





### Meeting Introduction

Camilla Barlocco, Brand & Stakeholder Manager Ventient Energy





#### **PROGRAMME**

#### 1. VENTIENT OVERVIEW

Tony Crombie, Regional Asset Management

#### 2. WIND FARMS IN SCOTLAND

Tony Crombie, Regional Asset Management

#### 3. NOVAR WIND FARM

Jon Priddy, Novar Asset Manager

#### 4. LIFE EXTENSION APPLICATION

Joanna Thornton, Project Manager

#### 5. QUESTIONS AND ANSWERS





## Ventient Energy Company Overview

Tony Crombie, Regional Asset Management Ventient Energy

#### **VENTIENT ENERGY**

#### **PORTFOLIO KEY STATISTICS**





103 1.9<sub>GW</sub>

Operational onshore wind farms Installed capacity

2nd

largest

European onshore windfarm group non utility owned

Operational onshore wind farm

Operational Headquarters in Edinburgh



Board in Luxembourg



**Business** Development in Madrid

£1.5M community funding in the UK each year





Global / Renewable Power: Wind Power Generation: On-Shore Wind Power



**H&S Awards** 

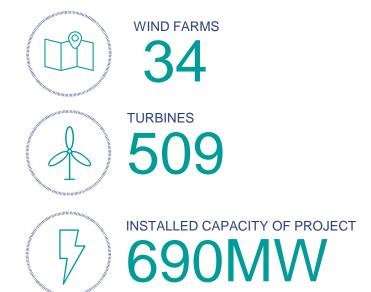


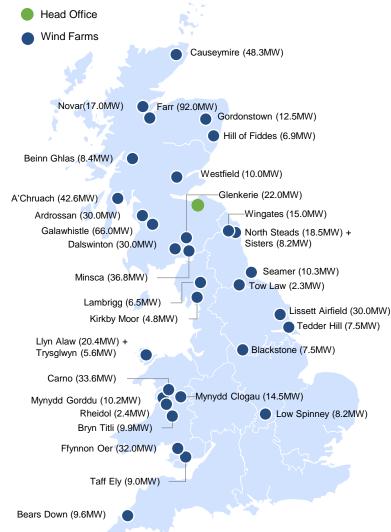




### VENTIENT ENERGY UK PORTFOLIO











### Wind farms in Scotland

Tony Crombie, Regional Asset Manager Ventient Energy



### VENTIENT ENERGY SCOTLAND





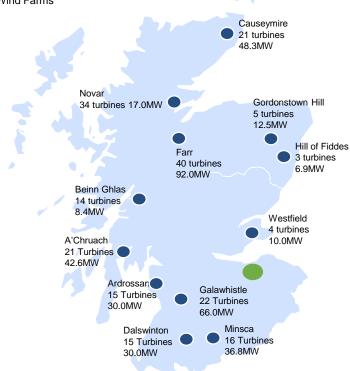






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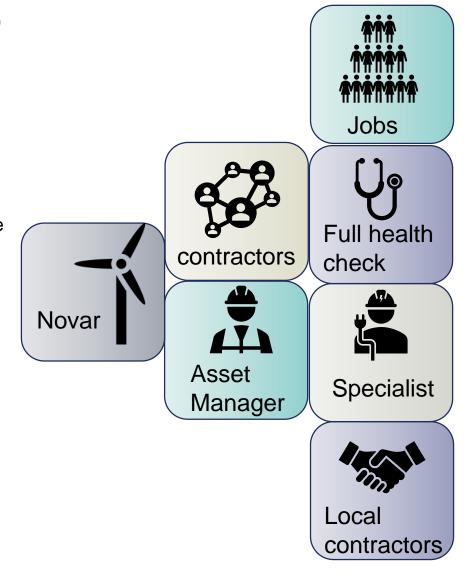


NOVAR WIND FARM UPDATE 8

#### **VENTIENT ENERGY – SCOTLAND**



- Our Scottish wind farms create jobs for 40 people permanently employed. 5 of them are dedicated to Novar.
- 1 dedicated Ventient Asset Manager per wind farm.
- 2 full health check of each asset per year
- Specialist engineers employed to complete any additional work beyond the scope of on site engineers.
- Approximately 6 Local contractors employed to serve the wind farms in other ways:
  - ✓ Haulage
  - ✓ Cranes
  - ✓ Certification/Testing
  - ✓ Civil work







### Operating Novar Wind Farm

Jon Priddy, Asset Manager Ventient Energy



#### PERFORMANCE AND SITE IMPROVEMENT



#### The site performance:

Since we took ownership of Novar in 2017, the wind farm has generated 85.8 GWh of energy Novar generates enough clean electricity to supply around 10,304 homes\* every year

#### The site improvements:

- Emergency facilities improved
- Control building upgrade internally
- Site tracks improved
- Remote Met Station installed for accurate data
- Can Am off road vehicle to assist during the winter months
- Close interaction with Novar Estate to minimise impact during stalking season

<sup>\*</sup>Based on an average energy yield and assumed annual household usage of 4,115 kWh per year^ = 10,304 homes. Typical domestic consumption values from OFGEM

#### OPERATING NOVAR WIND FARM



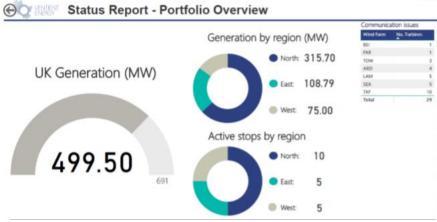
- Farming without the sowing and cultivation but still fraught with the uncertainties that come from the weather
- Predictions, targets and budgets
- Planned Preventative Maintenance agreed
- Dynamic multi tasking process with the weather adding uncertainty at random
- Maximising generation when its windy, maximising maintenance and repairs when its not and keeping people safe



#### A DAY IN THE LIFE



- MANAGEMENT OF TECHNICAL, FINANCIAL AND SAFETY PERFORMANCE
- STAKEHOLDER MANAGEMENT, LANDOWNER, ESTATE ACTIVITIES, CONTRACTORS
- WORKS PLANNING
- HEALTH AND SAFETY MANAGEMENT
- MONITORING STATUS REPORTS
- MONITORING TRENDS
- REVIEWING WEATHER AND PRODUCTION FORECASTS
- INFORMED DECISION MAKING

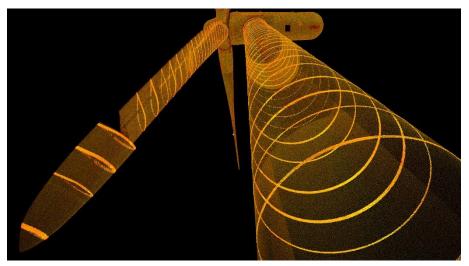




### GOING FORWARDS – WHERE DO WE GO FROM HERE



- 2019 A YEAR OF REVIEW AND ANALYSIS
- FULL STRUCTURAL ANALYSIS UNDERTAKEN - TOP TO BOTTOM
- BLADE SURVEYS COMPLETED LATEST DRONE TECHNOLOGY
- DRIVE TRAIN ANALYSIS FROM HUB TO GENERATOR
- TURBINE WALK DOWNS
- SCOPE OF WORKS DETERMINED
- WORK STARTED ON MAJOR COMPONENTS AND DRIVE TRAIN
- SCHEDULED COMPLETION Q2-3 2020
- SERVICING AND ANNUAL INSPECTIONS ETC AS USUAL





#### **NOVAR WIND FARM: LOCAL BENEFITS**



- Local business premises in Invergordon used to support the wind farm with storage and off site maintenance facility
- Local contactors used for craneage, civils works, snow clearing etc carried out at site
- Local site team comprising 4 technicians

- Community Fund supporting several projects:
  - Home Start East Highland
  - West End Community Hall
  - Assistance with electricity
    bills for the over 70s
  - Ardross Primary School for extracurricular activities
  - Ardross Christmas Treats fund





## The Life Extension Application

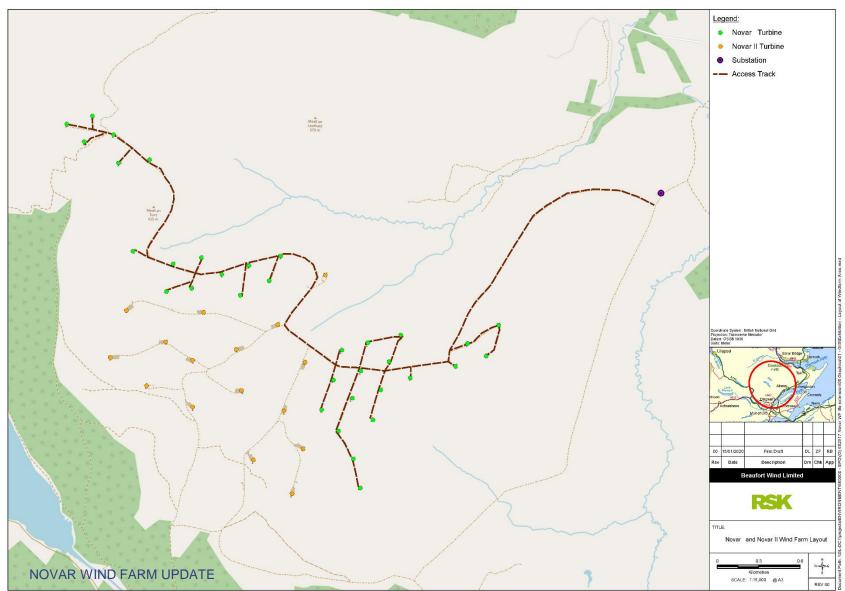
Joanna Thornton, Project Manager



#### NOVAR WIND FARM AND NOVAR 2 LAYOUT

-The life extension application relates to Novar Wind Farm only. Novar 2 is owned by Innogy Renewables UK-





#### LIFE EXTENSION APPLICATION



### WHAT'S THE APPLICATION

- Existing planning consent expires in August 2021
- Detailed technical assessments confirmed ability to operate for extended period
- Application to extend operational life for a further 10 years
- Environmental consultants
  RSK appointed to help prepare the application

# WHAT DOES IT MEAN FOR THE COMMUNITIES

- No new infrastructure
- Traffic to and from the site will continue to be low intensity
- Opportunity to help support continuation of clean energy generation
- Increase in the community fund to £3,000 / installed MW per annum from August 2021







### THANK YOU

**Ventient Application Team** 

Should you have more questions, please email us at WindFarms@ventientenergy.com

