

# **DONG Energy intro. at "go-home-meeting"**

Thursday 20 March 2014, 16.00 – 17.30

Gentofte, GTF – H2.1.a

# Agenda

- Safety introduction and practicalities
- Short introduction to DONG Energy Wind Power

# Safety introduction

- No planned exercises
- Emergency exits from Room H2.1a
- Muster point in front of the reception



# Practicalities

- Coffee, beverages and fruit – please help yourselves
- Toilets – out the doors, to the left and to the left

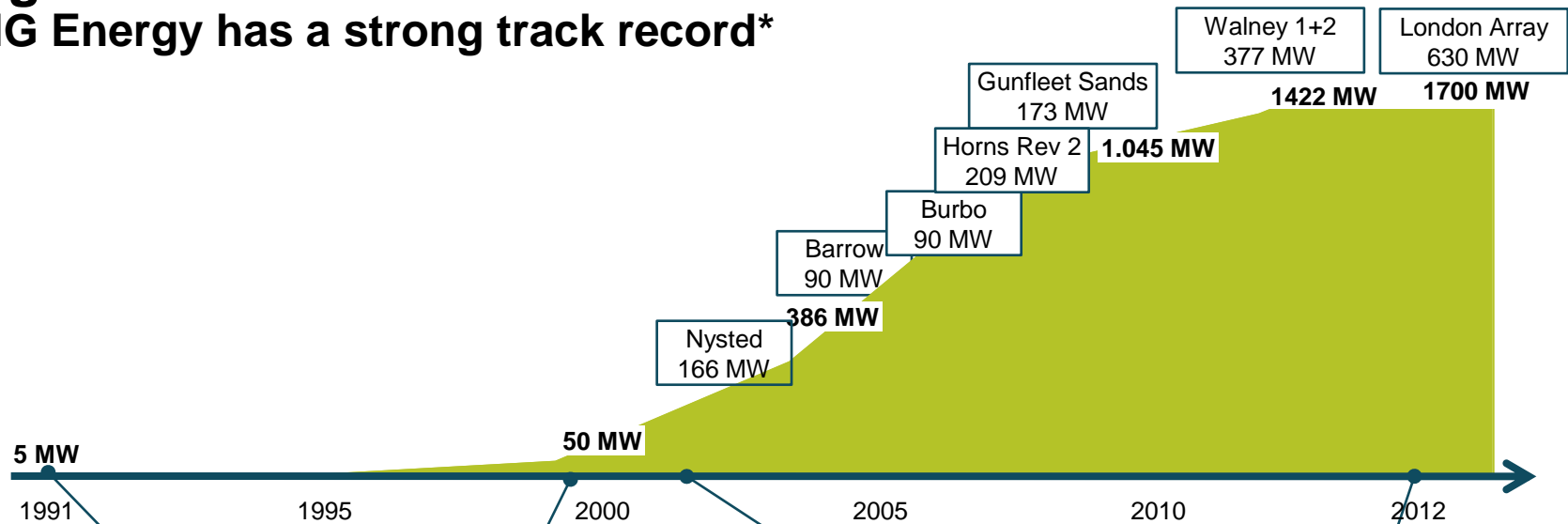


# Agenda

- Safety introduction and practicalities
- Short introduction to DONG Energy Wind Power

# Background

- DONG Energy has a strong track record\*



## Examples

**Vindeby**


The world's first offshore wind farm



Turbine capacity:	0.45 MW
Nr. of turbines	11
Rotor diameter	35 m
Distance to shore	1.8 km

**Middelgrunden**


The world's first large offshore farm



Turbine capacity:	2 MW
Nr. of turbines	20
Rotor diameter	72 m
Distance to shore	4.7 km

**Horns Rev 1**


First real large scale offshore wind power plant



Turbine capacity:	2 MW
Nr. of turbines	80
Rotor diameter	80 m
Distance to shore	18 km

**London Array**

Recent installed wind power plant



Turbine capacity:	3.6 MW
Nr. of turbines	175
Rotor diameter	120
Distance to shore	20 km

\*) Actual ownership share is lower due to divestments 6

# Our wind power portfolio



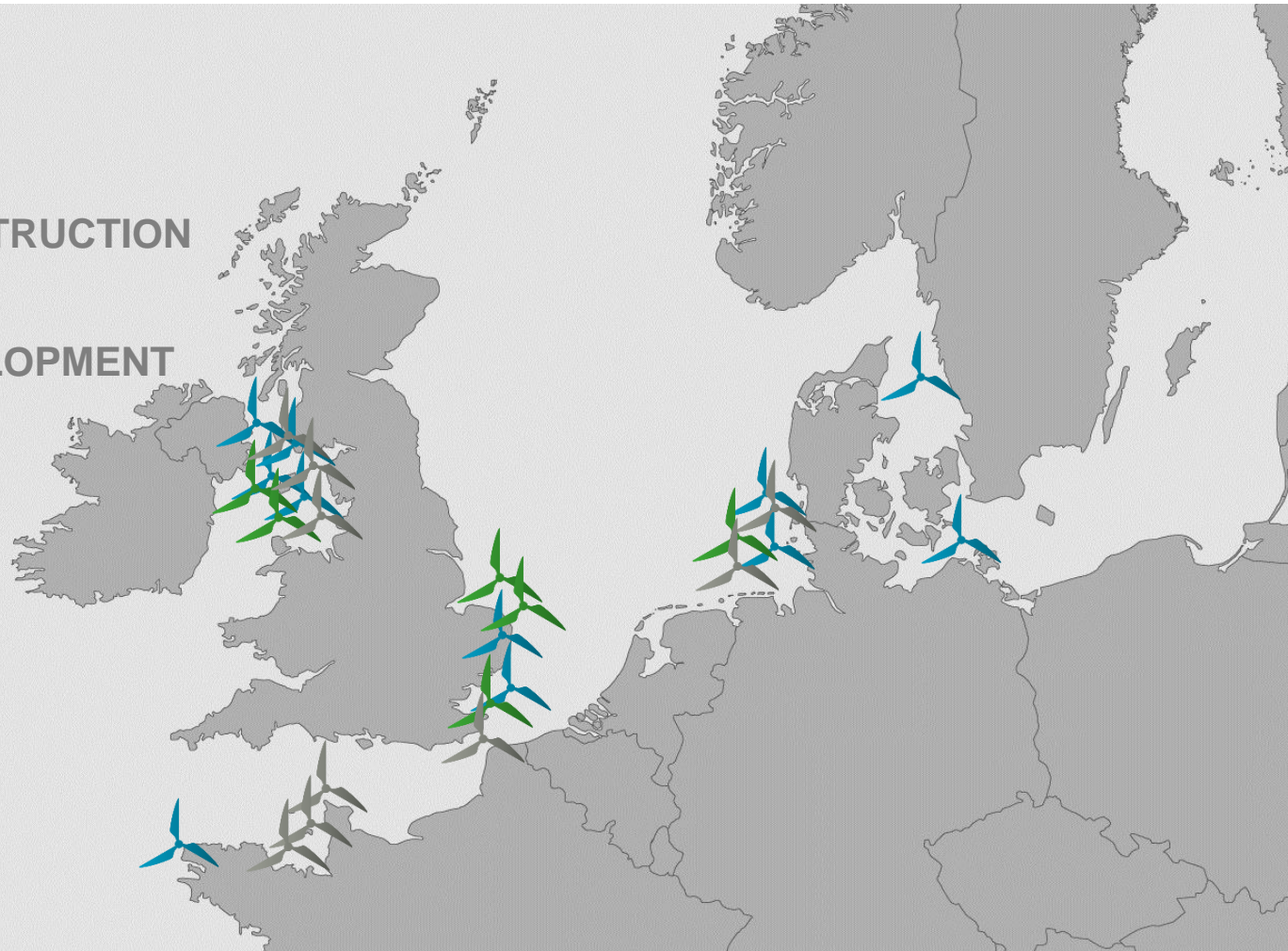
IN OPERATION



UNDER CONSTRUCTION

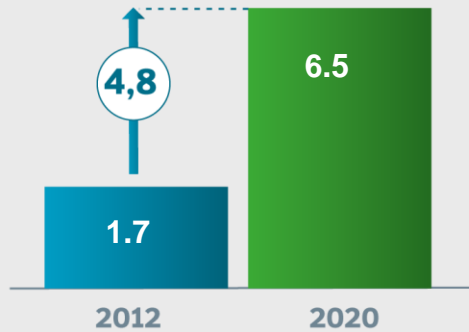


UNDER DEVELOPMENT



# Our strategic targets are ambitious

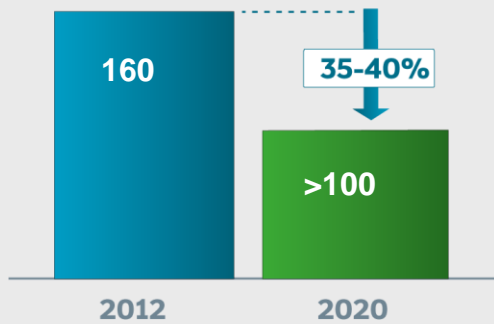
*Installed gross capacity (GW)*



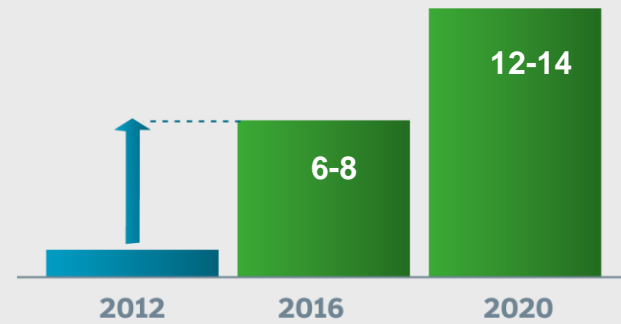
*Lost time injury frequency (LTIF)*



*Levelized Cost of Energy (LCoE)*



*Return on capital employed (ROCE%)*

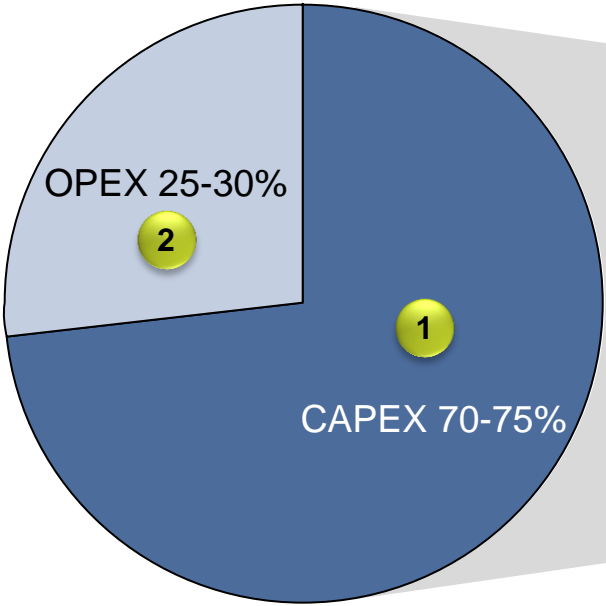




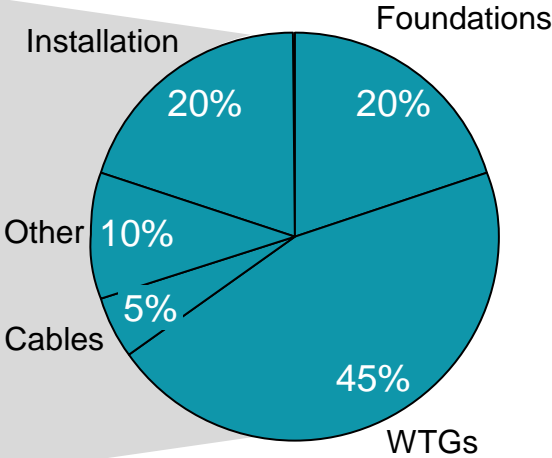
# Contributions to CoE reduction need to come from all parts of the supply chain

## Key levers for LCoE

- 1 CAPEX
- 2 OPEX
- 3 Yield
- 4 Cost of capital



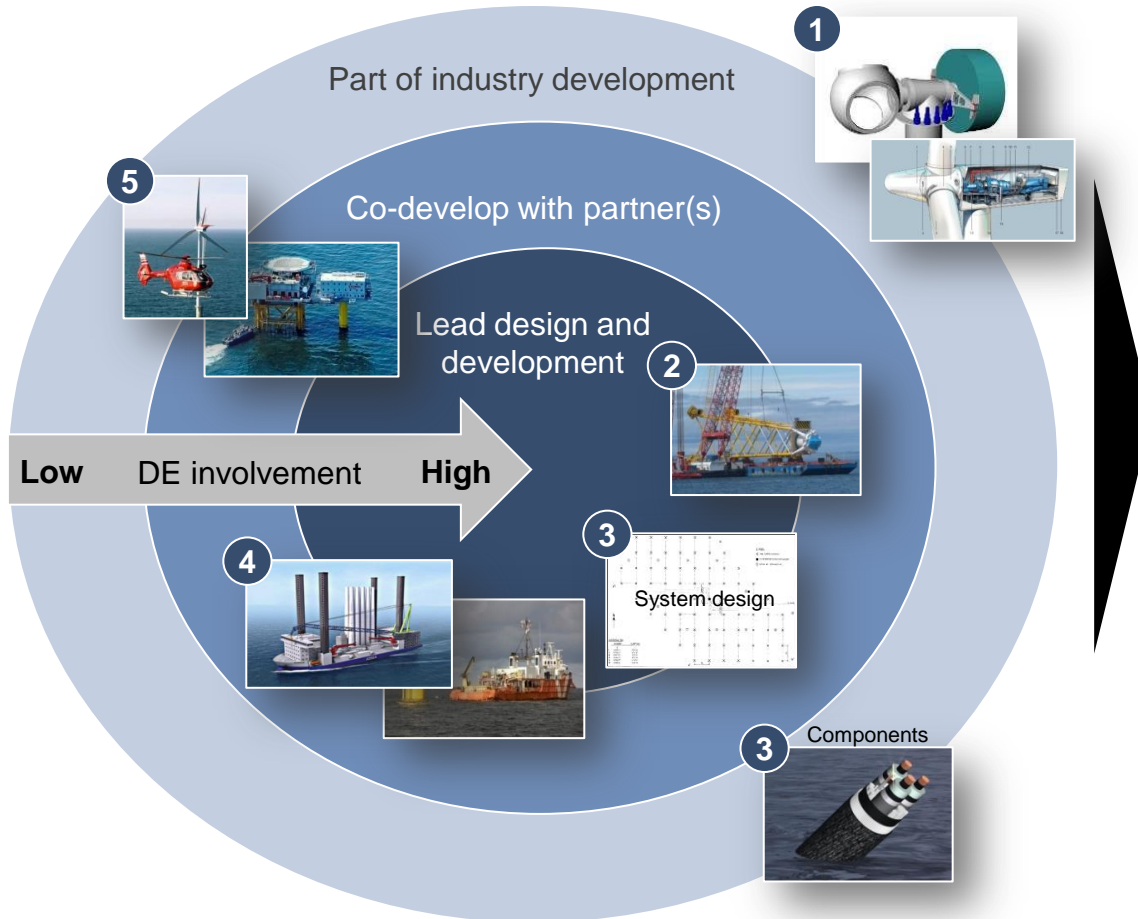
Distribution between CAPEX and OPEX for an offshore wind power plant (Levelised Cost of Energy)



Approximate split of CAPEX

# DONG Energy's approach

## - design involvement



## Design approach

### 1. WTG

- Follow and influence development and prepare for new technologies

### 2. Foundations

- Lead innovation with selected partner(s)

### 3. Electrical Infrastructure

- Lead innovation and design optimal electrical infrastructures
- Follow and influence industry development of electrical components and equipment

### 4. Installation

- Co-lead development of solutions with selected partners

### 5. O&M

- Co-lead development of solutions with selected partners