at all times. We have implemented a number of additional measures to ensure the safety of our workforce, and at the time of writing have been very successful in this regard.

The 400kV cable route (the cable between the Triton Knoll Substation and National Grid Substation) is now complete and the land has been reinstated. Furthermore we have successfully removed the temporary access track which ran alongside the cable route and we are in final preparations to hand this land back to landowners this Autumn.

We have been in regular discussion with the Viking Link project team to identify opportunities to utilise and recycle materials used to construct the Triton Knoll Substation. As a result of these discussions, we are pleased to confirm that the stone used to construct temporary storage areas and roads (including the 400kV access track) by Triton Knoll will be utilised by Viking Link in 2021. Rather than this stone being sent back to the quarry or landfill, the stone removed from our site has been stored within the Bicker Fen Substation ready for Viking Link to begin the construction of their adjacent haul road in February 2021. There are significant social and environmental benefits for the recycling of the stone including the reduction in HGV movements on local roads, the reduction in overall waste produced by both projects and a reduction in amount of quarried stone required for Viking Link thus reducing emissions and the environmental impact of both projects.

We have commenced reinstatement around the substation but works will be suspended over the Winter months due to the wetter weather. We expect to recommence the remaining reinstatement works and landscaping from Spring 2021, following which the site welfare areas will be removed and the land will be returned to agricultural use.

In June 2020, seven local Boston charities received a £1,300 donation from the Siemens Energy and Triton Knoll Offshore Windfarm Project Safety Charity Fund. The donations are part of an initiative which promotes and rewards excellence in health and safety among staff and contractors working at the Onshore Substation construction site. The next round of awards was due at the end of construction but the award of the donations was brought forward in order to help the local charities, many of which have been under financial pressure because of the Covid-19 crisis. A further round of charity donations will be made within the coming weeks.

ONSHORE CABLES UPDATE

Our onshore cable contractor, J Murphy & Sons, have made significant progress on the construction of the onshore cable route during 2020 despite the Covid-19 restrictions being in place since March.



The last cable installation taking place.

Our extensive Horizontal Directional Drill (HDD) programme was completed earlier this year, where we successfully installed 740 individual drill shots made up of nearly 90,000 metres of HDD duct, which was a massive achievement in its self. This was followed by the installation of approximately 250,000m of protective plastic cable ducting linking each HDD location together to form a continues multi-ducted system along the entire 57km cable route.

We have also installed all the High Voltage Alternating Current (HVAC) cable within the ducted system with the last cable pull taking place on 12th September 2020, and all the individual cable lengths have now been jointed.

Our HV testing programme was undertaken during October meaning that the onshore cables are now fully ready to transfer electricity produced by the offshore wind turbines to the Triton Knoll Onshore Substation.

The majority of the ditch flumes installed to provide access during construction have been removed and we are continuing to install marker posts, which act as notification for the location of the HV cables for any future works in the vicinity of our cables.



The Baily Bridge installed over the Anderby main drain being removed.



Post construction drainage being installed ready for handover to landowner

We have reinstated a large proportion of the land used during construction and have already commenced the handover process with landowners to return the land to agricultural use. We have also completed the bulk of the post construction land drainage at all locations.

We are currently finalising our hedgerow planting scheme and confirm that new hedges will be installed to replace the ones removed during construction, and in order to protect the local the ecology.

The current expectation is to have the remainder of the cable route reinstated and handed back to landowners by the end of 2020, but this will be weather dependant so there is a possibility that some minor works will continue into the early part of 2021.



Photo showing reinstated land which has been handed back to the landowner and farmed.



TRANSITION JOINT BAY/ LANDFALL **UPDATE**

As confirmed in our previous newsletter, our offshore cable contractor, VBNK, completed both 800m Horizontal Directional Drills (HDDS) from the landfall to offshore in July last year. Our onshore cable contractor, J. Murphy & Sons (Murphy), then completed the enabling works to allow for the cable installation works earlier this year.

There are two cable circuits located within the Transition Joint Bay (TJB) commonly referred to as the East and West circuits. The offshore cable installation works were completed in the Summer and were followed by grouting of the cable ducts and backfilling of the exit pits nearshore, plus jointing works of the onshore and offshore cables at the TJB. Each export cable was installed in ducts from the TJB under the beach and dunes and to the HDD exit pits located approximately 600m offshore.

Reinstatement works around the TJB site are underway, followed by the reinstatement of the wider construction compound. We hope to have completed the majority of reinstatement by the end of 2020 but, as this activity is weather dependant, there is a chance it may be delayed into early 2021. Any hedgerows that have been removed as part of the construction will be replanted over the Autumn/Winter.

Unfortunately, due to Covid-19 restrictions, we were unable to hold our planned Community Drop-in Session in Anderby so have communicated upcoming works via letter to local residents.





Top - The Triton Knoll TJB construction compound with the Ndurance in shot.

Middle - Cable pulled into TJB.

Above - Photo taken onboard the cable installation vessel (the Ndurance) showing the cable being loaded onto the vessel.

ECOLOGY UPDATE



Now that construction at the substation and cable route is nearing completion, our ecologists have been busy planning and supervising the reinstatement and environmental enhancements in the areas affected by the construction of the Triton Knoll project.

Hedgerow Reinstatement

Hedgerows are important habitats, especially in the intensively farmed landscape of LincoInshire, where they act as both a highway network and supporting habitat for a variety of animals and birds. As the agricultural land is reinstated and returned to the landowners we will be replanting any sections of hedgerows that were removed for the Triton Knoll project over autumn/winter 2020. Further hedgerow planting will also take place within existing gaps in hedgerows along the cable route to increase the overall length and connectivity of the hedgerow network. These hedgerows will be replanted with native species including Hawthorn, Hazel, Blackthorn and Holly.



Bridge removal at DK 18 (water voles present) – banksides protected and impact minimised.



A badger gate installed during reinstatement.

Water Crossings and Ditches

Ecology surveys are ongoing at each water crossing, prior to reinstatement to check for nesting birds, badger activity and water voles, ensuring that none will be affected by the reinstatement works.

Juvenile Sedge Warblers and a pair of Reed Buntings were observed close to the site of a proposed flume for operational access. The area around the nesting birds was marked off and an ecologist was present during the limited strimming works to ensure no disturbance took place.

To compensate for the loss of around 30m of water vole habitat due to the construction of the access road into the Triton Knoll Substation, a new 200m ditch has been dug. This has been designed to encourage habitation by water voles and also provides connectivity with adjacent water vole areas.

Badgers

Surveys prior to reinstatement revealed that two setts along the route had the potential to be affected by reinstatement, where badger activity had spread closer to the haul road. Two holes were temporarily closed under licence whilst removal of the haul road took place. When the works were complete the holes were opened once again and the badgers could carry on as before.



A photo of a Sedge Warbler taken during reinstatement.

HOW TO KEEP UP TO DATE

Our project website is kept up to date with all our latest news and information, while we will also keep communities informed using newsletters and community drop-in events. In the meantime, please feel free to contact the team using the details below.

Please note our change of address

- E. info@tritonknoll.co.uk
- **T.** 0800 2545 270
- A. Triton Knoll Offshore Wind Farm Ltd Windmill Hill Business Park, Whitehill Way, Swindon, Wiltshire, SN5 6PB.
- W. www.tritonknoll.co.uk

If you require this newsletter in large print, please request a copy by calling 08002 545270. You may have noticed that the old innogy branding belonging to our majority owner has disappeared. innogy is now part of RWE Renewables, a subsidiary of RWE, and one of the world's leading renewable energy companies.

Visit www.rwe.com to find out more.

RWE has set an ambitious target to become carbon neutral by 2040, and is committed to investing at least €5bn net by 2022 to expand its renewables portfolio globally.

For Triton Knoll, it's a case of business as usual. We are jointly owned, by RWE, J-Power and Kansai Electric Power, with RWE managing our construction and long-term operation and maintenance works on behalf of the project partners.



