Offshore – Ausbau 2023 ff. Was ist zu beachten und wie können Sie profitieren?

Till Schwarzlose

RWE RWE Energy Talks 2023

We are #2 Offshore player globally with vast experience in the business ...



Our offshore assets in operation already amount to 3.3GW ...

Assets

3.3GW² in operation





RWE footprint in Offshore Germany

... and we are well on track expanding our business globally

~18.5 GW¹ in development & under construction 1 Awel y Môr 2 **Five Estuaries** 3 UK. 353 MW¹ (88 MW²) North Falls **Dogger Bank South** 5 UK. 3.000 MW1 U.S. **Dublin Array** IE. 900 MW¹ (450 MW²) N-3.5 16 N-3.6 8 N-3.7 DE. 255 MW¹ N-3.8 10 U.S. Europe APAC

In development



RWE footprint in Offshore Germany

RWE

Green power produced by offshore wind: a perfect match for industrial demand in Germany



More than 19 GW expected to be auctioned in two different pathways in next 3 years

Auction schedule and envisaged buildout according to FEP1(GW/year)



RWE

According to WindSeeG, sites will be distributed via two different auction systems – experience crucial for success

Pre-investigated sites (Beauty Contest)	Not pre-investigated sites (CfD)
 Auction publication: 01 March Auction date: 01 August Auction regime: Beauty Contest 	 Auction publication: 01 February Auction date: 01 June Auction regime: 1-sided CfD/dynamic bidding in case of multiple zero bids ("CfD")
60 pts.Price bid110 pts.*Contribution to decarbonization of offshore development	1 st Stage 1-sided CfD price bid + prequalification criteria: min. 20% of auction volume shall be subject
10 pts. Declaration re. PPA with third parties	to a PPA share for min. 5 years
10 pts. Share of innovative foundations instead of impulse ramming and gravity foundations	2 nd Stage 2 nd
10 pts. Share of apprentices in total workforce	component.

Both pathways are fully merchant, thus entirely available for providing power directly to the industry. Both pathways are affected by an uncapped negative bidding component

Majority of future projects to be located in Germany's North Sea



RWE well positioned for 2023 auctions which are offering unprecedented 8.8GW

Location overview for 2023 auctions



Overview of project bid teams for 2023 auction

Category	Auction Date	COD	Site	Capacity (MW)
Not pre- developed sites (CfD)	June 2023	2030	N-11.1	2,000
			N-12.1	2,000
			N-12.2	2,000
			0-2.2	1,000
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Pre- developed sites (Beauty Contest)	Aug 2023	2028	N-6.6 ¹	630
			N-6.7	270
			N-3.5 ²	420
			N-3.6 ²	480

1 Vattenfall with step-in right 2 RWE & NPI JV (Nordseecluster) with step-in right.

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Supply chain expected to be a big challenge achieving ambitious Offshore build-out targets across EU

Category	Current capacity in EU	 Capacity needed to meet 2030 EU targets:		
Turbines	700 units/year	Up to 1,300 units/year	(*2)	
Foundations (bottom fixed)	Up to 300 units/year	Up to 1,200 units/year	(*4)	
Foundations (floating)	Up to 10 units/year	Up to 100 units/year	(*10)	
Vessels (installations, cable)	68 Vessels in operation	124 Vessels in operation	(*2)	

Projects from 2023 auctions in Germany with advantage as they would be first in line approaching/securing supply chain capacities

Technological know how and deep understanding of regulatory and commercial boundary conditions crucial for winning attractive projects

Success Factors



Deep understanding not only of **local wind conditions** but also the **effects of large-scale long-term build-out in the north sea crucial** to **reliably estimate annual energy production**



Thorough understanding of site-specific conditions important to understand attractiveness and strategic relevance of sites in order to determine financially reliable bids



Dynamic auction and beauty contest require vast global but especially German experience in order to be able to **successfully develop projects along both auction pathways**



Capability to provide structured offtake solutions beyond "pay as produced" (e.g. Baseload)