



Realise Energy Services & Farm Energy NI Newsletter

“Providing professional support for wind turbine owners”

Newsletter No: 5

PART OF THE RANDOLPH GROUP OF COMPANIES May 2019



Grid Code Compliance

Generators above 200kW in Northern Ireland will soon be required to adhere to a number of new requirements from NIE to meet grid code obligations. These include:

- G59 Setting alterations;
- Installation of grid SCADA monitoring equipment; and if necessary
- Installation of reactive power compensation equipment.

RES has recently met with NIE to fully understand the forthcoming timescales and equipment requirements. Together with our sister company, Farm Energy NI, we are creating a list of interested parties who may then be able to benefit from a Group discount for equipment and works required.

If you require any advice regarding grid code compliance or would like to be added to the Group discount list, (no obligation), please do not hesitate to get in touch.

RES becomes part of the Randolph Renewables Group of Companies

In recognition of the need to invest in new resources (engineers, tool and spares) to be able to provide a robust offering to customers, RES has become part of the Randolph Renewables Group of Companies. This move gives RES strong financial backing and payment guarantees for its customers.

Other companies in the Group support different areas of the renewables sector, from power purchase agreements to asset management and project development. This pool of talent gives RES access to a diverse range of skills and experience, as well as increasing its ‘family’ of supported turbines through the Group’s own generating assets.

In This Issue

- Grid Code Compliance in NI will soon be required
- RES becomes part of the Randolph Group of Companies.
- Employee Spotlight on two new members to the team.
- New offering in the shape of the DEIF controllers



Employee Spotlight

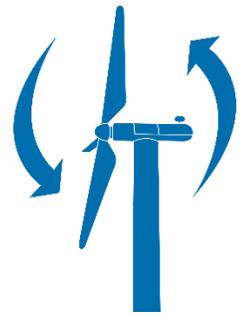
With the ever-increasing demand for our services in Northern Ireland we have invested in a dedicated team available 24/7 based out of our offices in Magherafelt. Both Declan and David are industry experienced technicians with over 10 years of experience between them dealing with any issues that come their way with both professionalism & efficiency to ensure that the turbines are maintained in tip top condition.




BALMORAL
SHOW 2019
15TH - 18TH MAY

farmenergyni

Achieving More Together



Farm Energy NI (FENI) is part of the Randolph Renewables Group of Companies. Our members consist of any farmer or business that owns or operates a renewable generator. We operate like a co-op to ensure our members keep their renewable energy investments healthy and prosperous.

FENI utilises group buying power to secure the best financial returns for members trading of exported electricity and ROCs. In addition, the business provides impartial advice on renewable energy projects, Ofgem account management and compliance.



Being part of the Randolph Renewables Group, we are in the unique position to offer renewable generators a complimentary range of products and services. We are currently offering one-to-one clinics to assist generator owners maximise and optimise their renewable projects. This service will look at ROCs & PPA contracts, the O&M, financial planning and tax efficient opportunities such as repowering, battery storage, turbine performance, rates review, sales or acquisition opportunities. Matters such as Insurance, the OFGEM Audit, NIE Networks Regulations and Data Analysis will also be covered.

The Farm Energy team has over 30 years collective experience in wind, solar and AD technologies. With over 125 successful renewables projects and strong relationships within the NI renewable sector, we are the 'One Stop Shop' and brand you can trust.

For further information please contact us on;

**Farm Energy NI, Unit C2, 80-82 Rainey Street, Magherafelt,
BT45 5AJ. T: 028 7930 0606 info@farmenergyni.co.uk
www.farmenergyni.co.uk**

“Achieving more together”

Noise Sensor


**BALMORAL
SHOW 2019**
15TH - 18TH MAY

**ROYAL
HIGHLAND SHOW**
21ST - 24TH JUNE



**ROYAL
HIGHLAND
SHOW 2018**
21 - 24 JUNE

PARTNER SINCE 1981
**Royal Bank
of Scotland**

Realise Energy Services and partners will be exhibiting at the 2019 Royal Highland Show.

Please do come and meet us.



Proactive maintenance is becoming a major factor in the achievement of high turbine availability figures. High turbine availability is key for high turbine performance figures. 'Nipping it in the bud' or stopping an issue before it creates major stoppage time is a key part of any annual maintenance regime. Costly blade repairs are a key example. Once a blade problem is identified, turbine stoppage is usually immediate and until the blade is made safe and repaired, the turbine should not be operated. This leads to significant down time and loss of production.

RES has recently been testing a new blade sensor that it would like to add to its range of service techniques. The sensor is left at a turbine for a short period of time and an acoustic signature of the turbine's blades is recorded. This signature is compared to a healthy blade and when repeated at regular service intervals a long-term picture of the blade's health can be built up. Any change to this signature is immediately apparent and can be investigated and repaired before serious damage occurs. Even minute cracks and chips to the gel coat can be identified and repaired before they become bigger problems. If you are interested in a blade acoustic assessment program, please get in touch.

Additional Range of Services Offered

Realise Energy Services offers the following additional services for turbine owners:

- All Inclusive Service Contracts with availability guarantees
- Turbine inspections and reporting (Operation and Health and Safety Reporting)
- DEIF and SCADA system upgrades
- Latchway certified engineers and climb assist hoist upgrades
- Blade inspection, repair & pitching optimisation
- Tower and nacelle painting
- Site maintenance
- Transformer inspection and servicing plus oil analysis
- Re-powering and potential site purchase
- Research & Development



Blade inspection



Gearbox service



Blade maintenance



Control system

RES appointed as UK partner for Deif Wind Power


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Following training at their facilities in Denmark, Realise Energy Services have been appointed as the UK partner of Deif Wind Power. With an impressive background in turbine control system design and manufacture, Deif offer a comprehensive range of wind turbine retrofit control solutions, wind park & pitch control technology and turbine control strategies. Based on decades of knowhow, DEIF Wind Power Technology creates innovative green solutions based on leading technology and hardware components that always deliver to their brand promise: Power Efficiency.



Realise Energy Services trained technicians are now able to assess your turbine and design, model and install a Deif solution tailored specifically to your turbine to optimise production with increased functionality and reduced wear and tear ensuring improved turbine performance and availability.

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functionality and reduced wear and tear ensuring improved turbine performance and availability.

Contact Realise Energy Services for more information.

Contact Us

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**Realise
Energy Services**

Turbine optimisation offers improved performance and returns

Realise Energy Services offer a turbine optimisation service as part of our service and maintenance options to ensure that your turbine is set up correctly for your site and maximises performance and availability.

Unique site conditions can have a significant effect on turbine performance, whether it's the effect of nearby buildings or woodlands reducing wind resource or local topography causing turbulence.

Wind turbines have a range of sensors which need to be set correctly to suit both site conditions and turbine operational requirements. Similarly, blades need to be set to the correct angle of pitch to suit either low or high wind sites or those where turbulence is an issue. Incorrectly set blades can have a particular impact on production - especially in stall-regulated turbines - as well as increasing wear and tear on the turbine.

Contact Realise Energy Services to arrange a wind turbine inspection and review or discuss turbine optimisation solutions in more detail.

If you need an experienced and reliable turbine support service and your current service and maintenance contract is due to expire over the next few months, please do contact us to get a free, no obligation quotation.
