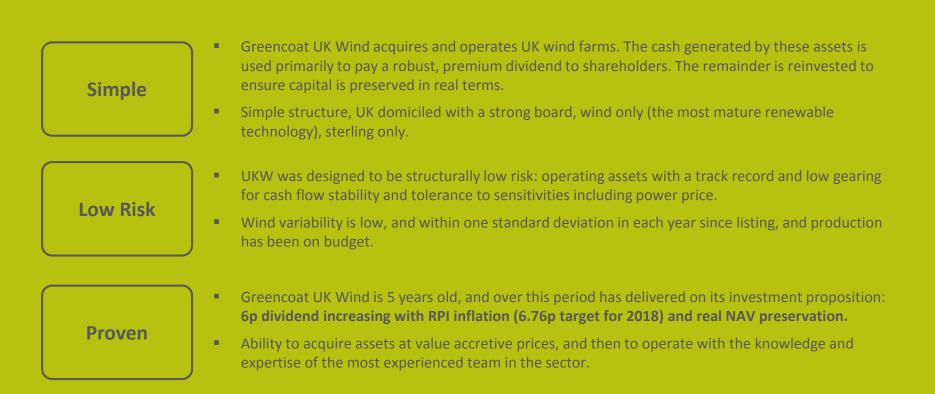




# **Annual Results**

February 2018

# GREENCOAT UK WIND



## **2017 Highlights**

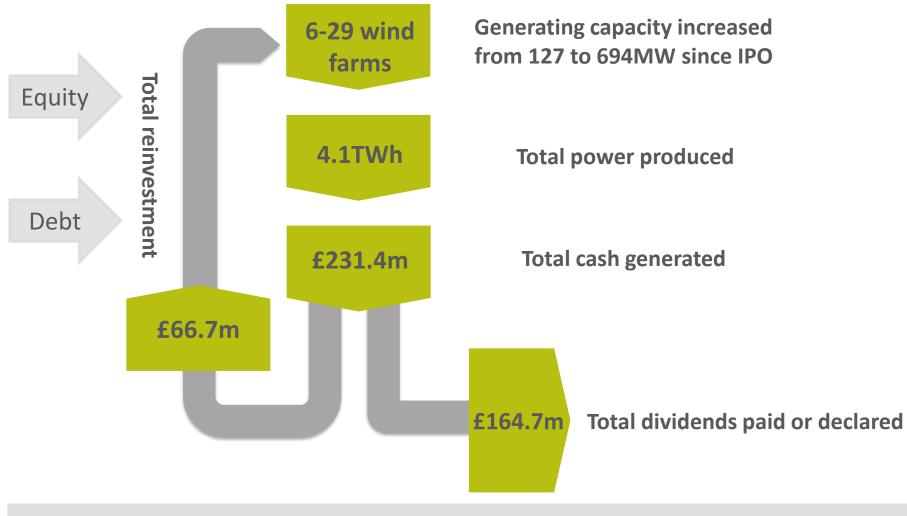


- Power generation of 1,457GWh; in line with budget
- Net cash generation of £80.1m (2016: £49.0m)
- Dividends of £57.3m (6.49p per share) declared with respect to the year and 6.76p target for 2018
- Eleven investments made taking generating capacity to 694MW
- GAV increased from £900.1m to £1,409.0m
- £340m equity raised
- NAV increased from £800.1m to £1,144.0m (2.6p increase to 111.2p per share)
- Market capitalisation of £1,263m
- Total gearing of £265m (19% of GAV) of which £100m is longer term fixed rate debt
- Total shareholder return of 8.4% (58.3% since listing)

#### The leading UK listed renewable infrastructure fund, invested in operating UK wind farms

## **Simple Model**





"6p dividend, increasing with RPI inflation and real NAV preservation"



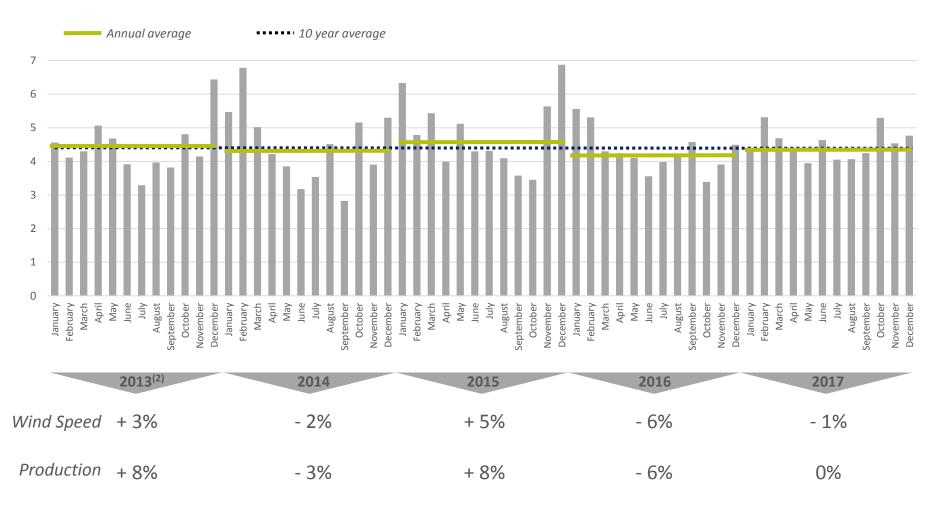
Period	Production	Cash Generation	Dividend <sup>(1)</sup>	Dividend Cover <sup>(2)</sup>	RPI	NAV Growth
2013 <sup>(3)</sup>	291.5GWh	£21.6m	£14.2m (4.50p)	1.8x	1.9%	2.5%
2014	564.6GWh	£32.4m	£24.8m (6.16p)	1.6x	1.6%	2.5%
2015	799.3GWh	£48.3m	£29.6m (6.26p)	1.7x	1.2%	0.5%
2016	978.1GWh	£49.0m	£38.8m (6.34p)	1.4x	2.5%	4.0%
2017	1,457.4GWh	£80.1m	£57.3m (6.49p)	1.5x	4.1%	2.4%

# Secure and stable dividend cover as a result of low leverage, cash generative nature of operational wind farms and predictable production

Notes: (1) dividends declared with respect to the period; (2) dividend cover as reported; (3) 27 March to 31 December 2013



#### UK average wind speed (m/s)<sup>(1)</sup>







# **Operational and Financial Performance**

## **Operational Performance**

Bicker Fen80%Nov - Dec8.89.58%Bin Mountain100%Jan - Dec25.024.0-4%Bishopthorpe100%Jul - Dec25.525.91%Braes of Doune50%Jan - Dec81.983.62%Carcant100%Jan - Dec17.420.116%Clyde19.775% <sup>(1)</sup> Jan - Dec317.7331.7 <sup>(2)</sup> 4%Corriegarth100%Sep - Dec79.464.6-19%Cotton Farm100%Jan - Dec51.347.5-7%	2018 Budget (GWh)
Bishopthorpe         100%         Jul – Dec         25.5         25.9         1%           Braes of Doune         50%         Jan – Dec         81.9         83.6         2%           Carcant         100%         Jan – Dec         17.4         20.1         16%           Clyde         19.775% <sup>(1)</sup> Jan – Dec         317.7         331.7 <sup>(2)</sup> 4%           Corriegarth         100%         Sep – Dec         79.4         64.6         -19%           Cotton Farm         100%         Jan – Dec         51.3         47.5         -7%	44.0
Brase of Doune         50%         Jan – Dec         81.9         83.6         2%           Carcant         100%         Jan – Dec         17.4         20.1         16%           Clyde         19.775% <sup>(1)</sup> Jan – Dec         317.7         331.7 <sup>(2)</sup> 4%           Corriegarth         100%         Sep – Dec         79.4         64.6         -19%           Cotton Farm         100%         Jan – Dec         51.3         47.5         -7%	25.2
Carcant         100%         Jan – Dec         17.4         20.1         16%           Clyde         19.775% <sup>(1)</sup> Jan – Dec         317.7         331.7 <sup>(2)</sup> 4%           Corriegarth         100%         Sep – Dec         79.4         64.6         -19%           Cotton Farm         100%         Jan – Dec         51.3         47.5         -7%	51.1
Clyde         19.775% <sup>(1)</sup> Jan – Dec         317.7         331.7 <sup>(2)</sup> 4%           Corriegarth         100%         Sep – Dec         79.4         64.6         -19%           Cotton Farm         100%         Jan – Dec         51.3         47.5         -7%	86.1
Corriegarth         100%         Sep – Dec         79.4         64.6         -19%           Cotton Farm         100%         Jan – Dec         51.3         47.5         -7%	17.4
Cotton Farm         100%         Jan – Dec         51.3         47.5         -7%	312.9
	214.6
	51.3
Deeping St. Nicholas 80% Nov – Dec 6.0 6.6 10%	29.8
Drone Hill 51.6% Jan – Dec 31.0 32.0 3%	31.0
Earl's Hall Farm 100% Jan – Dec 32.4 29.9 -8%	32.4
Glass Moor 80% Nov – Dec 5.9 6.1 4%	29.4
Kildrummy 100% Jan – Dec 56.7 60.8 7%	56.7
Langhope Rig 100% Apr – Dec 32.4 37.5 16%	46.2
Lindhurst 49% Jan – Dec 11.6 10.5 -10%	11.6
Little Cheyne Court 41% Jan – Dec 59.2 50.3 -15%	59.2
Maerdy 100% Jan – Dec 63.7 59.4 -7%	64.4
Middlemoor 49% Jan – Dec 69.7 73.9 6%	69.7
North Hoyle 100% Sep – Dec 66.8 75.8 14%	180.4
North Rhins 51.6% Jan – Dec 37.8 38.6 2%	37.8
Red House         80%         Nov – Dec         4.5         4.8         8%	22.3
Red Tile         80%         Nov – Dec         8.6         9.4         10%	42.9
Rhyl Flats         24.95%         Jan – Dec         70.3         73.5         5%	70.3
Screggagh 100% Jan – Dec 47.7 44.6 -6%	48.2
Sixpenny Wood 51.6% Jan – Dec 28.8 27.2 -6%	28.8
Slieve Divena 100% Sep – Dec 21.7 18.8 -13%	59.2
Stroupster 100% Jan – Dec 100.9 97.1 -4%	97.8
Tappaghan         100%         Jan – Dec         72.5         72.9         0%	73.3
Yelvertoft 51.6% Jan – Dec 21.3 20.7 -3%	21.3
Total 1,456.1 1,457.4 0%	1,915.3

(1) Ownership in Clyde was 28.2 per cent. until dilution and further investment on 4 September 2017.

<sup>(2)</sup> Includes curtailed generation.

#### GREENCOAT UK WIND

#### Portfolio availability in line with budget

Notable issues:

- Little Cheyne gearbox, converter and blade bolt issues
- Corriegarth post commissioning issues exacerbated by restricted access in Nov and Dec due to heavy snow
- Lindhurst replacement of several transformers and various scheduled grid outages
- Maerdy successful remediation of yaw gear issues and compensation received

#### Portfolio generation of 1,457GWh (in line with budget)

# **Financial Performance**



Group and wind farm SPV cash flows	For the year ended 31 December 2017 £'000
Net cash generation	80,069
Dividends paid	(52,300)
Acquisitions <sup>(1)</sup>	(502,179)
Acquisition costs	(2,672)
Equity issuance	340,000
Equity issuance costs	(4,912)
Net drawdown under debt facilities	165,000
Upfront finance costs	(2,048)
<b>Movement in cash (Group and wind farm SPVs)</b>	<b>20,958</b>
Opening cash balance (Group and wind farm SPVs)	20,738
Closing cash balance (Group and wind farm SPVs)	41,696
Net cash generation	80,069
Dividends	52,300
Dividend cover	1.5x

<sup>(1)</sup> Excludes acquired cash, includes cash received under wind energy true-ups.

#### **Financial Performance**



Net Cash Generation – Breakdown	For the year ended 31 December 2017 £'000
Revenue Operating expenses Tax Other	126,361 (33,619) (1,573) 1,983
Wind farm cashflow	93,152
Management fee Operating expenses Ongoing finance costs Other	(8,062) (983) (6,571) 1,394
Group cashflow	(14,222)
VAT (Group and wind farm SPVs)	1,139
Net cash generation	80,069

Net Cash Generation – Reconciliation to Net Cash Flows from Operating Activities	For the year ended 31 December 2017 £'000
Net cash flows from operating activities <sup>(1)</sup>	60,083
Movement in cash balances of wind farm SPVs <sup>(2)</sup>	13,679
Repayment of shareholder loan investment <sup>(1)</sup>	12,877
Finance costs <sup>(1)</sup>	(8,619)
Upfront finance costs <sup>(3)</sup>	2,048
Net cash generation	80,069

(1) Consolidated Statement of Cash Flows

<sup>(2)</sup> Note 9 to the Financial Statements (excludes acquired cash)

<sup>(3)</sup> Note 13 to the Financial Statements



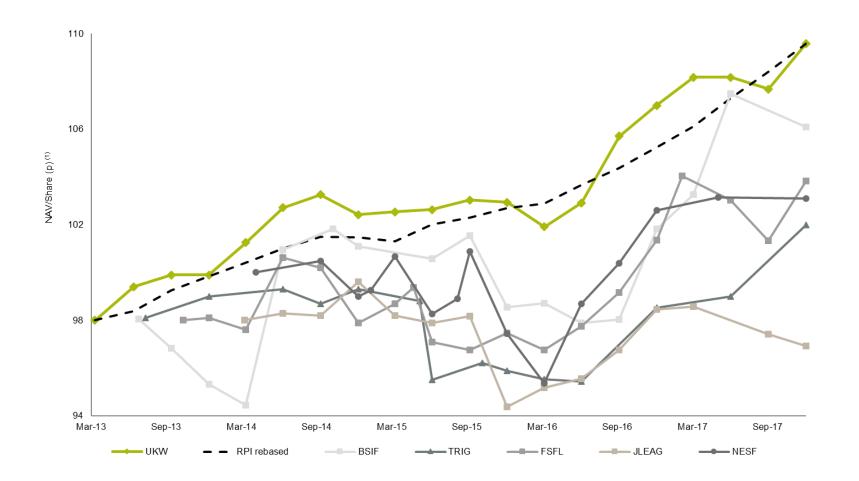
#### Investment Performance



Shares in issue	736,700,850	1,028,514,652
NAV/share (pence)	108.6	111.2

#### **Net Asset Value Since IPO**



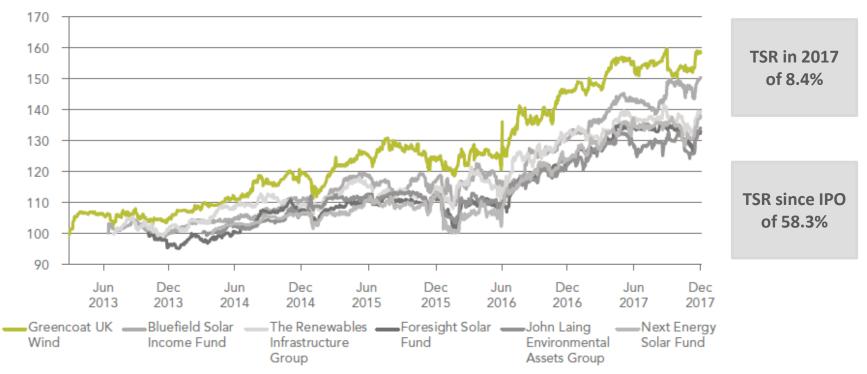


UKW NAV growth of 11.8% v RPI growth of 11.8% since IPO

#### **Investment Performance**







Strong, consistent return with correlation to inflation

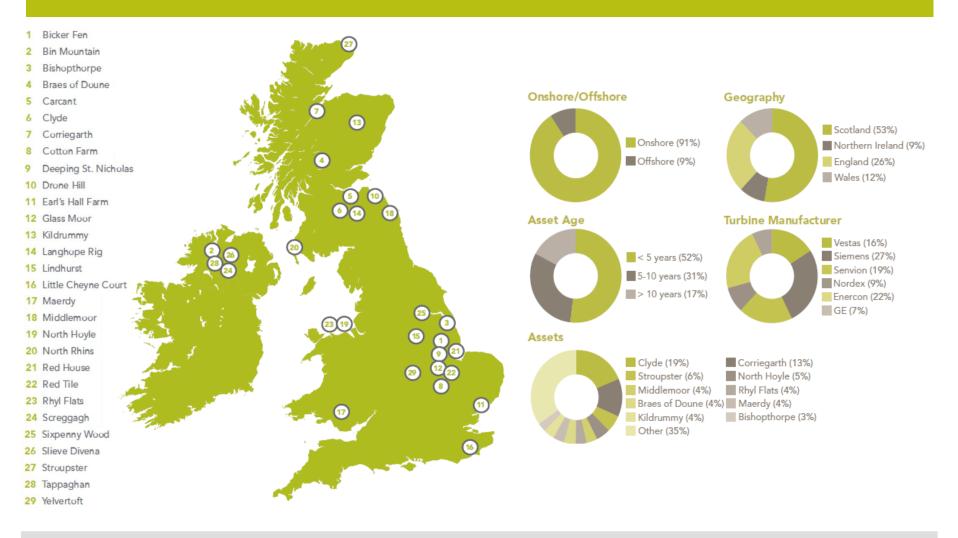




# Portfolio and Acquisitions

#### **Portfolio Overview**





#### Well-diversified portfolio generating sufficient electricity to power 620,000 homes

# Acquisitions in 2017



Wind Farm	Month of Acquisition	Seller	Net MW	Investment	Comment
Langhope Rig	March	GE	16.0	£39.9m	Bilateral
Bishopthorpe	June	BayWa	16.4	£47.8m	Repeat
North Hoyle	August	JP Morgan AM	60.0	£68.2m	JPM AM's only offshore asset
Slieve Divena	August	JP Morgan SM	30.0	£36.6m	JPM AM's only Northern Irish asset
Corriegarth	August	Invenergy	69.5	£182.0m	Transmission connected, second largest investment
Clyde	September	SSE	4.7(1)	£38.8m	Follow-on investment
Bicker Fen	October	EDF	21.3		
Red Tile	October	EDF	19.7		
Red House	October	EDF	9.8	- £94.3	Homogeneous portfolio, third utility partner
Deeping St Nicholas	October	EDF	13.1		
Glass Moor	October	EDF	13.1		
			273.7	£507.4m	

#### 11 value accretive investments – £507.4m invested in 2017

Notes: (1) 4.7MW is the net increase as a result of dilution from 28.2% of 349.66MW (Clyde 1) to 17.0% of 522.4MW (Clyde 1 + 2) and subsequent further investment to 19.8%. 16

# **Clyde Extension**



#### Overview

Previous Ownership	SSE
Capacity	• 173MW
Turbines	<ul> <li>54 x Siemens 3.2MW</li> </ul>
Commercial Operations Date	<ul> <li>Aug 2017</li> </ul>
PPA	<ul> <li>SSE until 2032</li> </ul>
Turbine O&M	Siemens
O&M Management	<ul> <li>SSE</li> </ul>

#### Location





- Clyde Extension construction indemnity fell away upon commissioning on 28 August 2017
- UKW/GLIL shareholding diluted from 49.9% to 35.0%
  - UKW shareholding diluted from 28.2% to 19.8%
- UKW/GLIL call option for a further 14.9% entered into, exercisable between 1 April 2018 and 30 June 2018
  - Option exercisable by UKW and GLIL or by either one of them

Follow-on investment in Clyde wind farms; option to increase shareholding in Q2 2018

## Corriegarth



#### Overview

Previous Ownership	<ul> <li>Invenergy</li> </ul>
Capacity	• 69.5MW
Turbines	23 x Enercon 3.02MW
Commercial Operations Date	<ul> <li>Apr 2017</li> </ul>
PPA	Centrica to 2032
Turbine O&M	Enercon
O&M Management	<ul> <li>Wind Prospect</li> </ul>

#### Location



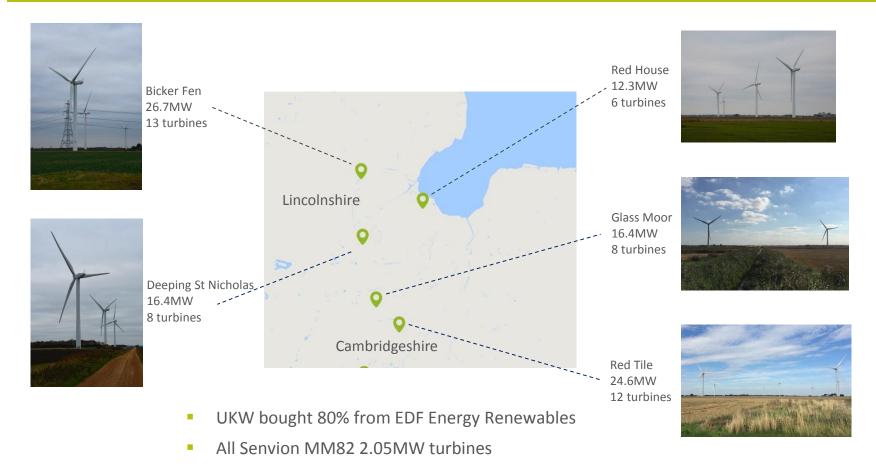


- Corriegarth is UKW's second transmission-connected wind farm investment
- Third Enercon site in the portfolio
- 15 year turbine warranty provided by Enercon
- Developed and constructed by US power project developer Invenergy
- Corriegarth was Invenergy's only remaining active UK wind project

#### Largest 100%-owned and second largest UKW investment

## **EDF English Portfolio**

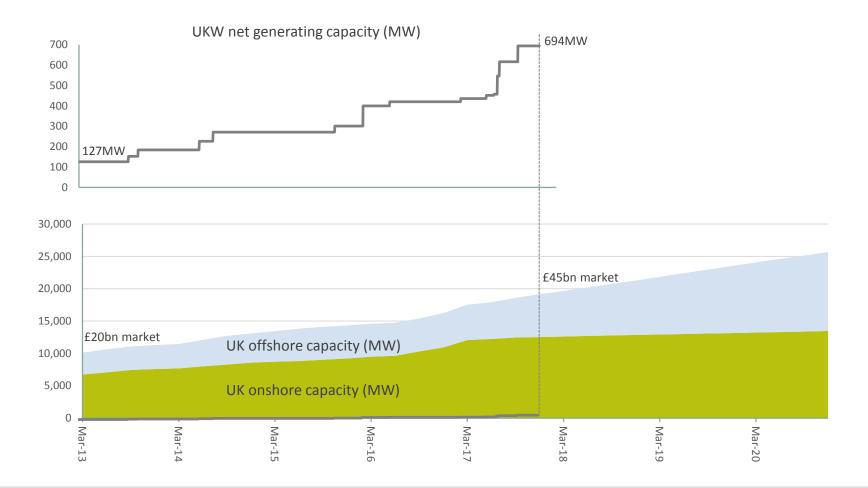




• EDF operates all five sites

#### **Execution certainty and desire to own without gearing**

## **Secondary Market - Continued Opportunities to Grow**



UKW owns a small portion of the operating UK wind market – set to grow to £70bn

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# **Summary**

## **2017 Highlights**



- Power generation of 1,457GWh; in line with budget
- Net cash generation of £80.1m (2016: £49.0m)
- Dividends of £57.3m (6.49p per share) declared with respect to the year and 6.76p target for 2018
- Eleven investments made taking generating capacity to 694MW
- GAV increased from £900.1m to £1,409.0m
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- Total shareholder return of 8.4% (58.3% since listing)

#### The leading UK listed renewable infrastructure fund, invested in operating UK wind farms





# Appendix



Wind Farm	Country	Turbines	РРА	Total MW	Group Ownership Stake	Net MW <sup>(1)</sup>	Commercial Operations Date	Acquisition Date	ROCs / MWh	Forecast Net Load Factor <sup>(2)</sup>
Bicker Fen	England	Senvion	EDF	26.7	80%	21.3	Sep-08	Nov-17	1.0	23.6%
Bin Mountain	N Ireland	GE	SSE	9.0	100%	9.0	Jul-07	Mar-13	1.0	32.0%
Bishopthorpe	England	Senvion	Ахро	16.4	100%	16.4	May-17	June-17	0.9	35.5%
Braes of Doune	Scotland	Vestas	Centrica	72.0	50%	36.0	Jun-07	Mar-13	1.0	27.3%
Carcant	Scotland	Siemens	SSE	6.0	100%	6.0	Jun-07	Mar-13	1.0	33.0%
Clyde	Scotland	Siemens	SSE	522.4	19.8%	103.3	Oct-12 <sup>(3)</sup>	Mar-16 <sup>(3)</sup>	1.0 <sup>(3)</sup>	34.6%
Corriegarth	Scotland	Enercon	Centrica	69.5	100%	69.5	Apr-17	Aug-17	0.9	35.3%
Cotton Farm	England	Senvion	Sainsbury's	16.4	100%	16.4	Mar-13	Oct-13	1.0	35.7%
Deeping St Nicholas	England	Senvion	EDF	16.4	80%	13.1	Jun-06	Nov-17	1.0	25.9%
Drone Hill	Scotland	Nordex	Statkraft	28.6	51.6%	14.8	Aug-12	Aug-14	1.0	24.0%

Notes: (1) Net MW represents the Group ownership stake in the total MW capacity of the underlying wind farm; (2) Forecast net load factor is the expected output of the wind farm divided by the theoretical maximum output over a calendar year (as a %). Forecast net load factors are net of each wind farm's availability assumption. Forecast net load factors are P50 estimates (50% probability of output exceeding estimate) based on operational data (>1 year of operations) or modelled assumptions (<1 year of operations); (3) Clyde Extension (172.8MW) was commissioned in August 2017, acquired in September 2017, and receives 0.9 ROCs/MWh.



Wind Farm	Country	Turbines	РРА	Total MW	Group Ownership Stake	Net MW <sup>(1)</sup>	Commercial Operations Date	Acquisition Date	ROCs / MWh	Forecast Net Load Factor <sup>(2)</sup>
Earl's Hall Farm	England	Senvion	Sainsbury's	10.3	100%	10.3	Mar-13	Oct-13	1.0	36.1%
Glass Moor	England	Senvion	EDF	16.4	80%	13.1	Jun-06	Nov-17	1.0	25.9%
Kildrummy	Scotland	Enercon	Sainsbury's	18.4	100%	18.4	May-13	Jun-14	1.0	35.2%
Langhope Rig	Scotland	GE	Centrica	16.0	100%	16.0	Dec-15	Mar-17	0.9	33.0%
Lindhurst	England	Vestas	Innogy	9.0	49%	4.4	Oct-10	Nov-13	1.0	30.1%
Little Cheyne Court	England	Nordex	Innogy	59.8	41%	24.5	Mar-09	Mar-13	1.0	27.5%
Maerdy	Wales	Siemens	Statkraft	24.0	100%	24.0	Aug-13	Jun-14	1.0	30.6%
Middlemoor	England	Vestas	Innogy	54.0	49%	26.5	Sep-13	Nov-13	1.0	30.1%
North Rhins	Scotland	Vestas	EoN	22.0	51.6%	11.4	Dec-09	Aug-14	1.0	38.0%
North Hoyle	Wales	Vestas	Innogy	60	100%	60	Jun-04	Sep-17	1.0	34.3%

Notes: (1) Net MW represents the Group ownership stake in the total MW capacity of the underlying wind farm; (2) Forecast net load factor is the expected output of the wind farm divided by the theoretical maximum output over a calendar year (as a %). Forecast net load factors are net of each wind farm's availability assumption. Forecast net load factors are P50 estimates (50% probability of output exceeding estimate) based on operational data (>1 year of operations) or modelled assumptions (<1 year of operations).



Wind Farm	Country	Turbines	РРА	Total MW	Group Ownership Stake	Net MW <sup>(1)</sup>	Commercial Operations Date	Acquisition Date	ROCs / MWh	Forecast Net Load Factor <sup>(2)</sup>
Red House	England	Senvion	EDF	12.3	80%	9.8	Jun-06	Nov-17	1.0	25.8%
Red Tile	England	Senvion	EDF	24.6	80%	19.7	Apr-07	Nov-17	1.0	24.9%
Rhyl Flats	Wales	Siemens	Innogy	90.0	24.95%	22.5	Jul-09	Mar-13	1.5	35.7%
Screggagh	N Ireland	Nordex	Energia	20.0	100%	20.0	May-11	Jun-16	1.0	27.5%
Sixpenny Wood	England	Senvion	Statkraft	20.5	51.6%	10.6	Jul-13	Aug-14	1.0	31.1%
Slieve Divena	N Ireland	Nordex	SSE	30	100%	30	Mar-09	Aug-17	1.0	22.5%
Stroupster	Scotland	Enercon	вт	29.9	100.0%	29.9	Oct-15	Nov-15	0.9	37.4%
Tappaghan	N Ireland	GE	SSE	28.5	100%	28.5	Jan-05 <sup>(3)</sup>	Mar-13	1.0	29.4%
Yelvertoft	England	Senvion	Statkraft	16.4	51.6%	8.5	Jul-13	Aug-14	1.0	28.7%
Total						693.7				

Notes: (1) Net MW represents the Group ownership stake in the total MW capacity of the underlying wind farm; (2) Forecast net load factor is the expected output of the wind farm divided by the theoretical maximum output over a calendar year (as a %). Forecast net load factors are net of each wind farm's availability assumption. Forecast net load factors are P50 estimates (50% probability of output exceeding estimate) based on operational data (>1 year of operations) or modeled assumptions (<1 year of operations); (3) Tappaghan extension (9MW) commissioned in June 2009

# Langhope Rig, Bishopthorpe, North Hoyle, Slieve Divena



Slieve Divena – 30MW (100%)

- Same Nordex 2.5MW turbines and technicians as Screggagh (20 miles away)
- JP Morgan AM selling its only Northern Irish wind farm
- Limited process

Langhope Rig – 16MW (100%)

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- Similar GE turbines to Bin Mountain and Tappaghan
  - GE recycling capital after turbine supply contract and construction
- Bilateral transaction

North Hoyle – 60MW (100%)

- Same service base and OMA services provider as Rhyl Flats
- JP Morgan AM selling its only offshore wind farm
- Previously owned by Stephen and project financed by Laurence
- Limited process

 Same Senvion 2.05MW turbines as Cotton Farm,

> Earls Hall Farm, Sixpenny Wood and Yelvertoft

Bishopthorpe – 16.4MW (100%)

- 5<sup>th</sup> wind farm bought from BayWa
- Early exclusivity

#### Limited processes and execution certainty

## **Simple Capital Structure**









Impact on NAV

The base case portfolio discount rate is 7.7% (unlevered). A variance of +/- 0.5 per cent. is considered to be a reasonable range of alternative assumptions for discount rate.

Base case energy yield assumptions are P50 (50 per cent. probability of exceedance) forecasts produced by expert consultants based on long term wind data and operational history. The P90 (90 per cent. probability of exceedance over a 10 year period) and P10 (10 per cent. probability of exceedance over a 10 year period) sensitivities reflect the future variability of wind and the uncertainty associated with the long term data source being representative of the long term mean. Given their basis on long term operating data, it is not anticipated that base case energy yield assumptions will be adjusted (other than any wind energy true-ups with compensating purchase price adjustments).

Long term power price forecasts are provided by a leading market consultant, updated quarterly and adjusted by the Investment Manager where more conservative assumptions are considered appropriate. Base case real power prices increase from approximately £45/MWh (2018) to approximately £55/MWh (2043). The sensitivity below assumes a 10 per cent. increase or decrease in power prices relative to the base case for every year of the asset life, which is relatively extreme (a 10 per cent. variation in short term power prices, as reflected by the forward curve, would have a much lesser effect).

The base case long term RPI assumption is 2.75 per cent. (0.75 per cent. above the long term 2.0 per cent. CPI target).



#### **Important Information**

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