# MEET THE MANAGEMENT

DONG Energy

2 February 2017





**DISCLAIMER.** Certain statements in this presentation are based on the beliefs of our management as well as assumptions made by and information currently available to the management. Forward-looking statements (other than statements of historical fact) regarding our future results of operations, financial condition, cash flows, business strategy, plans and future objectives can generally be identified by terminology such as "targets", "believes", "expects", "aims", "intends", "plans", "seeks", "will", "may", "anticipates", "continues" or similar expressions.

These statements are not guarantees of future performance and involve certain risks and uncertainties. Therefore, actual future results and trends may differ materially from what is forecast in this financial report due to a variety of factors, including, but not limited to, changes in temperature and precipitation levels; the development in oil, gas, electricity, coal,  $CO_2$ , currency and interest rate markets; changes in legislation, regulation or standards; renegotiation of contracts; changes in the competitive environment in DONG Energy's markets; and security of supply.

We urge you to read our annual report available on our website at www.dongenergy.com for a discussion of some of the factors that could affect our future performance and the industry in which we operate.

Should one or more of these risks or uncertainties materialise or should any underlying assumptions prove to be incorrect, our actual financial condition or results of operations could materially differ from that described herein as anticipated, believed, estimated or expected.

# Agenda

page	5
page	5
page	25
page	57
egy Officer page	105
page	123
page	141
	PC page perations page



# STRATEGIC PROGRESS

Henrik Poulsen, CEO

Meet the Management, 2 February 2017

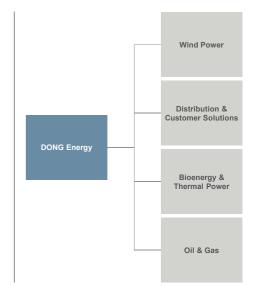




### **Henrik Poulsen**

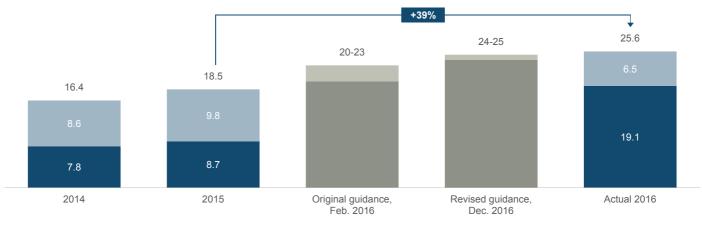
President and Chief Executive Officer

- Joined DONG Energy in 2012
- Prior to DONG Energy, Henrik was President and CEO of TDC (also at the time of IPO) and, before that, Operating Executive at KKR and EVP, Markets & Products, at LEGO
- Education: M.Sc., Aarhus School of Business



# Strong profit performance in 2016

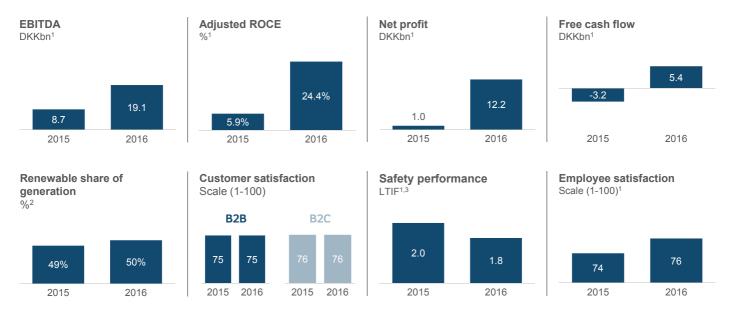
### EBITDA, DKKbn



Oil & Gas Continuing operations



### 2016 was a very good year



1. Continuing operations 2. Renewables as share of total generated power and heat 3. # of lost-time injuries within a given accounting period relative to the total # of million hours worked in the same accounting period

## Strong progress on strategic agenda in 2016



### **2016 Wind Power milestones**



Borssele 1&2 tender win/FID

Burbo Bank Ext. 50% farm down

8 MW turbine deployment

1 GW US project rights

Taiwan office inauguration

Borkum Riffgrund 2 FID

2020 target - on track towards 6.7 GW

ш.

5

50 50

Race Bank 50% farm down

Gode Wind 1&2 commissioning

Hornsea 2 development consent

**Eversource JV** 



### Strong progress on strategic agenda in 2016



2016 Utility milestones



REnescience Northwich plant FID

Supplier-centric model implemented



Gas distribution assets divested

DKK 4.3bn from renegotiated gas contracts



Studstrup CHP biomass converted



### Strong progress on strategic agenda in 2016



2016 Oil & Gas milestones



Successfully restructured Oil & Gas business Reduced total cash spend by 38% vs. 2015



First gas from Laggan-Tormore



\$

Terminated Hejre in its original form



Divested Trym, Ula, Tambar and Oselvar fields



Decided to initiate Oil & Gas exit process



# Oil & Gas exit process on track



Exit process going as planned

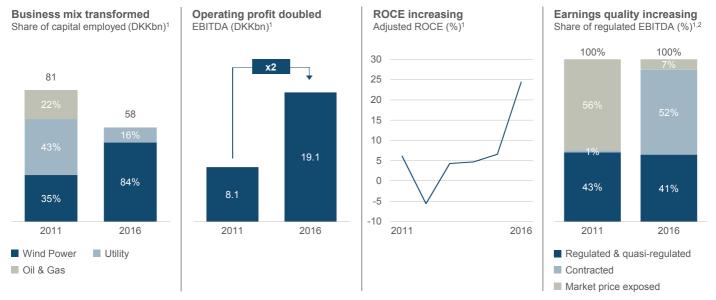
Potential scenarios

- Instant liquidity
- Path to liquidity

Shareholder value and access to liquidity are the key evaluation criteria

Expect to complete transaction in 2017

# DONG Energy is continuously optimising the portfolio



1. Continuing operations

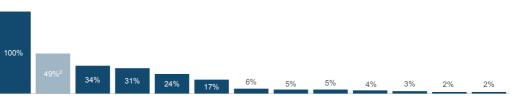
2. Excluding one-offs and Gas Distribution EBITDA

**DONG** energy

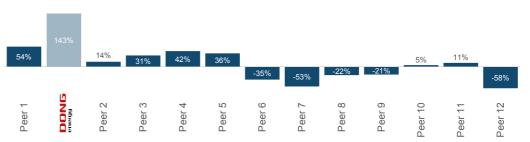
# Early shift towards renewables drives strong shareholder returns



2015 generation from new renewables in % of total power generation<sup>1</sup>



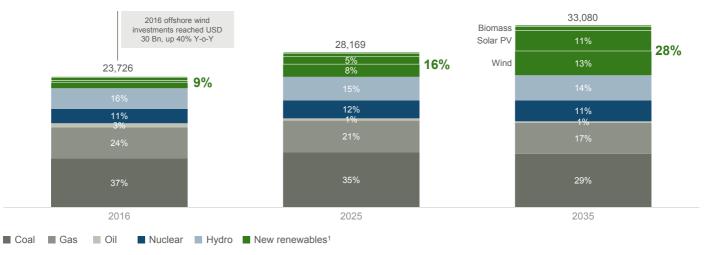
Total shareholder return, (29 Nov 2013 to 31 Jan 2017)



Source: FactSet, Company reports and other publicly available information. Peer group is composed of the largest listed European energy companies 1. New renewables include onshore wind, offshore wind, solar PV, and bioenergy 2. Renewables as share of total generated power and heat

## Significant momentum behind move to green energy

#### Global power generation (TWh)



Source: BNEF, BNEF NEO (2016). 1. Includes wind, solar PV, biomass and other renewables



# DONG Energy's strategic direction remains clear

### Group

- Lead the market in the transition to sustainable energy
- Compete from market leading positions and grow through innovation
- Leverage existing strongholds and build long-term growth options



Fuel global market leadership and profitable growth – ambition of 11-12 GW capacity by end of 2025

### Utility



Transform Utility to a smart, green and growing business

Oil & Gas

 $\bigotimes^{\diamond}$ 

Drive value and strength of Oil & Gas and prepare for new ownership

## **Return targets extended towards 2023**

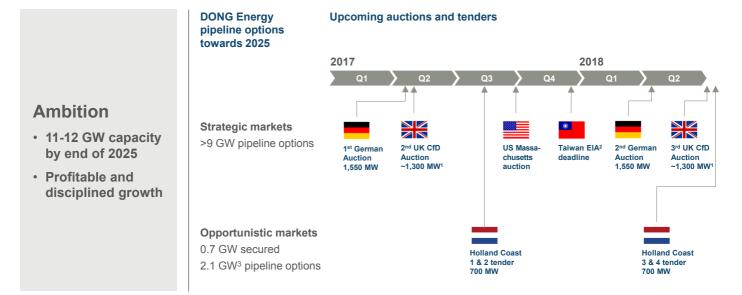


# Average ROCE target 2017-2023 13-15% 12-14% 9-11% Group Wind Power **Distribution & Customer Solutions**

17



### Significant pipeline of post 2020 opportunities



Source: BNEF; Netherlands Enterprise Agency 1. In 2016 the UK government announced CfD auctions of up to GBP 730m for up to 4 GW of offshore wind to be executed over three auctions by 2020. Exact capacity to be allocated in each round is uncertain. The UK government has committed to up to three auctions in this parliamentary period. However a firm date has only been communicated for the 2017 auction. 2. Environmental Impact Assessment. 3 The Dutch government has proposed in its Energy Agenda to continue offshore wind tendering with 1 GW annually in 2020-2025, hence additional opportunities may arise

# DONG Energy well positioned in competitive offshore wind market

156 145 124 122 102 78 68 68 Borkum Homs Borssele Kriegers Borssele Walney Race East Extension Bank Anglia Riffarund 2 Rev 3 1&2 Flak 3&4 UK 2015 UK 2015 DE 2015 DK 2015 NL 2016 DK 2016 NL 2016 UK 2014

DONG Energy competes from a strong position

- Most capacity installed with 3.6 GW completed
- Largest operator with >1,000 turbines in operation
- · Largest pipeline of projects under construction
- Solid track-record in delivering large and complex projects
- · Digitalised core processes
- ~2,000 FTEs<sup>2</sup> with expertise and experience along the entire value chain
- Strong proven cost reduction trajectory across realized projects

Sources: DECC; Danish Energy Agency; Energinet.dk; NEV 1. Levelised revenue (price) of electricity over the lifetime of the project used as proxy for the levelised costs to society. It consists of a subsidy income on top of market prices for the first years and a pure market income for the remaining years of the 25 years lifetime. Discount rate of 3.5% used to reflect society's discount rate. Market income based on country specific public wholesale market price projections at the time of contracting. For comparability across projects a generic scope adjustment (incl. transmission and extra project development costs) has been applied. 2. Excluding CT Offshore and A2SEA as of January 2017

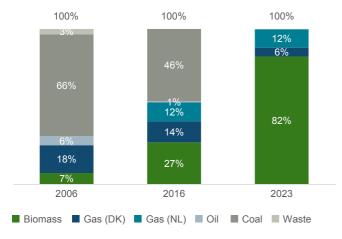


Offshore wind cost (EUR/MWh)<sup>1</sup>

### **Bioenergy & Thermal Power on track towards zero coal**

# Biomass conversions well under way to support zero coal from 2023

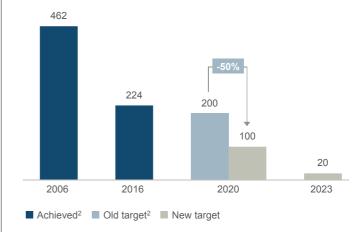
DONG Energy fuel composition (%)<sup>1</sup>



1. Ability to use coal retained in case of force majeure. 2. New calculation method for calculating  $\rm CO_2$  emissions introduced in 2016. Achieved emissions have been rebased using new method

# Continued decarbonisation of portfolio with new ambitious target

Carbon emissions from heat and power generation (CO2e g/kWh)



## Targeted key milestones in 2017

### Wind Power

- Commissioning of Burbo Bank Extension
- German auction
- UK auction
- · Massachusetts auction

- · Walney Extension farm down
- Taiwan EIAs<sup>1</sup>
- First power on Race Bank
- First power on Walney Extension

# Utility

- Commissioning of Skærbæk conversion
- Commissioning of first REnescience plant
- Smart meter roll-out

# Oil & Gas Å

Oil & Gas transaction

1. Environmental Impact Assessment



### **Our mission**



"To develop and enable energy systems that are green, independent and economically viable"



# FINANCIAL PERFORMANCE

AND IT LIBIT

Marianne Wiinholt, CFO

MARINE FURTHER FORMATION OF THE STATES OF TH

25

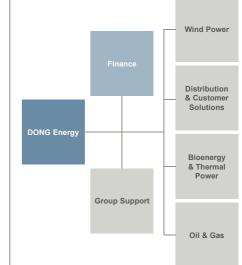
Meet the Management, 2 February 2017

DONG

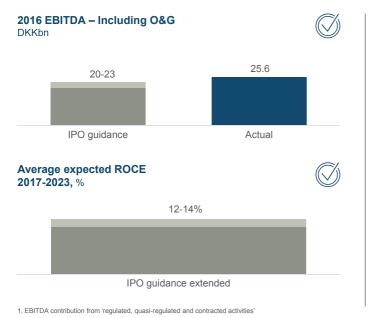


### Marianne Wiinholt Chief Financial Officer

- Joined DONG Energy in 2004
- Prior to assuming position as CFO, Marianne was CFO of Distribution & Customer Solutions and, before that, Head of Corporate Finance at DONG Energy
- Previously at Arthur Andersen, Borealis
- Education: M.Sc., Copenhagen Business School



## We are delivering on our IPO guidance





energy

## Strong Q4 with EBITDA up 224%

### Financial highlights Q4

#### EBITDA - continuing operations

- · Race Bank farm down gain of DKK 2.5bn
- · Higher activity relating to construction contracts for partners re. Burbo Bank Ext.
- · Renegotiation of additional long-term gas purchase contract

#### Net profit - discontinued operations

- · Net loss from discontinued operations of DKK 0.5bn
- Net profit in Q4 2015 negatively affected by impairment losses of DKK 14.8bn
   after tax
- Underlying result DKK 0.3bn lower than Q4 2015

#### Total net profit

- · Total net profit of DKK 3.5bn
- Net profit in Q4 2015 negatively affected by impairment losses of DKK 17.0bn (DKK 15.8bn after tax)
- Underlying increase primarily due to the higher EBITDA

#### Free cash flow - continuing operations

- · Higher paid tax
- · Funds tied up in clearing accounts
- Q4 2015 was positively affected by cash inflow from milestone payments re. the construction of offshore wind farms for co-investors
- · Partly offset by higher EBITDA

PERFORMANCE HIGHLIGHTS	Q4 16	Q4 15	Δ
EBITDA DKKm	6,310	1,947	224%
Wind Power	5,054	1,693	199%
Bioenergy & Thermal Power	115	-118	n.a.
Distribution & Customer Solutions	1,243	362	243%
Net profit - continuing operations	3,988	-315	n.a.
Net profit – discontinued operations	-473	-15,004	-97%
Total net profit	3,515	-15,319	n.a.
Operating cash flow	1,752	4,463	-61%
Gross investments	-4,732	-2,734	73%
Divestments	5,013	1,624	209%
Free cash flow – continuing operations	2,033	3,353	-39%
Net interest-bearing debt	3,460	9,193	-62%
FFO/Adjusted net debt %	80.5	28.7	52%p
Adj. ROCE (last 12 months and excl. write-downs) %	24.4	5.9	18%p

## 2016 – Strong profit performance

### **Financial highlights FY**

#### EBITDA - continuing operations

- Farm down gains from Burbo Bank Ext. and Race Bank (DKK 3.0bn)
- · Higher activity relating to construction contracts for partners
- Lump sum payments from renegotiation of long-term gas purchase contracts of DKK 4.3bn in 2016

#### Underlying EBITDA<sup>1</sup> – continuing operations

 Very strong development in the underlying business driven by a 93% growth in Wind Power

#### Net profit - discontinued operations

- Net profit in 2015 negatively affected by impairment losses of DKK 14.8bn after tax
- · Underlying result DKK 0.7bn below 2015 mainly due to lower production

#### Total net profit

- Higher EBITDA
- · Gain from divestment of Danish gas distribution grid of DKK 1.2bn
- Net profit in 2015 negatively affected by impairment losses of DKK 17.0bn (DKK 15.8bn after tax)

1. Underlying EBITDA adjustments: Lump sum payments from renegotiations, divestment of Danish gas distribution grid, and compensations in BTP from a settled dispute and insurance compensation in 2015

PERFORMANCE HIGHLIGHTS	FY 16	FY 15	Δ
EBITDA DKKm	19,109	8,730	119%
Wind Power	11,867	6,151	93%
Bioenergy & Thermal Power	100	283	-65%
Distribution & Customer Solutions	7,108	2,173	227%
Net profit - continuing operations	12,161	967	1,158%
Net profit – discontinued operations	1,052	-13,051	n.a.
Total net profit	13,213	-12,084	n.a.
Operating cash flow	11,272	7,521	50%
Gross investments	-14,960	-12,709	18%
Divestments	9,055	1,982	357%
Free cash flow – continuing operations	5,367	-3,206	n.a.
Net interest-bearing debt	3,461	9,193	-62%
FFO/Adjusted net debt %	80.5	28.7	52%p
Adj. ROCE (last 12 months and excl. write-downs) %	24.4	5.9	18%p



## 2016 – Improvement in all financial metrics

### **Financial highlights FY**

#### Free cash flow - Continuing operations

- Higher EBITDA
- Higher divestment proceeds, primarily Burbo Bank Ext., Race Bank and the Danish gas distribution grid
- Partly offset by more funds tied up in clearing accounts and in the construction of offshore transmission assets

#### Net interest-bearing debt

 On top of the positive free cash flow, positive effect from exchange rate adjustments of GBP loans

#### FFO/Adjusted net debt

· Credit metric significantly above our target of around 30%

#### Adjusted ROCE<sup>1</sup>

- · Increase of 18%-points, primarily due to the higher EBIT
- ROCE of 17% in 2016 when excluding the contribution from lump sum payments

1. ROCE: Last 12 months and excl. write-downs, continuing operations

PERFORMANCE HIGHLIGHTS	FY 16	FY 15	Δ
EBITDA DKKm	19,109	8,730	119%
Wind Power	11,867	6,151	93%
Bioenergy & Thermal Power	100	283	-65%
Distribution & Customer Solutions	7,108	2,173	227%
Net profit - continuing operations	12,161	967	1,158%
Net profit – discontinued operations	1,052	-13,051	n.a.
Total net profit	13,213	-12,084	n.a.
Operating cash flow	11,272	7,521	50%
Gross investments	-14,960	-12,709	18%
Divestments	9,055	1,982	357%
Free cash flow – continuing operations	5,367	-3,206	n.a.
Net interest-bearing debt	3,460	9,193	-62%
FFO/Adjusted net debt %	80.5	28.7	52%p
Adj. ROCE (last 12 months and excl. write-downs) %	24.4	5.9	18%p

# WP Q4 2016 – EBITDA tripled



### **Financial highlights Q4**

#### EBITDA

- Race Bank farm down gain of DKK 2.5bn
- Higher activity related to construction contracts for partners, mainly Burbo Bank Ext.

#### Power generation

 Production ramp up from new wind farms partly offset by low WEC (108% in Q4 2016 versus 123% in Q4 2015)

FINANCIAL HIGHLIGHTS		Q4 16	Q4 15	Δ
EBITDA	DKKm	5,054	1,693	199%
Sites incl. O&Ms and PPAs		1,899	1,866	2%
Construction contracts and farm down gains		3,309	-89	n.a.
Other incl. A2SEA and projection development	ect	-154	-84	83%
Adjusted ROCE (LTM)	%	16.5	6.9	10%p
KEY BUSINESS DRIVERS				
Power generation	TWh	1.8	1.5	20%
Wind energy content	%	108	123	-15%p
Load factor	%	49	50	-1%p
Availability	%	94	90	4%p
Installed capacity	GW	3.6	3.0	19%
Production capacity	GW	2.0	1.7	17%





# WP 2016 – EBITDA at DKK 11.9bn, the high end of the guided range

### **Financial highlights FY**

#### **Power generation**

- New production capacity from Westermost Rough, Borkum Riffgrund 1 and to some extent Gode Wind 1&2
- Low WEC (93% in 2016 vs. 103% in 2015)

#### EBITDA

- Sites: Earnings from new production capacity more than offset by low WEC
- Construction contracts: Farm down gains of DKK 3.0bn and construction gains relating to Gode Wind 1&2 and Burbo Bank Ext.
- Other: Higher project development cost for post-2020 pipeline and lower A2SEA result

#### Free cash flow

• Continued high investment level to a large extent funded by cash flow from operating wind farms and farm downs

#### Adjusted ROCE<sup>1</sup>

· Increase in EBITDA more than outweighs increase in capital employed

1. ROCE: Last 12 months and excl. write-downs

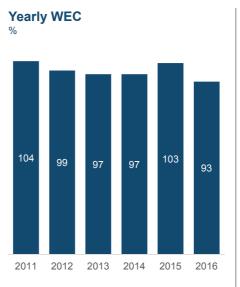
FINANCIAL HIGHLIGHTS		FY 16	FY 15	Δ
EBITDA	DKKm	11,867	6,151	93%
Sites incl. O&Ms and PPAs		5,869	5,965	-2%
Construction contracts and farm down gains		7,012	751	834%
Other incl. A2SEA and project development		-1,014	-565	79%
Adjusted ROCE (LTM)	%	16.5	6.9	10%p
KEY BUSINESS DRIVERS				
Power generation	TWh	6.0	5.8	5%
Wind energy content	%	93	103	-10%p
Load factor	%	41	45	-4%p
Availability	%	92	93	-1%p
Installed capacity	GW	3.6	3.0	19%
Production capacity	GW	2.0	1.7	17%

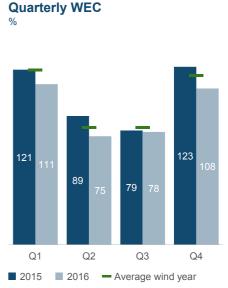
### Low wind energy content – also in Q4



### Key commentary

- Full year 2016 WEC was below the range observed during the last 5 years (2011-2015) of 97-104
- FY 2016 WEC at 93%, 10%-points lower than FY 2015
- At Q3 we guided full year WEC at around 96, based on the expectation of normal Q4 2016. Very low wind in November and December
- Q4 2016 WEC at 108%, 15%-point lower than Q4 2015
- Full year wind energy content (WEC) from 2011 to 2015 fluctuated with +/- 4%-points on an average wind year for DONG Energy's portfolio







## **BTP** – Results in line with expectations



### Financial highlights Q4

### EBITDA

- Power generation up 20% due to better spreads and lower generation from hydro and wind
- · Heat generation up 7% due to colder weather

#### Free cash flow

- Positive contribution in 2015 from an intra-group settlement of tax for 2014
- Partly offset by the higher EBITDA

### Financial highlights FY

### EBITDA

- One-off gains in 2015 of DKK 0.5bn
- Underlying EBITDA from 'Power business' increased due to the improved spreads

#### Free cash flow

- Lower EBITDA
- Interest received in 2015 from dispute concerning  $\mbox{CO}_{\rm 2}$  emissions allowances
- Higher positive contribution in 2015 from intra-group settlement of tax

FINANCIAL HIGHLIG	HTS	Q4 16	Q4 15	Δ	FY 16	FY 15	Δ
EBITDA	DKKm	115	-118	n.a.	100	283	-65%
• Heat		172	100	72%	407	346	18%
Ancillary services		89	63	41%	300	383	-22%
Power		-146	-281	-48%	-607	-446	36%
Free cash flow		299	852	-54%	-635	1,554	n.a.
KEY BUSINESS DR	KEY BUSINESS DRIVERS						
Heat generation	TWh	3.1	2.9	7%	9.2	9.3	-2%
Power generation	TWh	3.0	2.5	20%	8.4	7.1	18%
Degree days	#	962	781	23%	2,715	2,621	4%
Power price, DK	EUR/MWh	34.6	23.8	45%	28.0	23.7	18%
Green dark spread, D	K EUR/MWh	0.7	-1.0	n.a.	3.4	-1.9	n.a.

# DCS – Strong contribution from renegotiations

### Financial highlights Q4

#### EBITDA

- Lump sum from renegotiation of additional long-term gas purchase contract of DKK 0.4bn
- · Improved margins in the wholesale gas business

#### Free cash flow

• EBITDA increase offset by more funds tied up in working capital, mainly clearing accounts as a result of higher oil and gas prices

### Financial highlights FY

#### EBITDA

- Lump sums from renegotiation of long-term gas purchase contracts of DKK 4.3bn
- · Higher earnings from the trading and portfolio optimisation business
- · Positive gas storage valuation effect due to higher gas prices
- Distribution earnings on par with 2016
- · Sales negatively impacted by implementation of supplier centric model

#### Adjusted ROCE<sup>1</sup>

- Higher EBITDA
- ROCE of 24% in 2016 when excluding the contribution from lump sum payments

FINANCIAL HIGHLIG	HTS	Q4 16	Q4 15	Δ	FY 16	FY 15	Δ
EBITDA	DKKm	1,243	362	243%	7,108	2,173	227%
<ul> <li>Distribution*</li> </ul>		223	261	-16%	1,602	1,661	-4%
Sales		-71	36	n.a.	-15	160	n.a.
Markets		1,131	110	928%	5,766	740	679%
• LNG		-40	-45	-11%	-245	-388	-37%
Adjusted ROCE (LTN	Adjusted ROCE (LTM) %		11.5	64%p	75.8	11.5	64%p
KEY BUSINESS DRI	KEY BUSINESS DRIVERS						
RAB Power	DKKm	10,648	10,778	-1%	10,648	10,778	-1%
Gas sales	TWh	36.1	36.2	0%	150.4	159.1	-5%
Power sales	TWh	9.2	9.9	-7%	36.7	35.5	4%
Distribution of power	TWh	2.3	2.3	0%	8.5	8.4	1%

\* Gas distribution EBITDA: FY/9M 2016 DKK 385m ; Q4 2015 DKK 9m ; FY 2015 DKK 361m



1. ROCE: Last 12 months and excl. write-downs

# **O&G** – Discontinued operations – Strong operational performance

### Financial highlights Q4

### EBITDA

- · Strong operational performance across the portfolio
- · Lower exploration costs
- Positive effect in 2015 from additional Ormen Lange catch-up volumes

### Free cash flow

Lower operating cash flow, as the higher EBITDA is more than offset by increased funds tied up in working capital

### **Financial highlights FY**

### EBITDA

- Lower gas production, primarily loss of additional Ormen Lange catch-up volumes (DKK 2.5bn in 2015) and natural decline in production
- · Gas prices declined 37%, only partly offset by hedging (after tax basis)
- One-offs in 2015 contributing with DKK 1.2bn
- Significantly lower costs including exploration

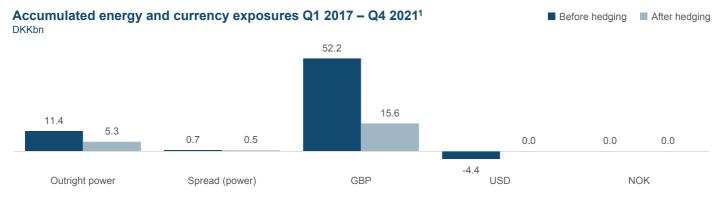
### Free cash flow

- Total cash spend down by 38%
- · Overperformance vs. IPO guidance mainly due to cost/capex reductions

FINANCIAL HIGHLI	IGHTS	Q4 16	Q4 15	Δ	FY 16	FY 15	Δ
EBITDA	DKKm	2,140	1,700	26%	6,507	9,754	-33%
Denmark		262	-108	n.a.	-145	1,345	n.a.
Norway		1,023	1,804	-43%	3,407	7,358	-54%
United Kingdom		344	-29	n.a.	773	262	195%
• Exploration and a	oppraisal	-302	-614	-51%	-522	-868	-40%
Hedges		813	647	26%	2,994	1,657	81%
Free cash flow		1,020	1,269	-20%	1,106	656	69%
KEY BUSINESS DRIVERS							
Oil production	BOEm	2.5	2.4	4%	9.7	10.1	-4%
Gas production	BOEm	6.5	9.2	-29%	26.9	30.8	-13%
Oil price, Brent	USD/boe	49	44	11%	44	52	-15%
Gas price, NBP	EUR/MWh	18	17	6%	14	20	-29%
Lifting costs	USD/boe	6.6	8.2	-20%	6.4	7.3	-12%

 $\frac{\circ}{\boxtimes}$ 

# Hedging of energy prices and FX (continuing operations)



- The power exposure is almost fully hedged in 2017-2018, and significantly hedged in 2019
- · The vast majority of the power hedges relate to Wind Power
- · Limited power spread exposure from BTP

- GBP exposure is almost fully hedged for 2017-2018, and significantly hedged for 2019
- · Expected proceeds from Walney Ext. farm down is fully hedged
- GBP hedged at 9.4 DKK/GBP for 2017, 9.2 DKK/GBP for 2018 and 8.9 DKK/GBP for 2019
- Removal of O&G has changed the long USD exposure to a short USD exposure, and the NOK exposure is reduced to zero

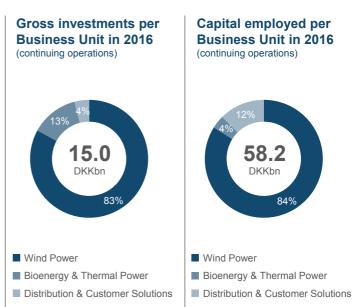


Exposure is calculated as the expected production multiplied by the forward prices per 31 December 2016.
 Exposures consist of cash flows from production with known sales- and purchase prices, investments, divestments, and the value of hedged energy contracts, all multiplied by the forward prices per 31 December 2016

# Low year-end net debt of DKK 3.5bn

#### DKKbn 15.0 9.2 3.5 9.1 0.4 11.3 Net interest- Cash from Net interest-Gross Divestments Other bearing debt, operating investments bearing debt, end of 2015 activities end of 2016

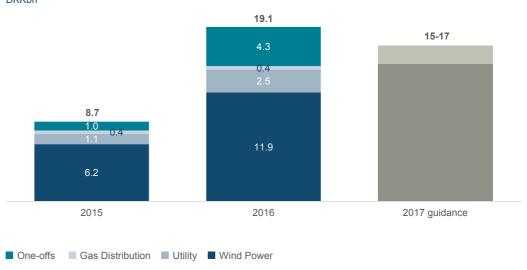
Net interest-bearing debt development in 2016



# Step down in reported operating profit in 2017 due to one-offs



EBITDA – Continuing operations

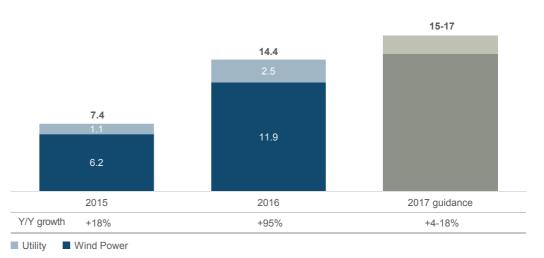




# Strong underlying profit growth continues



## Underlying EBITDA<sup>1</sup> – Continuing operations



1. Underlying EBITDA adjustments: Lump sum payments from renegotiations, divestment of Danish gas distribution grid, and compensations in BTP from a settled dispute and insurance compensation in 2015

# Financial outlook 2017

#### EBITDA in 2017 of DKK 15-17bn – Long-term ROCE extended – Free Cash Flow target reiterated

#### EBITDA (BUSINESS PERFORMANCE) OUTLOOK 2017

DKK 15-17bn BUSINESS UNIT EBITDA DIRECTION FY 2017 VS. FY 2016 Wind Power Higher **Bioenergy & Thermal Power** Higher **Distribution & Customer Solutions** Significantly lower (Significantly lower underlying)

#### **GROSS INVESTMENT OUTLOOK 2017**

Group

Group

DKK 18-20bn

#### **RETURN ON CAPITAL EMPLOYED (ROCE)**

Group	12-14%	Avg. 2017-2023	
Wind Power	13-15%	Avg. 2017-2023	
Distribution & Customer Solutions	9-11%	Avg. 2017-2023	
FREE CASH FLOW			
Bioenergy & Thermal Power	Positive	2018	
FINANCIAL POLICIES			
Rating (Moody's/S&P/Fitch)	Mir	ı. Baa1/BBB+/BBB+	
FFO/Adjusted net debt		Around 30%	
DIVIDEND POLICY			

- We expect to pay a dividend of DKK 2.5 billion for FY 2016 in 2017
- · For subsequent years towards 2020, our target is to increase the dividend annually by a high single digit rate compared to the dividend for the previous year
- · Dividend policy is subject to our commitment to maintain a Baa1/BBB+ rating profile

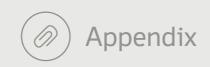


## **Capital structure**



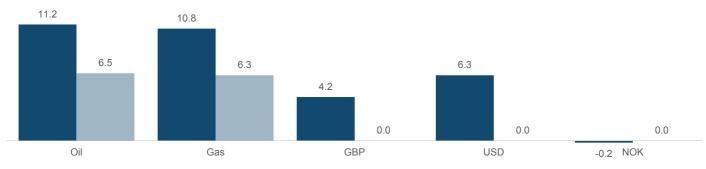
- Within the next couple of years we will likely have excess investment capacity compared to the target rating of BBB+/Baa1 (assuming the current build outplan and farm down strategy in Wind Power and the current dividend policy)
- We will utilise the investment capacity to pursue value creating investment opportunities
- Reducing our farm down activities may be an alternative or supplement to new investment opportunities in order to balance the capital structure while maintaining current rating
- If value creating investment opportunities do not absorb the excess investment capacity we will remain disciplined and return cash to shareholders





# Hedging of energy prices and FX (discontinued operations)

#### Accumulated energy and currency exposures Q1 17 – Q4 2021<sup>1</sup> (DKKbn)



Before hedging

- · Significant long exposure on both gas and oil are now labelled discontinued
- · Hedging of the price risk continuous until time of divestment to secure the coming sales profit
- All FX exposure related to hedging of energy in O&G has been fully hedged

<sup>1.</sup> Exposure is calculated as the expected production multiplied by the forward prices per 31 December 2016. Exposures consist of cash flows from production with known sales- and purchase prices, investments, divestments, and the value of hedged energy contracts, all multiplied by the forward prices per 31 December 2016



# Differences in Business Performance EBITDA and IFRS EBITDA



DKKm		FY 2016	FY 2015
EBITDA – BUSINESS PERFOR	RMANCE (BP)	19,109	8,730
BP adjustment in respect of rev	-3,808	1,264	
BP adjustment in respect of CC	1,638	-106	
EBITDA – IFRS	16,939	9,888	
TOTAL BP ADJUSTMENTS FO	OR THE YEAR COMPRISE:		
MtM of financial and physical he	-1,397	1,632	
Reversal of deferred gain (loss) previous periods, where the her in BP EBITDA for this period	-773	-474	
TOTAL ADJUSTMENTS		-2,170	1,158
SPECIFICATION OF BP MTM OF HEDGING CONTRAC		REVERS	AL OF

ADJUSTMENTS,	RELATING TO O		REVERSAL OF DEFERRED GAIN (LOSS)		
DKKm	FY 2016	FY 2015	FY 2016	FY 2015	
Oil hedge	267	-930	1,654	1,896	
Gas hedge (commercial and hedge)	-735	806	-1,539	-1,367	
Power hedge(commercial and hedge)	-2,160	1,790	-424	-701	
Coal hedge	75	-189	151	254	
Currency hedge	1,156	155	-615	-556	
TOTAL	-1,397	1,632	-773	-474	

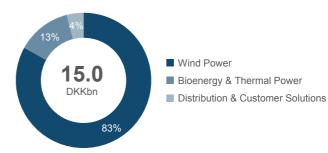
## Investments

#### Investments in FY 2016 (DKKm)

CASH FLOW FROM INVESTING ACTIVITIES	-1,060
Dividends received and capital reduction, reversal	-22
Purchase and sale of securities, reversed	-4,564
Sale of assets and companies reversed	-9,104
Loans to associates and JVs, reversed	-210
GROSS INVESTMENTS	-14,961
Sale of non-current assets	9,104
Other	-50
NET INVESTMENTS <sup>1</sup>	-5,907

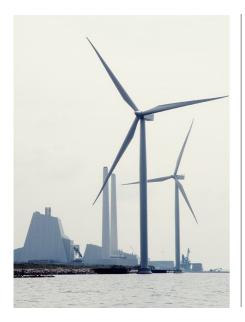
1. Net investments are defined as the effect on DONG Energy's net debt from investments and acquisitions and disposals of enterprises

#### Gross investments per Business Unit in FY 2016





# **Financing strategy**



We have a centralised financing strategy as customary for vertically and horizontally integrated European energy utilities

The centralised financing strategy was adopted in 2003 to benefit from our heritage as state owned energy monopoly offering:

- A capital structure supportive of it's BBB+ rating ambition
- Concentration of and scale in financing activities
- Cost efficient financing based on a strong parent rating
- Optimal terms and conditions and uniform documentation
- · Transparent debt structure and simplicity
- Avoidance of structural subordination

All cash flow generated by our subsidiaries supports the creditworthiness and rating of and thus the debt taken up by the Group parent

The financing strategy optimizes the effect of a fully integrated group cash pool where cash at practically all of the Group's more than 150 subsidiaries are made available for the group's financing and liquidity purposes

Financing of activities at subsidiary level is provided by the Group parent in a standardised and cost efficient set-up involving very few resources at Business Unit and Group level

Widespread use of project financing is not considered cost-efficient and dilutes the creditworthiness of the Group parent

# **Currency hedging principles**



- The purpose of our currency risk management is to reduce the Group's currency risks over a 5-year horizon
- The main principle is to hedge FX exposure once it is deemed relatively certain that the underlying cash flows in foreign currency will materialise
- Thus, FX risk is hedged concurrently with the hedging of energy price risk
- FX risk related to divestments and investments are hedged once the amount is relatively certain
- Hedging of ROC and CfD income deviates from main principle and follows a staircase model (see next page). GBP therefore constitutes a strategic risk
- Management of currency risks is centralised at DONG Energy to obtain netting advantages



## Hedging of FX and power risk in Wind Power

#### Construction and Farm downs – Hedging of FX

#### Decision gates



#### Commercial Operations – Hedging of FX and power



Rolling operational hedging process on monthly/quarterly basis:

- · ROC/CfD hedges are target hedge ratio
- The power hedge ratio is a minimum requirement, and power related FX exposures are included in FX exposures and hedged when the underlying power price is hedged

# FFO/Adjusted net debt calculation

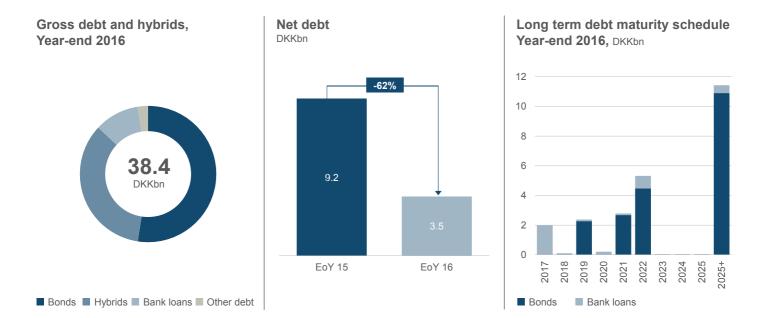
FFO/ADJUSTED NET DEBT	FY 2016	FY 2015
EBITDA	19,109	8,730
Adjusted net interest expenses	-1,662	-1,441
- Interest expenses, net	-402	-294
- Reversal of interest expenses transferred to assets	-574	-378
- Interest element of decommission obligations	-172	-167
- 50% of coupon payments on hybrid capital	-320	-411
- Operating lease obligations, interest element	-194	-191
Reversal of recognised lease payment	746	722
Current tax	-3,665	-697
FUNDS FROM OPERATION (FFO)	14,528	7,314
A	0.404	0.400
Accounting net debt	3,461	9,193
50% of hybrid capital	6,624	6,624
Cash and securities, not available for distribution	953	2,866
Present value of operating lease payments	3,986	4,051
Decommission obligations	3,649	3,436
Deferred tax on decommissioning obligations	-626	-665
ADJUSTED INTEREST-BEARING NET DEBT	18,047	25,505
FFO/ADJUSTED NET DEBT	80.5%	28.7%

#### Note:

Following the initiated sales process of the O&G business and the fact that O&G is presented as asset held for sale and discontinued operations, FFO/Adjusted net debt figures are now calculated excluding O&G in the numerator. The denominator is based on the Group's total NIBD







# Hybrid capital in short

Hybrid capital can broadly be defined as funding instruments that combine features of debt and equity in a cost efficient manner

- Hybrid capital encompasses the credit supportive features of equity and improves rating ratios:
- Perpetual or long-dated final maturity (1,000 years for DONG Energy)
- Absolute discretion to defer interest payments and such deferrals do not constitute default nor trigger cross-default

- Deeply subordinated and only senior to common equity
- Without being dilutive to equity holders (no ownership and voting rights, no right to dividend)

Due to hybrid's equity like features, rating agencies assign equity content to the hybrids when calculating central rating ratios (eg. FFO/NIBD)

The hybrid capital has increased DONG Energy's investment capacity and supports the growth strategy and rating target DONG Energy has made use of hybrid capital to maintain our ratings at target level in connection with the merger with Danish power distribution and production companies back in 2006 and in recent years to support our growth in the offshore wind sector

Currently, DONG Energy has fully utilised it's capacity to issue hybrids (S&P has the strictest limit of 15% of total capitalisation)

HYBRIDS ISSUED BY DONG ENERGY A/S*	PRINCIPAL AMOUNT	ТҮРЕ	FIRST PAR CALL	COUPON	ACCOUNTING TREATMENT**	TAX TREATMENT	RATING TREATMENT
4.875% hybrid due 3013	EUR 500m	Hybrid capital (subordinated)	July 2018	Fixed during the first 5 years, first 25bp step-up in July 2023	100% equity	Debt – tax deductible coupon payments	50% equity, 50% debt
6.25% hybrid due 3013	EUR 700m	Hybrid capital (subordinated)	June 2023	Fixed for the first 10 years, first 25bp step-up in June 2023	100% equity	Debt – tax deductible coupon payments	50% equity, 50% debt
3.0% hybrid due 3015	EUR 600m	Hybrid capital (subordinated)	Nov. 2020	Fixed during the first 5.5 years, first 25bp step-up in Nov. 2025	100% equity	Debt – tax deductible coupon payments	50% equity, 50% debt

\*) All listed on Luxembourg Stock Exchange and rated Baa3 (Moody's), BB+ (S&P) and BBB- (Fitch)

\*\*) Due to the 1,000-year structure



## Benefits of hybrid capital

Hybrid capital is an attractive form of financing for corporates:

- Provides strength to the balance sheet at relatively attractive terms (tax deductible)
- · Supportive to credit ratings
- WACC efficient instrument to enhance financial flexibility
- · Non-dilutive source of quasi equity capital

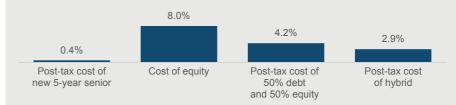
The issuance of hybrid capital is significantly cheaper than issuing proportional amounts of debt and equity

#### Illustrative example – current example

#### **ASSUMPTIONS**

Pricing for a Hybrid with first call in year 5:	3.5% (pre-tax)
Post-tax cost of hybrid = 3.5% * (1-22%)	2.87%
Pricing for a 5-year senior bond of 0.5% (pre-tax)	
Post-tax cost of senior = 0.5%* (1-22%)	0.41%
Cost of Equity:	8%

#### **RELATIVE COST ANALYSIS**





# BIOENERGY & THERMAL POWER

Thomas Dalsgaard, Executive Vice President

Meet the Management, 2 February 2017

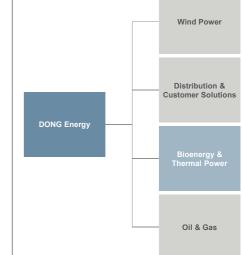




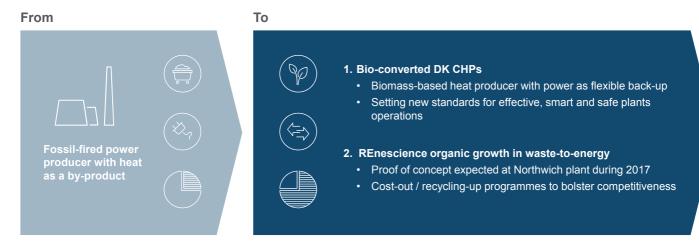
#### Thomas Dalsgaard

EVP Bioenergy & Thermal Power

2011 –	Executive Vice President, Bioenergy & Thermal Power
2010 – 11	DONG Energy, Senior Vice President
2008 – 10	DONG Energy, Vice President
2004 – 08	IMF, Washington D.C., USA, Senior economist
2003 - 04	DONG Energy, Head of Management and Board Secretariat
2001 – 03	Danish Ministry of Finance, Head of Division
1998 – 01	OECD, Paris, France, Senior economist
1993 – 98	Danish Ministry of Finance, Economist



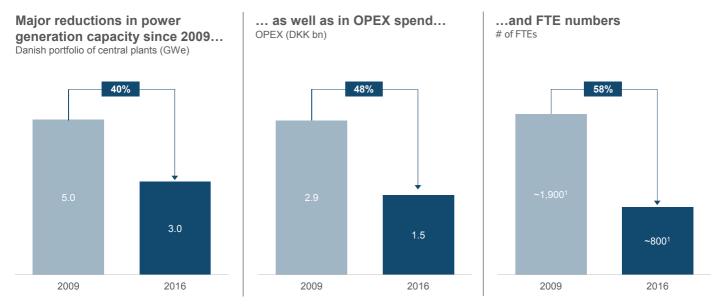
# **Ongoing transformation of business model**



⊜ Regulated earnings ○ Commodity exposure



# Transformation of DK business well underway



1. Adjusted for divested activities

# **Bio-conversions progressing as planned**

Avedøre 2 (394/541)

2014

CoD

#### Conversion CHP (MWe/MWth)<sup>1</sup>



#### Herning (77/150)

CoD	2009	
Primary fuel types	Gas	Wood





### Skærbæk 3 (95/320)

COD	2017	
Primary fuel types	Natural gas	▶ Wood chips







CoD 2016 Primary fuel types Coal 
Wood pellets

Esbjerg (55/150)

+2020E

Coal

Wood chips

CoD

Primary

fuel types



Avedøre 1 (254/359)				
CoD	2016			
Primary fuel types	Coal		Wood pellets	

Total: 1,262 MWe 2,158 MWth

1. Biomass capacity after conversions. MWe refers to converted power capacity. MWth refers to converted heat capacity.

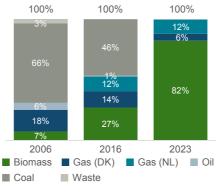


# **Bioenergy & Thermal Power will exit coal by 2023**



# Biomass conversions facilitate zero coal from 2023

DONG Energy fuel composition (%)



Coal may be used in force majeure circumstances

#### First major utility to fully exit coal

- Putting further action behind DONG Energy's vision for leading the energy transformation
- Heat customers support early coal phase-out

# Smart Plant Programme: Running the power plant of the future - smart, green and safe

#### Smart Plant Programme will cover five priority areas



Reduce cost of fuel ownership across the full supply chain from 'cargo to silo'

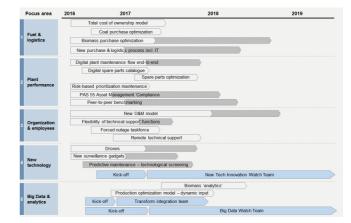
Improve productivity from office to plant by automating and digitalising processes

Make the most of our talent and build a flexible organisation where skills & expertise brings biggest impact

Be on top of technological advancement and bring in intelligent new tech solutions to daily routines

Better use of data to support timely business decisions across the organization from trading to production floor

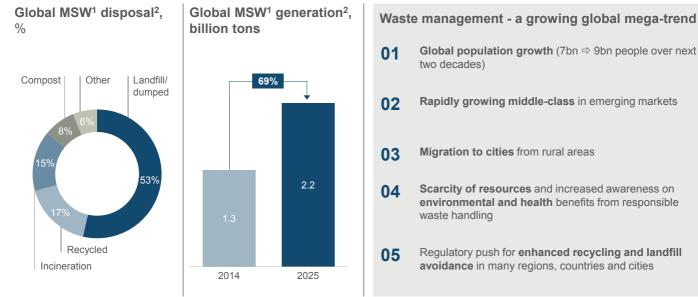
#### The 3-year programme kicked off January 2017



Smart Plant 2020 roadmap:

DUNG energu

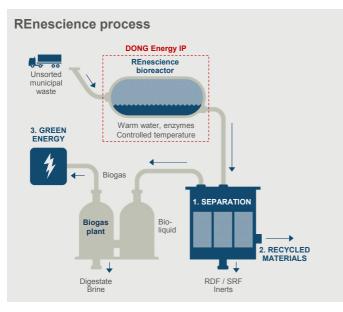
# **REnescience: A growth opportunity in the global waste market**



1. Municipal Solid Waste

2. World Bank: A Global Review of Solid Waste Management

# Converting household waste to green gas, green power, and recyclables



#### **REnescience Northwich**



#### Value proposition

- High green gas yield, low CO<sub>2</sub> footprint
- Cheaper and more convenient than source separation
- Higher recycling rate than incineration



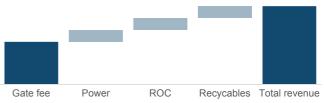
# REnescience Northwich – first commercial plant after successful demonstration in Denmark



#### Facts about the facility

- 5 MW of baseload electricity generation (supported through Renewable Obligation Certificates)
- · 120,000 tons of mixed waste processed per year
- CoD May 2017 (currently under construction)
- Total CAPEX ~DKK 600 MM

Business case driven by multiple revenue streams Revenue build-up of typical REnescience plant, UK example Illustrative



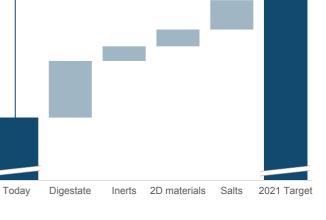
Size and composition of revenue drivers differ from project to project

# Reinforcing REnescience competitiveness through cost-out and recycling-up programmes

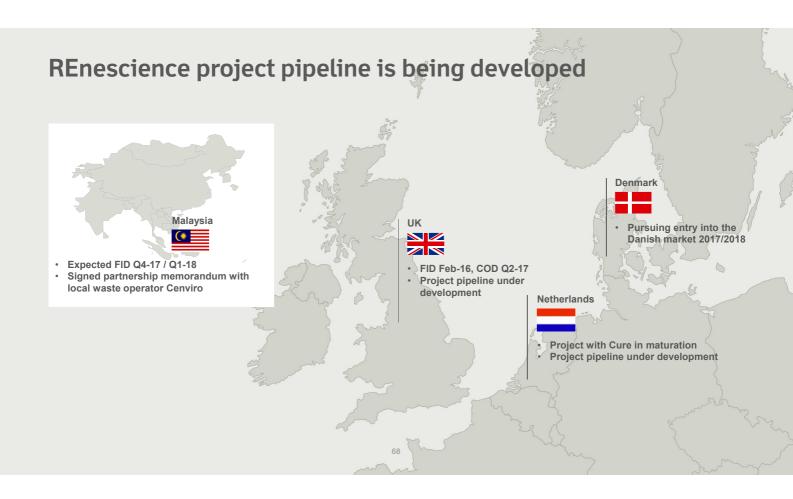
Today Sourcing Engineering Technology Other 2021 Target

Cost-out programme - reducing net treatment costs

**Recycling-up programme** – increasing recycling rate



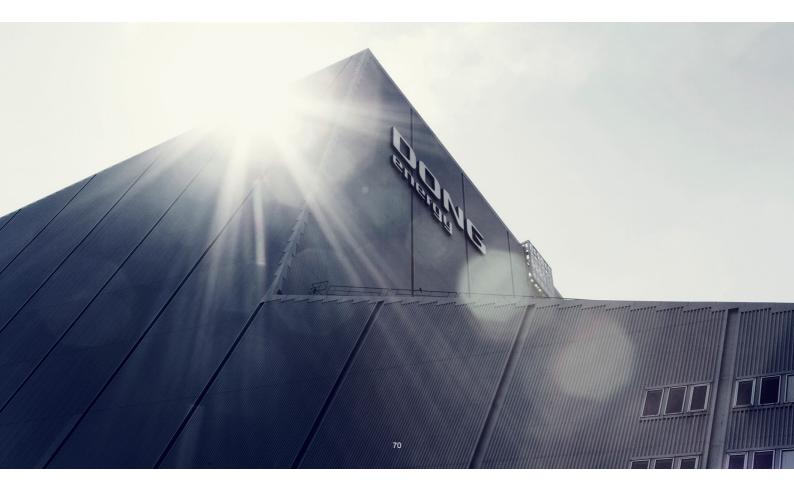
DONG energy

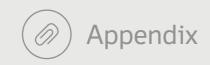


# On track to deliver on targets set out in IPO

	2015	2016			CURRENT EXPECTATION
Heat (DKKm)	346	407	•	Expected to more than double from 2015 to 2017	•
Power (DKKm)	-446 (-934 excl. one-offs)	-607	•	Subject to market conditions, underlying improvement over medium term from new heat contracts and enhanced flexibility	٠
Ancillary services (DKKm)	383	300	•	Relatively stable income going forward	•
Cash flow (DKKbn)	1.6	-0.6	•	Expecting positive free cash flow from 2018	•
Heat volumes (TWh)	9.3	9.2	•	Stable long-term heat offtake	•
Biomass share (%)	19	41	•	60% of heat capacity in 2020 is green	•
	(DKKm) Power (DKKm) Ancillary services (DKKm) Cash flow (DKKbn) Heat volumes (TWh) Biomass share	Heat (DKKm)346Power (DKKm)-446 (-934 excl. one-offs)Ancillary services (DKKm)383 (DKKm)Cash flow (DKKbn)1.6Heat volumes (TWh)9.3 (TWh)Biomass share19	Heat (DKKm)346407Power (DKKm)-446 (-934 excl. one-offs)-607Ancillary services (DKKm)383300Cash flow (DKKbn)1.6-0.6Heat volumes (TWh)9.39.2Biomass share1941	Heat (DKKm)346407Power (DKKm)-446 (-934 excl. one-offs)-607Ancillary services (DKKm)383300Cash flow (DKKbn)1.6-0.6Heat volumes 	(BASED ON 2015)Heat (DKKm)346407• Expected to more than double from 2015 to 2017Power (DKKm)-446 (-934 excl. one-offs)-607 • Subject to market conditions, underlying improvement over medium term from new heat contracts and enhanced flexibilityAncillary services (DKKm)383 • 1.6300 • Relatively stable income going forwardCash flow (DKKbn)1.6-0.6• Expecting positive free cash flow from 2018Heat volumes (TWh)9.39.2• Stable long-term heat offtakeBiomass share1941• 60% of heat capacity in 2020 is green









# New heat contracts and bio-conversions are key value drivers

#### CHP 01 Tax advantage advantage 02 Up-front CAPEX contribution from heat customers Тах 03 CHP advantage Fuel costs. variable O&M. etc. Fuel costs. variable O&M, etc. 04 Fixed costs Fixed costs Coal based Biomass based heat price heat price Old heat contract New heat contract

Heat price is regulated by Danish Heat Supply Act

DKK/MWh, Illustrative example

#### Value drivers from new heat contracts

01.Sharing of tax advantage	Replacing fossil fuels with biomass implies tax savings that can be shared between heat producers and heat customers	Heat
02.Up-front CAPEX contribution from heat customers	Value creation for BTP driven by the wedge between DONG Energy WACC and the regulated interest rate DONG Energy would otherwise receive from heat customers for fully financing the project. Heat customers benefit from the wedge between the regulated interest rate and their financing costs	EBITDA impact
03.Sharing of CHP advantage	, ,	
04.Cost sharing	Improved cost coverage for heat production plus coverage of loss from forced production	
Bio-to-power subsidy	A premium feed-in subsidy of 150 DKK/MWh for power produced on biomass	

## Elsam case

### **Elsam timeline**

- cases brought by competition authorities

2003-2004	Elsam 03-04: Alleged abuse of a dominant position in the form of excessive pricing in the Western Danish market for wholesale electricity in 2003 - 2004
2005 -	Elsam 03-04: DCC <sup>1</sup> determined that Elsam had abused its dominant position during 2. half 2003 - 2004
2006 —	Elsam 03-04: DCAT <sup>2</sup> stated that Elsam had abused its dominant position during 2. half 2003 - 2004
2007 —	<ul> <li>Elsam 03-04: Decision appealed to DMCHC<sup>3</sup>. Case is stayed on outcome of Elsam 05-06</li> </ul>
2005-2006	Elsam 05-06: Alleged abuse of a dominant position in the form of excessive pricing in the Western Danish market for wholesale electricity in 2005-2006
2007 —	Elsam 05-06: DCC <sup>1</sup> determined that Elsam had abused its dominant position     during 2005 - 2006
2008 —	<ul> <li>Elsam 05-06: DCAT<sup>2</sup> determined that Elsam had abused its dominant position during 2005 – 2. half 2006</li> </ul>
2008 —	Elsam 05-06: Decision appeal to DMCHC <sup>3</sup>
August 2016	Elsam 05-06: DMCHC <sup>3</sup> upholds that Elsam had abused its dominant position during 2005 – 2. half 2006
Dec. 2016	Elsam 05-06: Appeal to Western High Court
1 Danish Competitio	

1. Danish Competition Council

2. Danish Competition Appeals Tribunal

3. Danish Maritime and Commercial High Court

# Pending claims for damages and economic exposure

- Claims for Damages. Based on Elsam 03-04 and 05-06, 1,106 plaintiffs have in November 2007 filed a claim for damages with DMCHC<sup>3</sup>. The preparation of the case has been restarted after the judgement in Elsam 05-06 from DMCHC<sup>3</sup> and is ongoing
- The primary claim for damages amounts to DKK 4.4 billion with addition of interest calculated as per the date of the individual payments of the alleged excessive prices and until the payments have been settled
- Based on what we know so far concerning the plaintiffs' loss calculation, it significantly underestimates Elsam's actual costs of producing power
- · We have claimed dismissal of the entire claims for damages
- As a reaction to the claims for damages, we have currently provisioned DKK 298 million which with addition of interest calculated from the date of the plaintiffs' commencement of legal proceedings against us amounts to DKK 504m as of 1 April 2016. Our provision is based on DCC's<sup>1</sup> estimation of consumer losses in Elsam 03-04 and Elsam 05-06



## Key features of bio-conversions

### Typical plant modifications





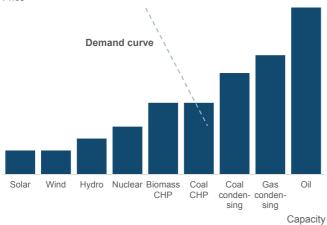
- · BTP manages project development, execution and O&M of bio-conversion projects
- Core competencies in project management, concept design, process chemistry, control & optimisation as well as safety
  management maintained in-house
- · Detailed engineering outsourced

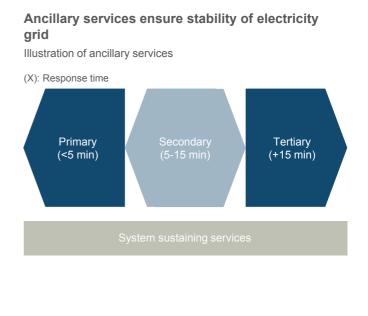
## Power is sold day-ahead, intraday and as ancillary services

# BTP CHP production is competitive with condensing production

Nordic power plant merit order and demand curve, Illustrative

Price







# **Bioenergy & Thermal Power well-positioned in ancillary services and power markets**

**Continuous work to improve plant flexibility** Example of initiatives to improve plant flexibility (not exhaustive)

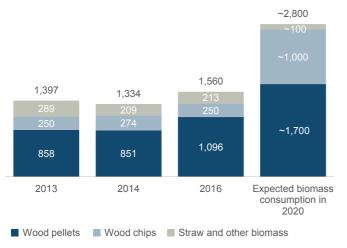
Bypass and heat accumulators	Turbine bypass and heat accumulators to decouple heat and power production	
Minimum load	30% ⇔ 13% of full load (Avedøre 2)	
Load gradients	4%/min ⇔ 8%/min (Skærbæk 3)	
Minimum load with ancillary services	60 MWe ⇔ 20 MWe (Asnæs 2)	

Solid competitive position in DK and NW Europe

- CHP production enables cost-efficient and swift delivery of ancillary services during winter and shoulder periods
- Closure of thermal capacity in the Nordics and the Continent likely to enhance BTP's market position

# Diversified biomass sourcing portfolio across geographies and fuels

### DONG Energy consumed 1.6 Mt of biomass in 2016 expected to almost double by 2020 Biomass consumption, '000 t<sup>1</sup>



1. Energy content per tons biomass: wood chips=10.5 GJ/ton, straw=14.5 GJ/ton, wood pellets=17.5 GJ/ton 2. CIF ARA converted from USD to EUR at respective daily exchange rate

### **Diversified sources of biomass**

Wood pellet origin, 2016



- Mix of contracts with different lengths (10-year, 2-3 year, annual and spot)
- Chips are sourced from Denmark and neighbouring countries, incl. the Baltics

DUNG

enerau

## European wood pellet prices have declined in 2016

Historical wood pellet prices, 1-year forward prices, EUR/ton



## DONG Energy adheres to strict sustainability criteria

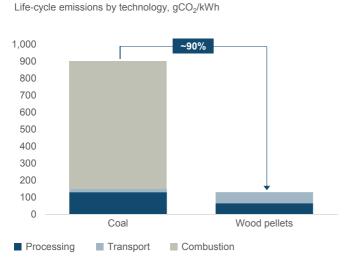
Combustion of biomass from sustainable forestry is  $\text{CO}_2$ -neutral



Ensuring sustainable sourcing of biomass Standard of Sustainable Biomass Program (SBP) SBP · Protection of key ecosystems or habitats · Forest productivity and health is maintained eon · Rights of indigenous peoples and local communities engie · Protection of health and safety and basic RWE labor rights drax · Regional carbon stocks are maintained or increased over the medium- to long-term HOFOR · Genetically modified trees are not used VATTENFALL · End-to-end accounting for greenhouse gas emissions

Independent 3<sup>rd</sup> party auditors certify suppliers through annual audits, recertification every 5 years and carbon accounting from forest to furnace

## Substantial CO<sub>2</sub>-reduction compared with coal



Across the life-cycle, emissions reduction of ~90%

vs. coal1

1. Source: Life-cycle assessment of wood pellets for energy applications, Aalborg University, the Danish Centre for Environmental Assessment

Under EU regulation, biomass is considered CO<sub>2</sub>-neutral

- EU regulation assumes that carbon released when biomass is burned will be re-absorbed through tree growth
- Biomass currently accounts for two-thirds of renewable energy produced in the EU
- EU Commission's current Clean Energy Package contains proposed regulation on biomass sustainability that is broadly aligned with the Danish Industry Agreement and SBP



## Policies are supportive of further resource utilisation

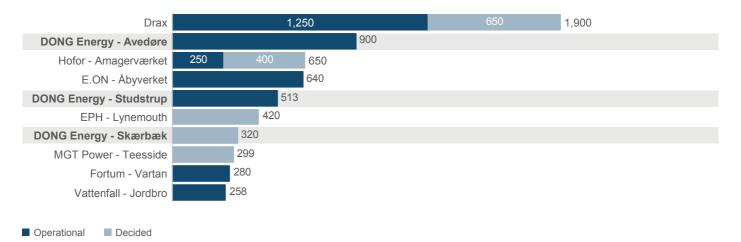


- The EU Waste Framework
   Directive set a target of 50%
   recycling of household waste by
   2020
- Proposed EU 'Circular Economy' package includes a target of 65% recycling of household waste by 2030
- Growing number of country-level targets to move away from landfill and increase recycling rates within and outside the EU
- Waste planning and targetsetting takes place at a highly decentralised level

## 10 largest biomass-fired facilities globally

### Biomass plants – capacity<sup>1</sup>

MW output



1. For CHP or heat producing plants, the heat capacity is shown, whereas for power producing plants, the electrical output is shown. NOTE: Does not include plants where biomass is not the primary fuel (for example co-firing applications); does not include industrial applications



# WIND POWER EPC

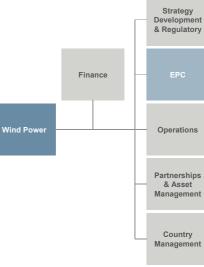
Anders Lindberg, Head of EPC

Meet the Management, 2 February 2017

BBNE

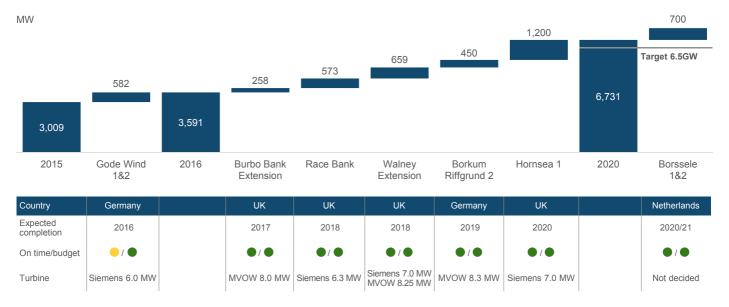


### Anders Lindberg Senior Vice President, Head of EPC Born<sup>.</sup> 1965 Education: EMBA in Business Administration (SSE) & MSc. in Electrical Engineering (KTH) Senior Vice President, 2015 -Head of EPC, DONG Energy Wind Power Wind Power 2014 -Board member. IEC Holden 2011 - 14 President Rolling Stock Central & Northern Europe and Asia, Bombardier Transportation 2007 - 11 President Rail Control Solutions, Bombardier Transportation 2004 - 07 President Propulsion & Controls, Bombardier Transportation



#### 84

# Robust & highly visible offshore wind build-out plan towards 2020



Note: The export capacity of Hornsea 1 is 1,200 MW determined by the boundary of the facility (offshore substations), while the aggregated installed generator capacity is 1,218 MW



# Gode Wind 1&2: Grid repair completed and park fully operational



- Gode Wind 1&2 completed slightly behind time schedule and within budget, despite grid delay and outages
- Outstanding safety performance with only 1 LTI (LTIF: 0.4) during construction
- Completed November 2016 after challenging turbine commissioning as a result of unstable grid
  - Delayed grid connection from TenneT and numerous grid outages
  - Grid repair campaign November 2016 to January 2017 by grid owner TenneT
- Grid returned 8 January and re-energisation of turbines progressed according to plan
- Wind park back in operation by end January and park fully handed over to Operations



## **Burbo Bank Extension: Construction activities finalised**



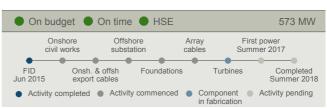
- · Burbo Bank Extension on track to complete on time and within budget
- Outstanding safety performance with only 1 LTI (LTIF: 0.5) during the two year construction period
- · Construction activities completed and commissioning advanced
  - First power achieved 20 November 2016
  - Last turbine installed 14 December 2016
  - · 22 turbines are operational and produce power ultimo January
- Transfer to Operations has commenced
- First offshore and large scale deployment of 8 MW MHI Vestas (MVOW)
- CfD to commence 1 April 2017



## Race Bank: Fully on track



- · Race Bank is fully on track both on time and budget
- Good safety performance with 1 LTI (LTIF: 0.7)
- First offshore substation installed and energised; second to be installed in March
- Both export cables have been successfully installed in sensitive salt marsh area
  - First export cable fully installed, energised from onshore to offshore substation and buried
  - Second export cable remaining installation ongoing and will be ready for termination in second offshore substation
- All monopile foundations installed and transition piece installation progressing



• Turbine installation to begin during Q2 2017

## Remaining construction program fully on track

### **Walney Extension**

659 MW	
Country	
On time / On budget	
Expected completion	

#### Budget

All major contracts signed

#### Schedule

On track with overall program timeline

#### Safety

• LTI: 0

#### Activities 2017

- Offshore works to fully ramp up
  - Export cable H1
  - · Foundation and array cables H1
- Turbine installation to begin H2
- First power expected during H2

Borkum Riffgrund 2					
450 MW					
Country	Germany				
On time / On budget	•/•				
Expected completion	2019				

#### Budget

UK

0/0

2018

· All major contracts signed

#### Schedule

- · On track with overall program timeline
- Final approval of amended building consent received January

#### Safety

• LTI: 0

#### Activities 2017

- Manufacturing of components to be ready to start offshore installation in 2018
- Installation of jacket for our offshore substation in Q3
- TenneT to install DolWin3 converter station

### Hornsea 1

### 1,200 MW

Country On time / On budget Expected completion

#### Budget

All major contracts signed

#### Schedule

• On track with overall program timeline

#### Safety

• LTI: 0

#### Activities 2017

- Commence installation of onshore substation electrical Q2
- Commence installation of onshore export cable Q2
- · Manufacturing of components

## Borssele 1&2

### 700 MW

.....

UK

0/0

2020

Country

On time / On budget

Expected completion

Netherlands

/ ●
2020/21

\_0

#### Budget

· Turbine tender currently ongoing

#### Schedule

• On track with overall program timeline

#### Safety

• LTI: 0

#### Activities 2017

· Closing of major contracts



# LCoE being reduced through scale, innovation, industrialisation and digitalisation in both EPC and Operations



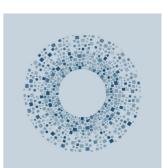
Scale

Increased size of windfarms and turbines



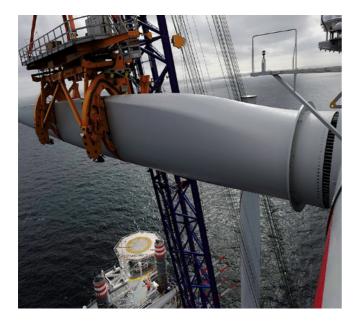
Driving innovative solutions

Standardisation and procurement for multiple projects Digitalisation



Fully capturing new technological opportunities

## Wind Power fully on track with 2020 build-out plan





All projects fully on time...



... and within budget



Continue the cost reduction journey



# WIND POWER OPERATIONS

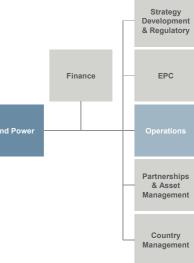
Jens Jakobsson, Head of Operations

Meet the Management, 2 February 2017

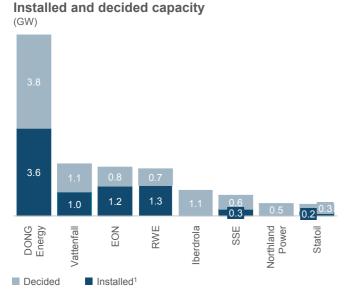




#### Jens Jakobsson Senior Vice President, Head of Operations Born: 1966 Education: BSc.EE (DTU), Finance for Executives (INSEAD) & Executive Management Programmes (INSEAD & IMD) 2015 -Senior Vice President. Wind Power Operations Wind Power 2014 - 15 Senior Vice President, Wind Power Engineering 2010 - 14 Vice President, Power and Gas Distribution 2006 - 10 Vice President. Power Distribution 1994 - 06 NESA A/S, Various Management Positions

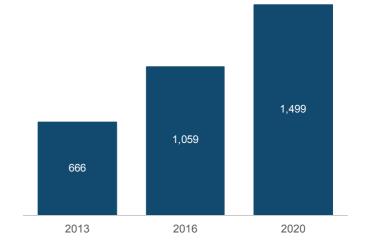


## Largest operator of offshore windfarms in the industry



Source: DONG Energy, Bloomberg New Energy Finance (BNEF)

 If a project is executed on behalf of a lead developer managing the construction, then 100% of capacity is allocated to the lead developer. If construction is executed by an integrated joint venture, capacity is allocated in proportion to the JV share Number of turbines in operation



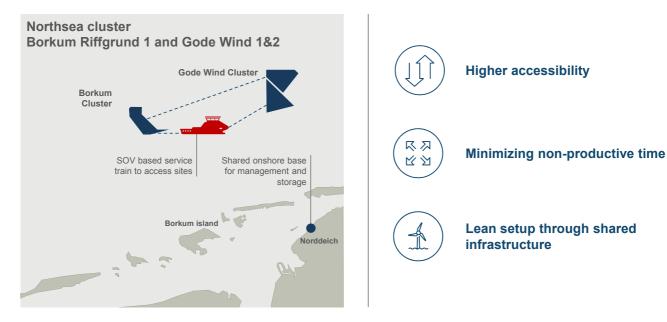


# Availability performance of clusters in H2 2016 as expected – specific challenges in German cluster



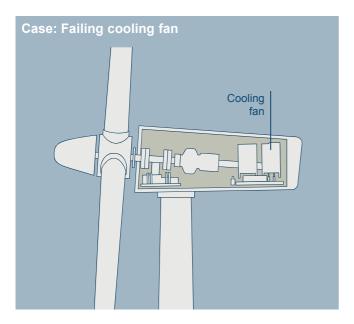
Note: Nearshore & demo wind farms excluded. Commercial time based availability shown.

# Scale effects – clusters allow for shared onshore infrastructure and application of Service Operation Vessel





# More data – source for significant operational improvement in the near future



### Before - No online monitoring:

- · Turbine stops in case of high temperature
- · Leads to availability loss

### Now - Standard Analytics:

- · Continuous temperature monitoring and predictive models
- Identifies issue before turbine stops, lowering lead time and limits availability loss

### Near future - Advanced Analytics:

- Further development of existing predictive models
- · Temperature ride-thru controls, more measurements and data
- Turbine operational until repair

# Consistently improving park performance after take-over from OEMs



Long term perspective on optimisation of operating wind farm

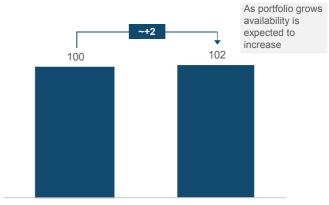


Strong incentive to increase availability as both owner and operator



Large portfolio enable synergies and drive down costs

Average availability performance for operating assets (Index)

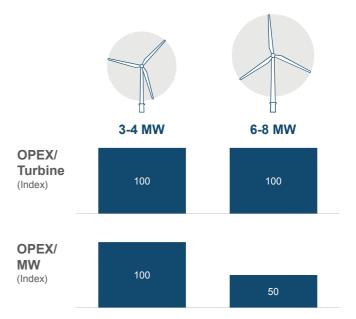


Performance under OEMs Performance post OEMs



## In addition, larger turbines provide powerful scale effects





# Wind Power is the largest offshore wind power operator in the world with a significant focus on cost reductions





Operating the industry's largest portfolio

Site performance meets expectations, with additional opportunities to improve



Scale is a main driver for cost reductions



Advanced analytics being developed to reduce maintenance costs and improve performance







# WIND POWER POST 2020 PIPELINE

Martin Neubert, Chief Strategy Office

Meet the Management, 2 February 2017

105

DONG

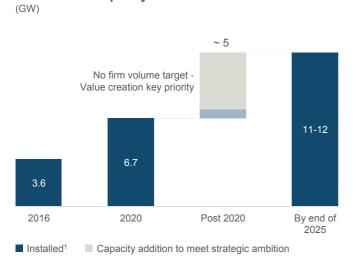
enerou



Martin Neubert					Strategy
Chief Strategy Officer, Head of Strategy, Development & Regulatory					Development & Regulatory
Born: 1973					
Education: MSc. in Economics and Finance (FAU) & CFA			Finance	_	EPC
2016 -	Chief Strategy Officer Head of Strategy, Development & Regulatory	Wind Power			Operations
2012 - 15	Vice President Head of Partnerships				
2008 - 12	Various Senior positions Head of Group M&A, Head of Equity Partnerships and Senior Project			$\mid$	Partnerships & Asset Management
-> 2008	Manager in Group M&A in DONG Energy Previously at Arthur Andersen, EY and Bain Capital				Country Management

- .
- .

## Wind Power's ambition is to drive profitable growth by adding ~5 GW of additional capacity post 2020



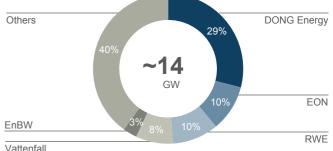
Secured capacity (Borssele 1&2)

Wind Power capacity

Source: DONG Energy, Bloomberg New Energy Finance (BNEF)

1. If a project is executed on behalf of a lead developer managing the construction, then 100% of capacity is allocated to the lead developer. If construction is executed by an integrated joint venture, capacity is allocated in proportion to the JV share

Global offshore wind market share end of 2016 (Percentage of installed capacity, GW) Others 29%

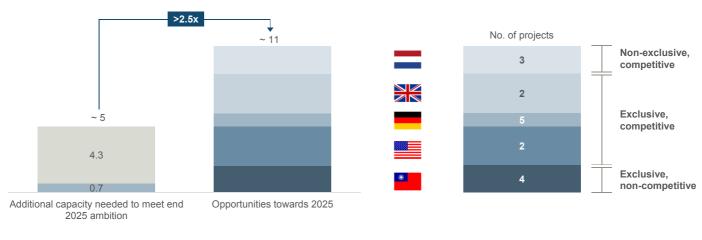




# Remaining capacity of 4.3 GW will be fuelled from an opportunity pipeline of ${\sim}11\,\text{GW}$

### Wind Power capacity

(GW)



Capacity addition to meet strategic ambition

Secured capacity (Borssele 1&2)

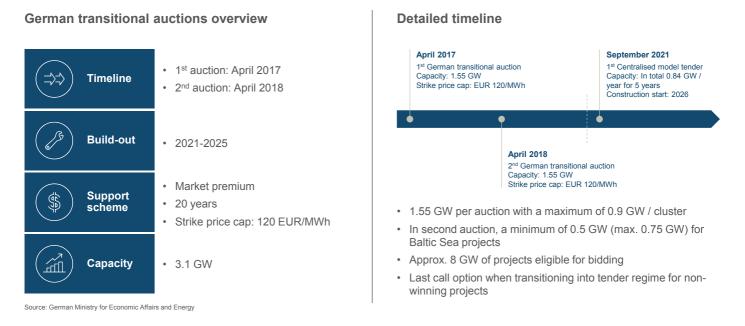
## Next 18 months will see allocation of more than 8 GW of capacity for the post 2020 period



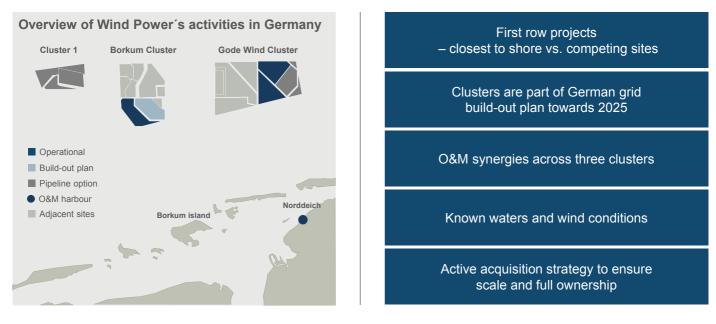
Source: BNEF; Netherlands Enterprise Agency 1. In 2016 the UK government announced CfD auctions of up to GBP 730m for up to 4 GW of offshore wind to be executed over three auctions by 2020. Exact capacity to be allocated in each round is uncertain. The UK government has committed to up to three auctions in this parliamentary period. However a firm date has only been communicated for the 2017 auction. 2. Environmental Impact Assessment. 3 The Dutch government has proposed in its Energy Agenda to continue offshore wind field first GW annually in 2020-2025, hence additional opportunities may arise.



## Two transitional auctions of total 3.1 GW in 2017/2018 before Germany introduces centralised model



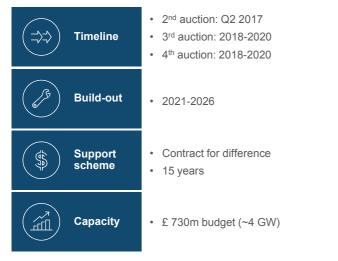
# Pipeline options in Germany positioned close to existing projects offering synergies across sites





### Approximately 4 GW to be awarded in UK through up to three additional CfD auctions

#### **UK CfD Auctions overview**



#### **Detailed timeline**

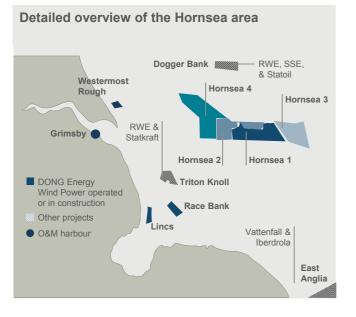
Feb 2015 1 <sup>st</sup> UK CfD Auction Capacity: ~1.2 GW Strike price (awarde East Anglia 1 £ 119. NNG £ 114.39/MWF	d): 89/MWh (2017/18)	2018-2020 3 <sup>rd</sup> UK CfD Auction Capacity: ~1.3 GW	
•	Q2 2017 2 <sup>nd</sup> UK CfD Auction Capacity: ~1.3 GW Strike price cap: £105/MWh (2021/22) £100/MWh (2022/23)		2018-2020 4 <sup>th</sup> UK CfD Auction Capacity: ~1.3 GW

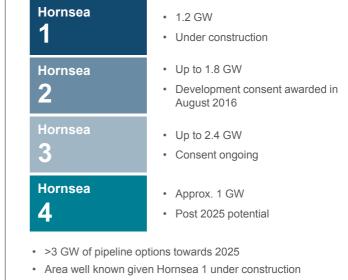
- Offshore wind competing with other less advanced technologies for the £730m budget
- · Actual capacity awarded dependent on winning strike price
- · Administrative strike price is the maximum level of support

Note: In 2016 the UK government announced CfD auctions of up to £730m for up to 4 GW of offshore wind to be executed in up to three auctions in this Parliamentary period. Only the date for the 2017 auction is firm and exact capacity to be allocated in each round is uncertain. Strike prices in £ real 2012 values.

Source: DECC

## High quality pipeline for the UK CfD auction rounds







## Massachusetts auctions of at least 0.4 GW to be held every 24 months until target of 1.6 GW is met

#### • 1<sup>st</sup> auction: by 2017 Timeline Thereafter auctions every 24 months (if prices continue to fall) **Build-out** 2018 - 2027 · Auction based on price of power and/or RECs Support \$ scheme 15-20 years · No explicit price cap >0.4 GW / auction Capacity ŕΓΓ 1.6 GW in total

Massachusetts auction overview

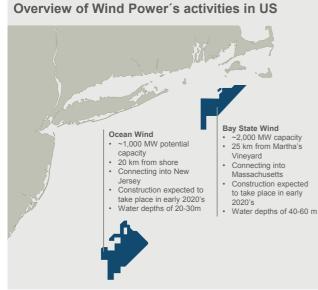
#### Source: MA Energy Bill (2016)

#### **Detailed timeline**



• Three eligible projects for bidding in the 2017 auction

# Secured project rights to build large scale projects with total of $\sim$ 3 GW capacity and entered 50/50 partnership in US







# In Taiwan, approval of environmental permits needed by end 2017 to secure site exclusivity

#### Overview Taiwan offshore wind



Note: Feed in Tariff in TWD: 5.9838 TWD/kWh (20 years) or TWD 7.3103 (year 1-10) and TWD 3.5948 / kWh (year 11-20). Conversion to EUR based on exchange rate TWD/EUR: 35.75 Source: Taiwan Bureau of Energy, Ministry of Economic Affairs

#### **Detailed timeline**



Both local and international developers active in the Taiwanese
market

# Acquired 35% of Taiwan's first offshore wind project and pursuing further post 2020 project rights of minimum 2 GW

#### Overview of Wind Power's activities in Taiwan Formosa 1 128 MW capacity (in two phases) ~3 km from shore · 8 MW (Phase 1) installed in 2016 and commission Taiwan of 120 MW (Phase 2) Strait expected by 2019, subject to final investment decision Taiwan · Water depths of 15-35 m Area for offshore wind +10 m/s wind 15 GW area divided into zones · Low water depth · Favourable seabed Minimal impact by typhoons and earthquakes

#### Inauguration of office in Taipei

Environmental Impact Assessment for project zones of minimum 2 GW submitted to the Taiwanese government

Acquired a 35% interest in the Formosa 1 project, developed by Swancor Renewable



## Further markets with strong offshore wind potential expected to open up post 2020



Note: In US, states are defining their own energy policies, hence US consists of several different markets Source: BNEF

## Wind Power is the market leader in offshore wind with an ambitious growth strategy post 2020





Ambition of 11-12 GW installed capacity by end 2025

~11 GW opportunity pipeline to secure the further growth



Next 18 months will see allocation of full 2025 capacity



First mover advantage in US/Taiwan

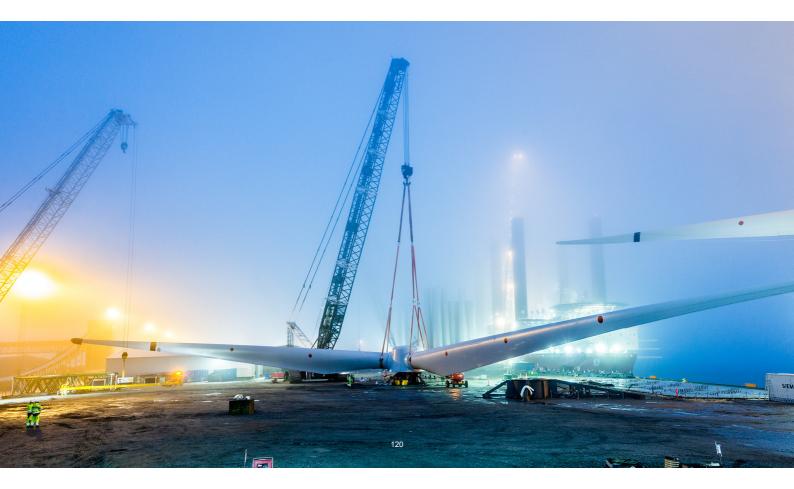


Well positioned in European markets



Potential additional opportunities arising in emerging markets







# FINANCIAL MODELLING

Marianne Wiinholt, CFO

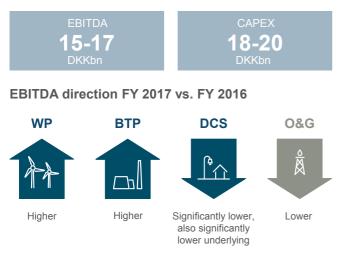
Meet the Management, 2 February 2017

DONG

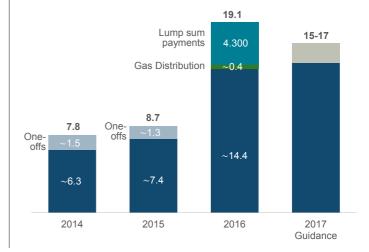
enerau

## **DONG Energy guidance 2017**

#### Guidance 2017 (Continuing operations)



### Underlying growth in EBITDA (Continuing operations)

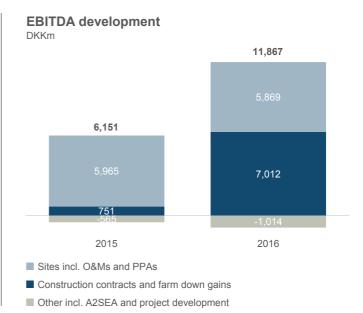


## Wind Power – Higher EBITDA in 2017

Directional guidance 2017 vs. 2016 Higher EBITDA

#### **Going forward**

- · Sites incl. O&Ms and PPAs
  - Increased earnings driven by commissioning of Burbo Bank Extension and increased contribution from Gode Wind 1&2 as a result of grid and cable issues in 2016
  - WEC 93% in 2016
- · Construction contracts and divestment gains
  - · Farm down of Walney Extension expected
  - Additional SPA and construction gains from Race Bank
- EBITDA in 2017 expected to be roughly evenly split between 'Sites incl. O&M and PPAs' and 'Construction contracts and farm down gains'
- · 'Other incl. A2SEA and project development'
  - Expected around the same level as 2016 (~DKK -1.0bn)



DONG

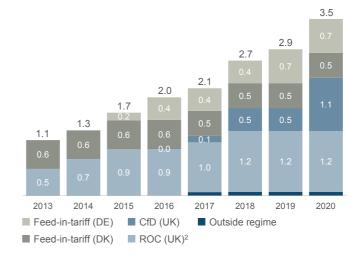
enerau

## Wind Power – Development in EBITDA from Sites

#### Key commentary

- Production capacity expected to increase by 29% in 2018, 7% in 2019, and 67% from 2017-2020
- Less than 5% of power generation will be out of subsidy period in 2017-2020
- OPEX for farms in operation at the time of the IPO was DKK 15-17m per MW (real 2015 prices) over the expected life
  - · Significantly larger turbines and sites reduce OPEX/MW
  - OPEX is more a function of the number of positions than the actual size of the turbines

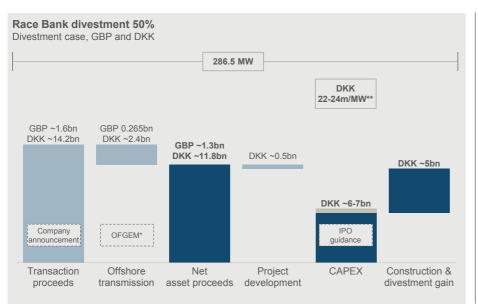
Regime overview for production capacity<sup>1</sup>, end of period, GW, Production capacity



 50% farm down of execution pipeline assumed. Lincs not forming part of the production capacity definition due to one-line consolidation
 The ROC (UK) includes ~1/3 from sale of electricity at market prices and ~2/3 from the ROC-subsidy

## **Race Bank transaction**

Estimation of construction and divestment gain based on company announcement and previous IPO guidance



\* Source: https://www.ofgem.gov.uk: Developer's initial transfer value: GBP 530.4m. 50% included reflecting Partner's share \*\* Real 2015 prices

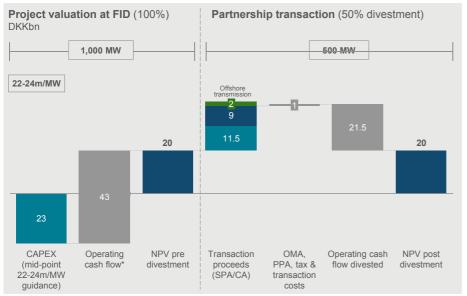
#### Partnership modelling considerations

- Divestment and construction gains can roughly be estimated based on company announcement upon completion of transaction
- Announced transaction proceeds do not include profit from Operations & Maintenance Agreement (OMA) or Power Purchase Agreement (PPA)
- Construction gain recognised according to degree of completion, and divestment gain (SPA) normally recognised at time of transaction
- Besides CAPEX, the proceeds also cover historical project development costs



## Generic farm down UK wind farm

Illustrative example - Valuation of investment and divestment case



## Valuation of investment and divestment case

- DONG Energy brings in partners at around its cost capital
- NPV post divestments equals NPV pre divestment, crystalizing the value creation up front
- Gain from divestment example of DKK 10bn:
- Gain on transaction DKK 9bn
- DKK 1bn from OMA and PPA, less tax and transactions costs

\* Offshore transmission investment and divestment included in operating cash flow

## Wind Power – Upcoming farm downs





#### Expected timing of farm downs



Walney Extension (capacity 659 MW) Farm down expected in 2017



Borkum Riffgrund 2 (capacity 450 MW) Farm down expected in 2018



Hornsea 1 (capacity 1,200 MW) Undecided



Borssele 1&2 (capacity 700 MW) Undecided



### **Bioenergy & Thermal Power**

#### Directional guidance 2017 vs. 2016

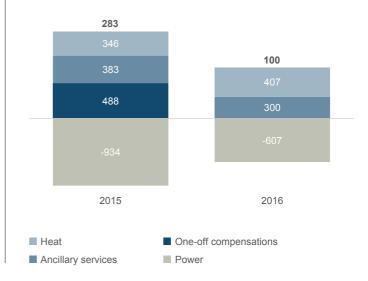
Higher EBITDA. We assume combined heat and power EBITDA to improve compared to FY 2016

#### **Going forward**

- EBITDA from our district heating activities expected to more than double compared to DKK 346m in 2015, driven by completion of the conversions of Studstrup and Avedøre in late 2016 and Skærbæk in H1 2017
- Earnings from ancillary services expected to be in the DKK 0.3-0.4bn range seen in 2015 and 2016
- Power markets expected to remain challenging in 2017, and continue to lead to negative 'Power' EBITDA
- Note: With an increasing heat generation based on biomass, a larger part of the power generation will also be based on biomass due to combined generation. This will in isolation adversely impact EBITDA from power generation as biomass is a more expensive fuel

#### EBITDA development

DKKm



### **Distribution & Customer Solutions**

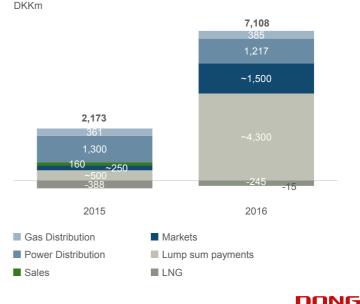


Significantly lower EBITDA. Also significantly lower underlying (underlying EBITDA of DKK 2.4bn in 2016)

#### **Going forward**

- · Power Distribution and Sales expected to remain stable
- Regulated power asset base of DKK 10.7bn expected to increase by 5% annually towards 2020
- · Markets:
  - Gas portfolio management activities positively impacted by increasing gas price in H2 2016 leading to positive adjustment of gas storage and gains locked in in earlier periods, not expected to be repeated in 2017
  - Market trading have constrained risk management mandates, but high market volatility has led to strong performance in 2016, not likely to be repeated in coming years, especially due to lower volumes from expected O&G divestment
  - Underlying EBITDA increase from run-rate margin improvement following the completion of renegotiation of the long-term gas purchase contracts
- · LNG slightly better in near-term and stable in the medium-term
- 16 out of 18 price reviews related to 2011-2015 period have been closed at the end of 2016. No significant lump sums expected from the remaining open price reviews
- Oil Pipe and Offshore Pipeline assets to be divested are included in Distribution and Markets, respectively

#### EBITDA development



enerau

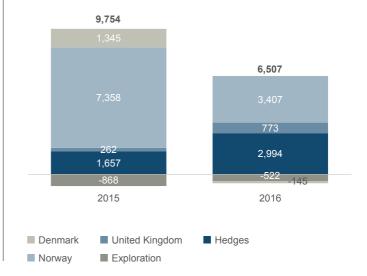
### **Oil & Gas – Discontinued operations**

#### Directional guidance 2017 vs. 2016 Lower EBITDA

#### **Going forward**

- Lower production due to natural decline, divestment of five Norwegian assets and last catch-up volume received from Ormen Lange in Q1 2016
- · Restructuring and refocus of business reduces costs
- · Minor exploration and appraisal costs going forward
- Net profit of DKK 1.1bn in 2016; shown in a separate line in the income statement as 'Net profit from discontinued operations'
- O&G Free cash flow of DKK 1.1bn in 2016. 2017 expected to be roughly in line with 2016
- Cash flow break-even at \$33/boe
- Market value of hedges of DKK 1.4bn (year-end 2016) not to be included in a transaction
- Unrecognised tax assets can under certain circumstances be used against hydrocarbon tax in UK and DK
- 2P reserves at 197mboe





## Net finance costs

#### Key commentary

Net finance costs in 2017 to be impacted by:

- Reduced gross debt end-of-2016 at DKK 25.1bn
- Average funding rate end-of 2016 of 4.0%, compared to an average rate of 4.4% for 2016
- 89% of our debt is fixed rate
- Costs relating to early repayments not expected to be repeated
- The financial income and expenses related to 'Value adjustments of derivative financial instruments', 'Exchange rate adjustments' and 'Financial income and expenses' is expected to fluctuate around "0"

FINANCIAL INCOME AND EXPENSES, DKKm	2016	Main drivers
Interest expenses, net	-402	
- Interest income from cash etc.		Cash
- Interest income from securities at fair value		Securities
- Interest expenses relating to loans and borrowings		Gross debt
- Interest expenses transferred to assets	574	Capitalised based on 'Assets on Construction'
Interest element of provisions etc.	-392	Structural interest rate of 4.5% applied on provisions for decommissioning, onerous contracts and prepayments from heat customers
Costs relating to early repayments	-892	Not expected to be repeated
Value adjustments of derivative financial instruments, net	-124	Fluctuates around "0", but sensitive to market price developments
Exchange rate adjustments, net	1,035	Fluctuates around "0", but sensitive to exchange rate developments
Value adjustments of securities, net	-96	- Discount on bond portfolio +/- Running MV reg. of bond portfolio
Other financial income and expenses, net	104	Fluctuates around "0"
Net financial income and expenses	-767	



### Tax overview

#### Key commentary

Our effective tax rate is expected to be close to a weighted average of the ordinary statutory tax rates for Denmark (22%), the UK (18%) and Germany (30%), excluding tax-exempt gains on divestments / farm downs

#### Taxation on farm downs

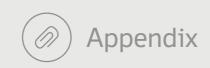
- EBITDA from construction agreements is recognised throughout the construction phase (1-3 years), but taxes related to these are normally not paid until the year of completion
- Gains on the divestment of shares (SPA) are, as a general rule, tax exempt
- However, as farm down to, or below, 50% will lead to an exit from International joint taxation for that wind farm, a payment of part of the Danish re-taxation balance will be triggered

#### International joint taxation (IJT)

- · We currently expect to exit the IJT in 2018
- Tax liability of DKK c. 1.7bn year-end 2016

TAX AND TAX RATE, DKKm	Profit before tax	Tax here of	Tax %
Gain (loss) on divestments	4,243	-88	2%
Rest of DONG Energy	10,109	-2,103	21%
Effective tax for the period	14,352	-2,191	15%

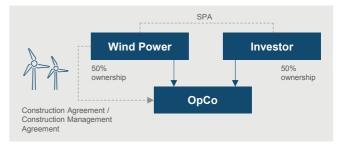




### Tax on farm down gains



#### Principal tax effect from farm down



- Wind Power divests 50% of ownership in OpCo holding project rights
- · Wind Power builds and sells operating wind farm to OpCo
- For tax purposes gains from Construction agreements are taxed at Commercial Operation Date (COD) and gains from construction management agreements are taxed on a continuous basis
- · SPA gains typically tax exempt
- · Access to tax depreciations from CAPEX in country of operation



### **Danish International Joint Taxation**



#### **Danish International Joint Taxation**

- Since 2005, the Group has chosen to use Danish rules on international joint taxation, which are tax rules that were originally introduced to promote Danish companies' investments abroad
- International joint taxation allows for a temporary relief in the Danish taxable income for negative taxable income, which primarily stems from depreciation and amortization relating to non-Danish capital expenditures and expenses incurred abroad. These can be deducted in the Danish statement of taxable income, just as profit earned abroad is taxed in Denmark
- Double taxation is generally avoided via domestic credit relief rules or tax treaty relief

- The rules on Danish international joint taxation only result in a postponement of the tax payable in Denmark and will thus result in increased Danish tax payments in the future, corresponding to the tax savings the Group has realized from foreign investments in previous years
- The deferred tax liability resulting from Danish international joint taxation is recognized in the consolidated financial statements
- · IJT does not affect foreign local taxation

#### IJT exit

- DONG Energy continuously calculates effects from IJT and monitors consequence from premature exit
- Under the current assumptions the group is expected to leave IJT in 2018

## **O&G Unrecognised Tax Assets**



The below table indicates the off balance sheet tax assets in O&G.

#### UNRECOGNISED TAX ASSETS, DISCONTINUED OPERATIONS (DKKbn) 2016

Denmark, hydrocarbon income	
(Chapter 3A of DHTA), tax base	17.9
Denmark, hydrocarbon income	
(Chapter 2 of DHTA), tax base	3.4
The UK, hydrocarbon income, special income	
tax and hydrocarbon tax, tax base	4.1
Greenland and the Faroe Islands,	
hydrocarbon income, tax base	0.2
Total at 31 December	25.7

- · Unrecognised tax assets can be carried forward indefinitely
- A buyer may or may not be able to capitalise the unrecognised tax losses subject to, among other things, the buyer's tax position



# MEET THE MANAGEMENT

Wrap-up

leet the Management, 2 February 2017

BBNF

## Today's key messages

## 01

#### Company performing well operationally and financially

- 2016 delivered above original guidance
- Y-o-Y reported EBITDA growth of 119%
- Underlying EBITDA
   growth of 95%
- ROCE of 24.4%
- ROCE excl. gains from gas contract renegotiations of 16.9%

02 Strategic direction is unchanged

#### Fuel global market leadership and profitable growth in Wind Power

- Transform Utility to a smart, green and growing business
- Drive value and strength of Oil & Gas and prepare for new ownership

Strong progress on strategic agenda

03

- Wind Power project
   execution on track
- Wind Power well positioned for post 2020 offshore market
- Biomass conversions on track - no coal from 2023
- Oil & Gas exit process on track

## 04

#### Return targets extended towards 2023

- Group ROCE 12-14%
- WP ROCE 13-15%
- DCS ROCE 9-11%

## 05

#### Underlying profit growth continues in 2017

#### 2017 guidance

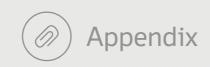
- EBITDA: DKK 15-17bn
- · Capex: DKK 18-20bn

#### EBITDA direction vs. 2016

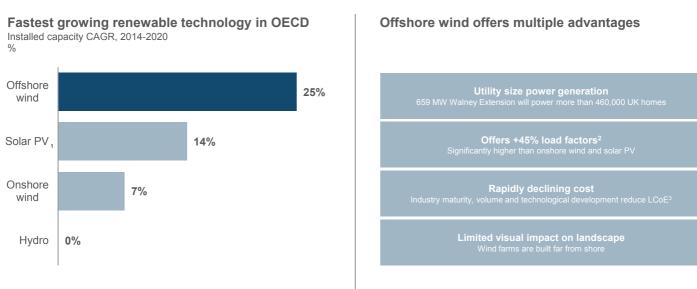
- · Wind Power: Higher
- BTP: Higher
- DCS: Significantly lower

Underlying EBITDA growth: 4-18%





# Offshore wind is a large scale renewable technology with growth rates exceeding other renewables



Source: Bloomberg New Energy Finance (BNEF)

1. Sum of utility-scale PV and small-scale PV

2. Load factor is a performance indicator measuring to what degree a wind farm has produced according to the farms capacity (actual production / (capacity x hours in period))

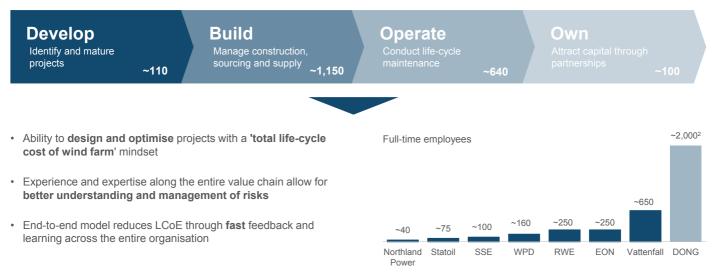
3. According to BNEF, long-term offtake price required to achieve a required equity hurdle rate for the project



## DONG Energy Wind Power has built a strong integrated end-to-end business model

**DONG Energy Wind Power core competencies** 

2000 : Full-time employees<sup>2</sup>



1. Front-end engineering design

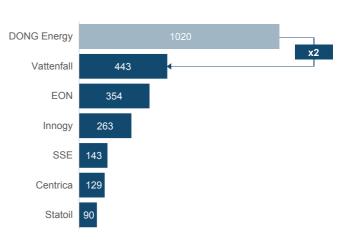
2. Excluding CT Offshore and A2SEA as of January 2017

## Proven construction track-record and leading operating capabilities

Strong construction track-record due to full EPC<sup>1</sup> control

COUNTRY	ASSET	FID	GROSS CAPACITY(MW)	FID BUDGET
UK	Westermost Rough	2013	210	15-20%, below
Germany	Borkum Riffgrund 1	2011	312	5-10%, below
UK	West of Duddon Sands	2011	389	5-10%, below
Denmark	Anholt	2010	400	10-15%, below
UK	London Array	2009	630	10-15%, above
UK	Walney 1&2	2009	367	5-10%, above
Denmark	Horns Rev 2	2007	209	5-10%, above

### Leader in operating offshore wind farms



DUNG

energy

# of operated turbines January 2017

Source: Bloomberg New Energy Finance January 2016

1. Engineering, procurement and construction

## Partnership model allows for significant portfolio value with less capital and reduced risk

Significant up-front value realisation from partnership model



DONG Energy brings in partners at a price around DONG Energy's cost of capital, thereby allowing for up-front value realisation to invest in new value creating projects

### Multiple portfolio benefits from partnership model

- · Recycle capital
- · Portfolio value creation
- · Risk diversification
- · Scale and standardisation from large portfolio
- 1. Excludes utilities and other strategic partners such as Siemens, Vattenfall, SSE, Scottish Power, Centrica, and E.ON
- 2. Cornerstone bond investor in Global Infrastructure Partners' acquisition of 50% of Gode Wind 1

Wind farm partners by type, geography and # of partnerships<sup>1</sup>



- · More partnerships than any other competitor in the industry
- DONG Energy has been able to consistently divest 50% of assets during construction phase

## **Connecting the dots:** Shaping a double-digit IRR case in 18 months

Race Bank – a show case of value creation from the integrated business model Example

Strong buying power Innovative technology Superior standardised design ներ ဆိုး Synergies from O&M cluster 1st mover on 6.3 MW turbine<sup>1</sup> Fast re-consenting

June 2015 FID with double-digit IRR for DONG Energy



1. Siemens 6.0 MW platform with performance enhancing features delivering 6.3 MW effect



## **Overview of key financial accounting and tax recognition effects for Wind Power partnerships**

	Deal elements	Accounting	Development	•	Construction	•	Operation	Exam	ples
				▲ 12-24 m FID	Farm down			Westermost Rough (shared risk)	Burbo Bank Extension (EPC wrap)
SPA	Gain on shares	Other operating income <sup>1</sup>			<ul><li>SPA gain</li><li>No paid tax lo</li></ul>	ocally		•	•
СА	Construction agreement <sup>2</sup>	Revenue/COGS/ OPEX			During construct	At COD			•
СМА	Construction managemen agreement <sup>2</sup>	tRevenue/COGS/ OPEX			During construct			•	
OMA	O&M agreement	Revenue/OPEX					erations on accrual basis	•	•
PPA	Power purchase agreement	Revenue/COGS					erations on accrual basis	•	•
	Consolidation principle		100	%	$\rightarrow$	Pro-ra	ta	•	•

Recognition in income statement
 Paid tax

1. Gain on shares is not part of cash flows from operating activities, but part of cash flows from investing activities

Internal construction agreement gains and construction management agreement gains eliminated for accounting purposes are still subject to taxation in the entity
acting as constructor or construction manager

### Wind Power fact sheet

Denmark		Park	Installed	DE ow nership	Owned	Financial				
3Wh	Partners	capacity, MW	capacity, MV	share, %	capacity, MW	consolidation	Commercial operational date	Subsidy regime		Fixed feed-in tariff, DKK/MW
Anholt	Pension Danmark, PKA	400	400	50%	200	Pro rata	2013	Fixed feed-in tariff	20 TWh (5 TWh produced) <sup>2</sup>	1.05
-lorns Rev 2		209	209	100%	209	Full	2010	Fixed feed-in tariff	10 TWh (5.8 Tw h produced) <sup>2</sup>	51
Nysted	Pension Danmark, Stadtw erke Lübeck	166	166	42,75%	71	Pro rata	2003	Fixed feed-in tariff	2016 <sup>a</sup>	45
Horns Rev 1	Vattenfall	160	160	40%	64	Pro rata	2003	Market price + 100DKK/MWh <sup>3</sup>	Expiry after 20 years	
Middelgrunden <sup>4</sup>		20	40	100%	20	Full	2001	Market price + 100DKK/MWha	Expiry after 20 years	
Avedøre Holme+		7	11	100%	7	Full	2009 and 2011	Fixed feed-in tariff	20,200 full-load hours=	Market price + 25
Vindeby		5	5	100%	5	Full	1991	Market price	NA	
Sub total		967	990		576					
United Kingdom		Park	Installed	DE ow nership	Owned					CfD
GWh	Partners	capacity, MW	capacity, MV	share, %	capacity, MW	Consolidation	Commercial operational date	Subsidy regime	Subsidy expiry	GBP/MWh (Real 2012
London Array 1	E.ON, Masdar & CDPQ	630	315	25%	158	Pro rata	2013	ROC	2033	
West of Duddon Sands	Scottish Pow er Renew ables (Iberdrola)	389	389	50%	194	Pro rata	2014	ROC	2034	
Walney 1&2	PGGM & Ampere, SSE	367	367	50,1%	184	Full	2011 and 2012	ROC	2032	
Lincs	Centrica, Siemens PV	270	-	25%	68	One-line	2013	ROC	2033	
Westermost Rough	Marubeni & Green Investment Bank	210	210	50%	105	Pro rata	2015	ROC	2035	
Gunfleet Sands 182	Marubeni & Development Bank of Japan	173	173	50,1%	87	Full	2010	ROC	2030	
Barrow		90	45	100%	90	Full	2006	ROC	2025	
Burbo Bank		90	90	100%	90	Full	2007	ROC	2027	
Gunfleet Sands Demo		12	12	100%	12	Full	2013	ROC	2033	
Sub total, excl parks under construction		2.231	1.601		987					
Hornsea		1.200	1.200	100%	1.200	Full	2020 7	CFD	2036	140
Nalney Extension		659	659	100%	659	Full	2018 7	CFD	2033	15
Race Bank	Macquarie European Infrastructure Fund 5 & Macquarie Capital	573	573	50%	287	Full	2018 7	ROC	2037	
Burbo Bank Extension	Kirkbi, PKA	258	258	50%	129	Pro rata	2017 7	CFD	2032	15
Sub total, incl. parks under construction		4.921	4.291		3.262					
Germany										
GWh	Partners	Park capacity, MW	Installed	DE ow nership	Owned	Consolidation			Subsidy expiry	Subsidy expiry
			capacity, MV	share, %	capacity, MW		Commercial operational date	Subsidy regime	period 1	2025
Borkum Riffgrund 1	Kirkbi, William Demant	312	312	50,0%	156	Pro rata	2015	Fixed feed-in tariff	2023	
Gode Wind 1	Global Infrastructure Partners	330	330	50,0%	165	Pro rata	2016 7	Fixed feed-in tariff	2024	2026
Gode Wind 2	PKA, Industriens Pension, Lærerenes- & Lægernes Pensionskasse	252	252	50,0%	126	Pro rata	2016 7	Fixed feed-in tariff	2023	2026
Sub total, excl. parks under construction		894	894		447					
Borkum Riffgrund 2		450	450	100,0%	450	Full	2019	Fixed feed-in tariff	2027	2029
Sub total, incl. parks under construction		1.344	1.344		897					
Holland		Park	installed	DE ow nership	Owned					
GWh	Partners	capacity, MW	capacity, MW	share. %	capacity, MW	Consolidation	Commercial operational date	Subsidy regime	Subsidy expiry	Fixed feed-in tariff, EUR/MWI
Borssele 1 & 2		700	700	100,0%	700	Full	2020/21>	Fixed feed-in tariff	2035/2036=	72,3
Sub total, incl. parks under construction		700	700		700					12.
ous total, incl. parks under construction		700	700		700					
Divested offshore wind farms, but constructed by I	DONG Energys	106	106							
Totals		Park capacity, MW	Installed capacity, MW	0	wined capacity, MW					

Totals	Park capacity, MW	Installed capacity, MV	Owned capacity, MW	
Total capacity for operational parks	4.092	3.485	2.010	
Total capacity operational parks incl. installed but divested farms	4.198	3.591	2.010	
Total installed capacity incl. parks under construction + divested farms	8.038	7.431	5.435	

1. Assets in operation and assets where Final Investment Decision has been taken

2. By December 31, 2015

- 3. The supplement depends on the development of market price and is increased pro rata a market price below 260 DKK/MWh equals 100 DKK/MWh and over 360 DKK/MWh 0 DKK/MWh
- 4. DONG Energy has installed Middelgrunden (40 MW) and Avedøre Holme (10,8 MW), however DONG Energy has subsequently divested 50% of the turbines in Middelgrunden and one of the three turbines on Avedøre Holme. No partnerships on either of the parks
- The first and second turbines reached approximately 14,600 and 20,200 full-load hours, respectively, by December 31, 2015
- 6. Kentish Flats (90MW), Frederikshavn (11MW) and Tunø Knob (5MW)

7. Expected year of commissioning

8. After expiry of fixed feed-in-tariff period in 2016, Nysted will receive market price + supplement dependent on the development of market price which is increased pro rate - a market price below 260 DKK/MWh equals 100 DKK/MWh and over 360 DKK/MWh 0 DKK/MWH 9. Floor price of 39 EUR/MWh for up to 20 years

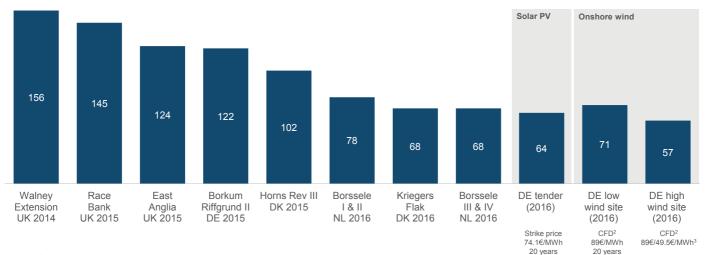
10. DONG Energy will, in accordance with the Dutch tender regulation, build Borssele 1 and 2 within four years from award (5 July 2016) with a flexibility of 1 year.



## Offshore wind shows rapidly declining costs across all markets and are almost on par with competing renewable technologies

#### Offshore wind costs<sup>1</sup>

Estimated at the year of contracting, EUR/MWh, 2016 prices



Sources: DECC; Danish Energy Agency; Energinet.dk; NEV

1. Levelised revenue (price) of electricity over the lifetime of the project used as proxy for the levelised costs to society. It consists of a subsidy income on top of market prices for the first years and a pure market income for the remaining years of the 25 years lifetime. Discourt rate 0.3 5% used to reflect society's discourt rate. Market income based on country specific public wholesale market price and the provide the restriction of the remaining years of the 25 years lifetime. Discourt rate 0.3 5% used to reflect society's discourt rate. Market income based on country specific public wholesale market price and the restriction of the remaining years of the 25 years lifetime. Discourt rate 0.3 5% used to reflect society's discourt rate the restriction of the remaining years of the remaining years of the 25 years lifetime. Discourt rate 0.3 5% used to reflect society's discourt rate. Market income based on country specific public wholesale market price and the restriction of the remaining years of the 25 years lifetime. Discourt rate 0.3 5% used to reflect society's discourt rate. Market income based on country specific public wholesale market price and the restriction of the remaining years of the 25 years lifetime. Discourt rate 0.3 5% used to reflect society's discourt rate. Market income based on country specific public wholesale market price and the restriction of the remaining years.

projections at the time of contracting. For comparability across projects a generic scope adjustment (incl. transmission and extra project development costs) has been applied 2. German sites are awarded premiums according to the wind resource (low wind wide), higher subsidy). Reference site defined as wind speed of 6.45m/s, for which BNEF's 2016 mid-range load factor for

 German sites are awarded premiums according to the wind resource (low wind yield, higher subsidy). Reference Germany (24%) is used. For high yield site load factor calculation: multiplied with 130% and 80% for low yield sites

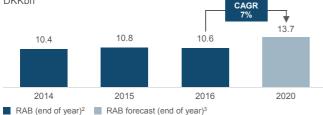
3. The high level is given for 5 years, hereafter 15 years with the lower level

## Regulatory framework provides for stable earnings



- · Cost-plus regulation capped by historical tariffs
- Exceed Revenue Cap compensation to customers
- Exceed Return Cap Revenue Cap will be reduced after 3 years

### Roll out of ~1 million remote power meters drive RAB growth

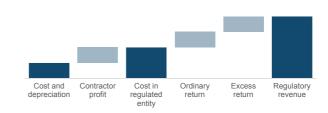


1. Revenue Cap is equivalent to the Danish regulatory term 'Indtægtsramme'

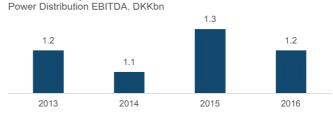
2. The figures indicate values from the latest regulatory financial statements

3. Return Cap is equivalent to the Danish regulatory term 'Forrentningsloft'

Value creating business model Illustrative



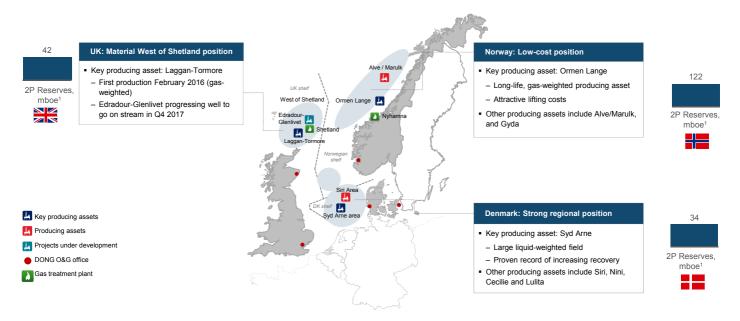
#### Stable earnings



**DONG** energy

## Focused position centred around three high-quality assets

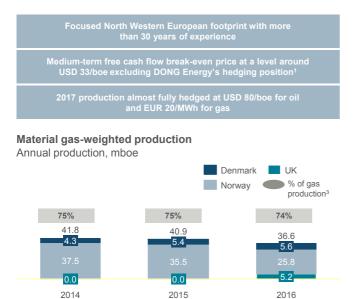
 $\frac{\circ}{\bowtie}$ 



1. DONG Energy Reserve Statement for the year ending 31 December 2016. Rounded numbers.

2. Pre FID development licences and exploration licences not presented on the map

### High-quality, low-risk and low-cost asset portfolio



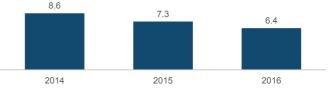
1. CF breakeven of ~35 USD/boe communicated throughout IPO presentations, covering 2017-2020

2. DONG Energy Reserve Statement for the year ending 31 December 2016

3. Gas production as a proportion of total production (gas plus liquids). Liquids defined as oil, NGL and condensate

4. Lifting costs calculated as the sum of OPEX and processing cost divided by working interest production

Attractive lifting costs across portfolio



energy

DONG

# A leading North Sea O&G company measured in returns and cash generation - already well on the way

Ongoing transformation has created in a lean, cash generating business

#### Continuous Business Improvement

Reshaped organisation

Targeted investments<sup>1</sup>

#### Improving Cash Flows

Significant cost reductions
 Contract negotiation
 Activity adjustments
 Increased efficiency
 Targeted overhead reductions
 Exploration and Development projects

Divest. defer or farm-down non-core assets

- Investments kept to a minimum

O&G's delivering on transformation while staying focused on safety



1. Investments will be focused towards field extensions or build-out near existing producing assets and already initiated developments, including at or in the Hejre area

2. CF breakeven of ~35 USD/boe communicated throughout IPO presentations, covering 2017-2020

### Hejre

#### **Project status**

- The platform EPC contract has been terminated. As a result, the platform will not be completed and the Hejre project in its current form has been stopped
- DONG Energy will be controlling the termination process and will assume potential financial up- and downsides arising out of the EPC contract and the termination process
- In Q1 2016 DONG Energy carried a provision of DKK 2.5bn. to cover risks associated with the discontinuation of the Hejre project, which included an elimination of the stabilisation plant
- The provision was recognised as onerous capital expenditure contracts of DKK 1.1bn., other provisions of DKK 0.8bn. and decommissioning provisions of DKK 0.7bn
- Other provisions of DKK 0.8bn. was recognised in EBITDA in Q1 2016, however the total provision relating to the Hejre project was not affected as a corresponding reversal of the previous provision recognised at year end 2015 for onerous capital expenditure contracts was made

## Two possible scenarios for the license going forward

DONG Energy and Bayerngas will jointly assess if the license should be abandoned or a redevelopment could lead to a commercially viable project

2

#### Abandonment

 DONG Energy's assessment is that the Q1 2016 provision will provide sufficient coverage in an abandonment scenario

#### Monetisation through redevelopment

- If an economically attractive solution can be found, DONG Energy will seek to monetise the project in the best possible way
- In any redevelopment option, DONG Energy will seek to reduce equity exposure and review a new operatorship model





Henrik Brünniche Lund Head of Investor Relations HEBRL@dongenergy.dk Sabine Lohse IR Officer SABLO@dongenergy.dk Rasmus Keglberg Hærvig IR Officer RAKOL@dongenergy.dk

**T**TI