

**innogy SE**

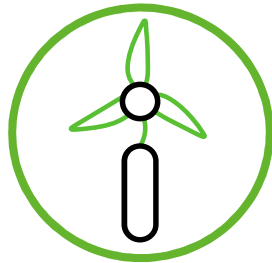
Company overview

innogy SE · April 2019

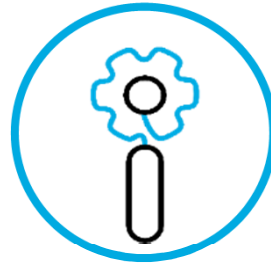
innogy is one of Europe's leading utility companies, with operations across the entire electricity value chain



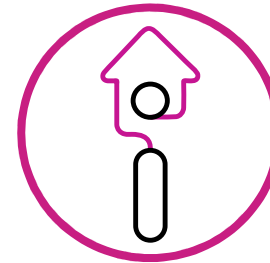
### Renewables



### Grid & Infrastructure



### Retail



Solar, offshore wind, onshore wind, hydro, storage and others

Electricity and gas transmission and distribution

Energy sales to business and domestic users

World's 2nd largest offshore wind operator<sup>1</sup>

No.1 distribution grid in Europe

No.1 market position in 5 countries<sup>2</sup>

#### innogy key statistics (end 2017)<sup>3</sup>

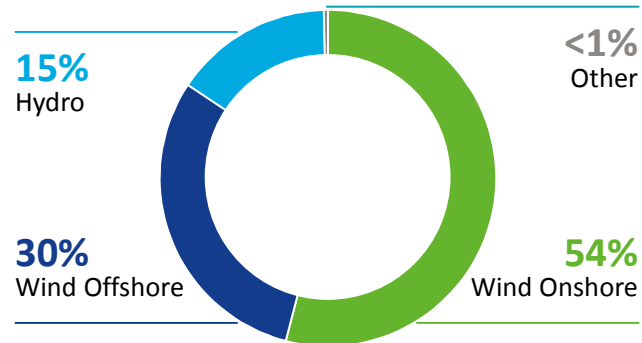
- ✓ Business activities in 16 countries
- ✓ USD \$22bn market capitalisation
- ✓ 23 million customers across Europe
- ✓ USD \$52bn in revenues (2017)
- ✓ USD \$5.2bn in adjusted EBITDA (2017)
- ✓ 42,393 employees
- ✓ USD \$9bn planned net investments for 2018-2020

1 – Pro-rata installed capacity installed and in operation | 2 – Market positions based on volumes, on customer numbers | 3– FX rate on 31/12/2017 of EUR:USD = 1.2006

# innogy operates an end-to-end business model for renewables, with a focus on competitive technologies

## Well-diversified 3.5GW (pro-rata) renewables portfolio

Capacity Split by Technology<sup>1</sup>



## innogy's has end-to-end track record across the entire offshore wind lifecycle

### 1 Develop

Working closely with **Government** and **local partners**

### 2 Build

Dedicated, **experienced team** rotating from project to project

### 3 Operate

15 years reputation as **trusted O&M service partner** for joint ventures

### 4 Own

**Long term investor** building trust with market & regulators



innogy is the world's 2nd largest offshore wind developer, working in a series of successful partnerships

2.5 GW of operational offshore wind projects				
Project	Location	Capacity	COD	Current shareholders
North Hoyle	UK	60MW	2004	GREENCOAT UK WIND 100% innogy Operator
Rhyl Flats	UK	90MW	2009	innogy 50.1% GREENCOAT UK WIND 24.95% Green Investment Bank 24.95%
Greater Gabbard	UK	504MW	2012	innogy 50% SSE 50%
Thornton Bank I-III	Belgium	325MW	2013	C-Power 100% (innogy owns a 27% stake in the consortium)
Nordsee Ost	Germany	295MW	2015	innogy 100%
Gwynt y Môr	UK	576MW	2015	innogy 50% SW/M 30% SIEMENS 10% Green Investment Bank 10%
Nordsee One	Germany	332MW	2017	NORTHLAND POWER 85% innogy 15%
Galloper	UK	336MW	2018	innogy 25% Green Investment Bank 25% SIEMENS 12.5% MACQUARIE 12.5% Sumitomo Corporation 12.5%

1st ever commercial scale offshore wind project

World's 2nd largest offshore wind project at COD

Recently completed on budget and delivered 2 months early

3.6 GW development pipeline				
Project	Location	Capacity	COD	Current shareholders
Triton Knoll	UK	860MW	2021	innogy 59% POWER 25% KANSAI ELECTRIC POWER CO. INC. 16%
Kaskasi	Germany	325MW	2022	innogy 100%
Nordsee 2&3	Germany	~650MW	2022	innogy 13.5% NORTHLAND POWER 86.5%
Sofia	UK	1200MW	2024	innogy 100%
Dublin Array	Ireland	600MW	TBD	innogy 50% Saorgus Energy Ltd 50%

Won via competitive auctions

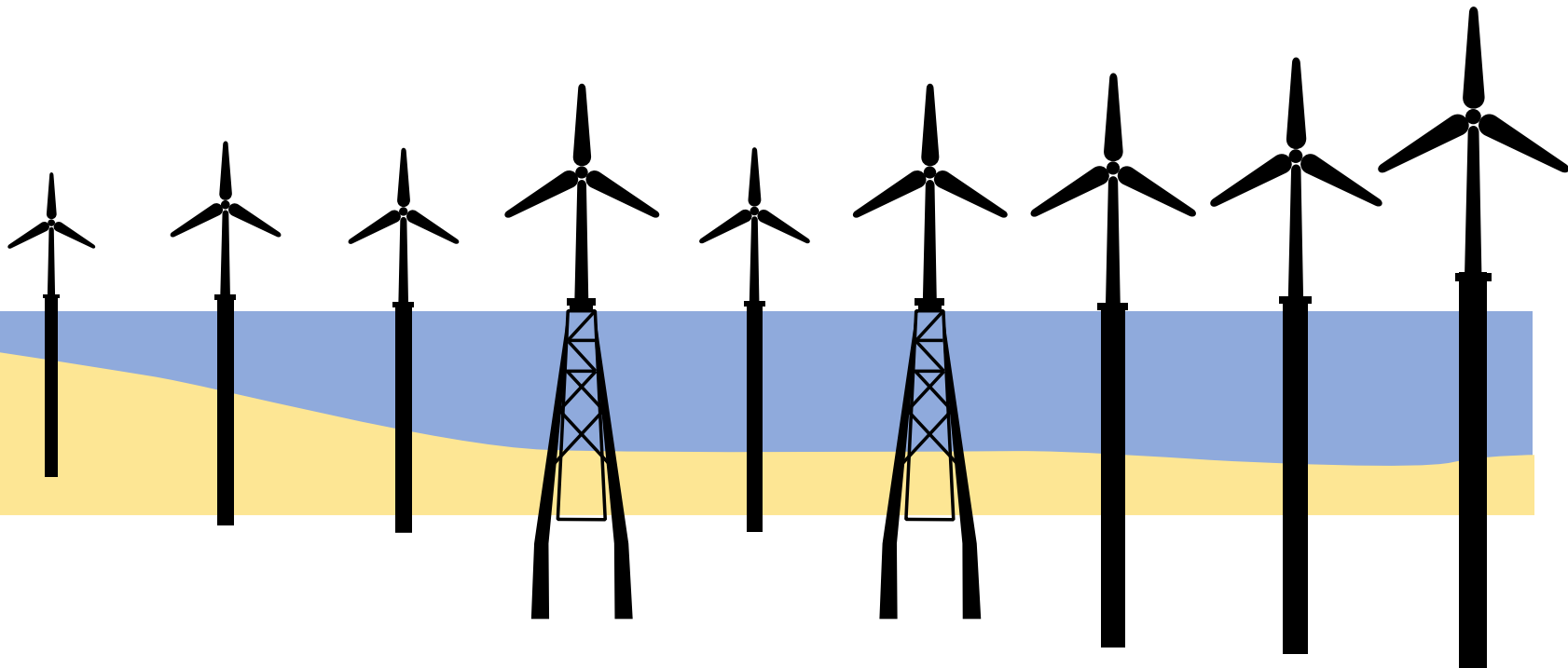
innogy is the world's 2nd biggest developer and operator of offshore wind farms<sup>1</sup>

1 – Pro-rata installed capacity and in operation  
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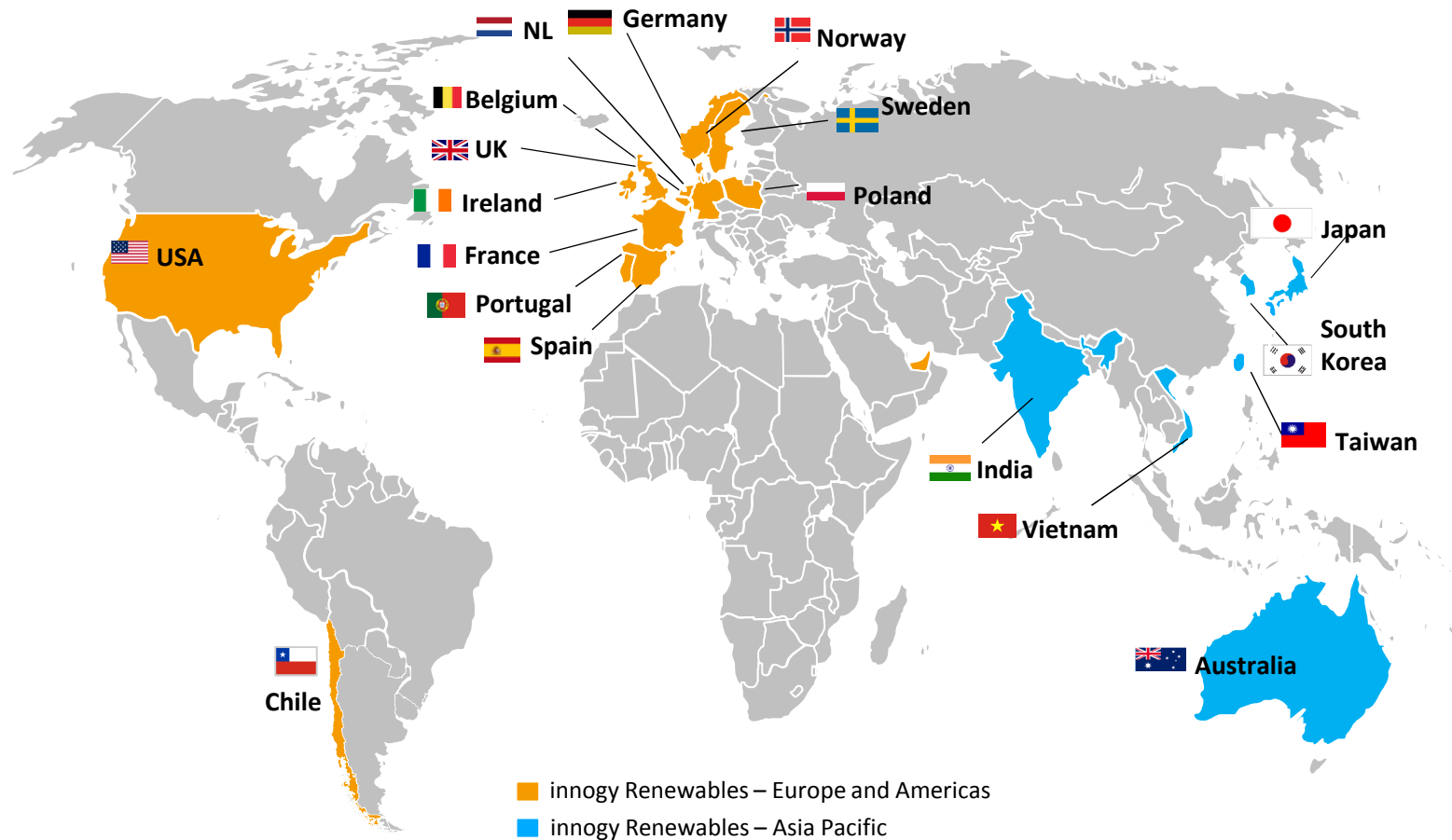
innogy developed Europe's supply chain from infancy over 15 years ago, delivering bigger and deeper wind farms

Project	North Hoyle	Rhyl Flats	Greater Gabbard	Thornton Bank	Gwynt y Mor	Nordsee Ost	Nordsee One	Galloper	Triton Knoll
(Expected) CoD	2004	2010	2012	2009-2013	2015	2015	2017	2018	2021
Capacity	60MW	90MW	504MW	325MW	576MW	295MW	332MW	353MW	860MW
Turbines	30 x 2.0MW	25 x 3.6MW	140 x 3.6MW	54 x 5-6.15MW	160 x 3.6MW	48 x 6.15MW	54 x 6.15MW	56 x 6.3MW	90 x 9.5MW
Water Depth	7-11m	10-15m	24-34m	12-30m	12-28m	22-26m	26-29m	27-36m	15-24m
Distance to shore	7km	8km	23km	28km	13km	60km	45km	30km	45km





We are developing renewables in a number of countries worldwide, with a major focus on Asia



## Contact us



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