

PROFESSIONAL SUPPORT TO THE WIND INDUSTRY



Realise Energy Services

SUMMER | AUTUMN NEWSLETTER 2022

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FORWARD

Welcome to the Summer / Autumn 2022 issue of Realise Energy Services newsletter. As the dust hopefully finally settles on Covid, the management team and original founders of Realise Energy Services are delighted to be able to announce the management buy-out of the Company and its subsidiaries, Realise WTN UK and Realise Optinergy NI, from Randolph Renewables Ltd.

Realise was originally founded by some of the members of the current management team in 2016 having seen an opportunity to build on their previous turbine supply and installation business and develop a new business focused on the delivery of quality longer-term operation and maintenance services for medium wind turbines. As part of the management team's wish to grow that business, in 2019 it entered into a relationship with Randolph Renewables to bring investment into the Company to fund the necessary growth. As Realise continued to grow and develop over the last three years, now supporting a family of over 200+ turbines across GB and NI, the management team took the opportunity to buy out the investment and take the company on the next stage of its development.

We firmly believe this buy-out and continued dedicated leadership from an experienced management team will strengthen the focus and service offered to our customers, together with allowing the progression of new opportunities for further growth and development. As such I look forward to continuing to work with everyone in this exciting new chapter.

Sheridan Jenkins, Managing Director



ARE YOU LOOKING FOR A TURBINE FOR NIROC REPOWERING OR FIT REPLACEMENT?



VESTAS V52, A POPULAR CHOICE FOR REPOWERING AND REPLACEMENT

Realise can offer a collaborative approach to help save you money if you are planning to take advantage of the current opportunities to 'Repower' in Northern Ireland or 'Replace' your turbine in Great Britain following the recent change to the FiT legislation, we can help you with sourcing, supply and installation of a suitable turbine.

At this stage in your current project's lifetime, overall costs for changing turbines are key in making sure the planned swap out is worthwhile and offers a better option for the remainder of its operational life. On that basis, Realise can help in four key ways:

CONT...

ARE YOU LOOKING FOR A TURBINE FOR NIROC REPOWERING OR FIT REPLACEMENT? CONT...

1) Turnkey service - Realise will work with you for the entire process from decommissioning your current turbine, to sourcing a replacement, to arranging delivery and then erection and commissioning of the replacement.

2) Compliance - There are a number of factors that must be considered to make sure your new turbine complies with the various rules and regulations. In Northern Ireland, adhering to NIE's G59 requirements is key and this has a bearing on the configuration and specification of turbines. In addition, care is needed to ensure your turbine has not already received UK subsidy otherwise subsidies can be affected. Realise can help you make the right choice.

3) Lifetime Operation and Maintenance Cover - Realise offer a range of short and long-term operation and maintenance packages for your new turbine to cover its entire lifetime. Our clear pricing ensures cost certainty for this element of your operating costs; and

4) Turbine Brokerage - A key question often asked is what an owner should do with their existing turbine once decommissioned. If supplying your new turbine, or we have been taken on to decommission your old one, Realise will dismantle the current turbine and leave it on site alongside the existing access to allow easy recovery and removal by a buyer. We will then advertise your turbine for free on our brokerage platform to a wide audience which may help you try and find a new owner.

[Click here to visit our brokerage platform](#)

Realise can supply a range of turbine makes and models to suit Repowering and Replacement, please do get in touch to find out if we can help you source what you require.

Given these turbines are usually sourced from existing operational sites, with a current high level of demand, the sooner you start this process the better.

BESSY BELL 1



Realise has recently been appointed as both the operation and maintenance providers and asset managers for Bessy Bell 1 Wind Farm in County Tyrone, Northern Ireland by the wind farm's new owners. Bessy Bell 1 comprises 10 x 500kW Vestas V39 turbines that have been generating since 1995. As such, the make, model and age of the turbines places them firmly at the centre of Realise's expertise and skillset.

NEW STAFF ADDITIONS

RYAN PENMAN - OPERATIONS MANAGER



At the start of September, we were pleased to welcome Ryan Penman as Realise's new Operations Manager. Ryan comes to the Company with a great skillset and much relevant experience, having worked for both Siemens and Wood Group for the last 12 years, latterly as Operations and Maintenance Manager. Ryan has considerable hands-on experience and hopes to make contact with Realise customers over the coming months to introduce himself.

HEATHER ROBERTSON OPERATIONS ADMINISTRATOR

In May this year we were also delighted to welcome Heather Robertson as our Operational Administrator. Heather is responsible for monitoring Realise's fleet of turbines from our Control room in Perth and providing an operational support function to our customers handling enquiries, collating operational data and producing turbine performance reports.

ALISON MACKENZIE AND HUGH JACKSON - FINANCIAL DIRECTOR



Also joining the Realise team this year and strengthening the finance department are Alison Mackenzie, as Accounts Administrator, and Hugh Jackson, as Financial Director. Both bring considerable financial experience and skills and will be helping to streamline our internal processes and make financial and administrative systems more efficient for all as we continue to enhance our service offering to customers.

FEED-IN TARIFF (FIT) DECISION ON REPLACEMENT GENERATING EQUIPMENT

Following its recent consultation on the subject, Ofgem have announced how it intends to treat changes to its published FiT guidance documents with respect to replacement generating equipment at an accredited FIT installation. This was in response to a request for clarity from owners on how certain changes, repairs or replacement of generating equipment may affect an installations accreditation to the FiT scheme.



In summary the agreed changes will allow:

- **Replacement or temporary removal of generating equipment without losing an installation accreditation;**
- **Extensions and reductions in Total Installed Capacity (TIC) of the generating equipment up to 5MW. If extended, only the original capacity will receive FiT payments, however, this does present the opportunity for an additional revenue stream from a larger turbine. In cases where generation and export meters are shared, payments will have to be prorated accordingly;** and.
- **The use of improved technology or replacement generation equipment in the instance that previous technology and/or components are no longer available.**

Ofgem and the FIT licensee must be notified and any modifications will still be reviewed on a case-by-case basis and need to be justified.

It should be noted that breaching scheme rules can still result in the withdrawal of FIT accreditation. This includes but is not limited to, instances where a FIT installation is decommissioned, relocated, or no longer reliant on an eligible low-carbon energy source.

If you are looking to upgrade and/or replace your existing FIT accredited wind turbine and would like to discuss the possibilities of extending your generation capacity in further detail please do make contact.

NIE SCADA AND REACTIVE POWER CONTROL UPDATE



With less than 12 months to go until generators (over 200kW) must have an approved NIE SCADA system installed in conjunction with the turbine, owners are being encouraged to contact their approved installer to ensure the deadline is met.

With so many turbines requiring this equipment to be installed, owners are advised to ensure that installation is not left until the last minute as this may result in them missing the deadline and lead to potential disconnection from the grid by NIE.

Owners of affected generators have up until December 2022 to carry out the installation of the required SCADA and Reactive Power Control equipment which, once installed by a verified installer, will be signed off by NIE following the process below:

- **Verified SCADA Installer to supply and install the SCADA/Remote Telemetry Unit (RTU) and Reactive Power Control equipment in the substation in conjunction with NIE and in line with the NIE SSG SCADA Setting Schedule.**
- **Once installed, the SCADA Installer will contact NIE Networks to establish a communications link to NIE Networks SCADA Control System and liaise with NIE Networks to perform a SCADA Site Acceptance Test (SAT). This will determine if SCADA has been installed correctly at your generator. The SAT will ensure all required data and control signals are successfully communicated.**
- **Upon confirmation of successful installation and assurance that the equipment meets the required reactive power control specifications/performance, a SAT Certificate will be issued to each generator.**

NIE SCADA AND REACTIVE POWER CONTROL UPDATE CONT...

As a Verified SCADA Installer, Realise Energy Services are pleased to offer SCADA and Reactive Power Control solutions to suit turbine and site-specific requirements.

The solution offered by Realise Energy Services has been in development since 2011 and over the years different configurations have been tested to find the most effective and efficient solution. There are already quite a number of these units fitted and tested with NIE Networks, some of which have been operating for an extended period of time. We are not aware of any other system which has been as extensively and successfully deployed to date.

If you would be interested in a quotation for the supply, installation and commissioning of the NIE approved SCADA and Reactive Power Control solution, please get in touch by emailing

enquiries@realise-energy.co.uk

or visit our website **www.realise-energy.co.uk**



REALISE STAFF ATTEND NEW MONTROSE RENEWABLES TRAINING FACILITY



Health and Safety and staff development are Realise's priority objectives. To ensure this culture is maintained throughout the Company, we ensure staff are continually trained as part of a broader staff developed programme.

As part of this programme, two engineers recently attended the BFPA accredited UK training facility in Montrose, where they successfully completed their CETOP H1 Hydraulics Training Certificate.



REALISE OFFERS THE FOLLOWING RANGE OF SERVICES:

- **A wide range of Service and Maintenance Contracts**
- **Turbine decommissioning**
- **Turbine Supply and Installation**
- **Turbine Inspection and Reporting**
- **Control and SCADA System Upgrades**
- **Turbine Performance Optimisation**
- **Blade Inspection and Repair**
- **Site Maintenance**
- **Research and Development**
- **Turbine Brokerage**

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