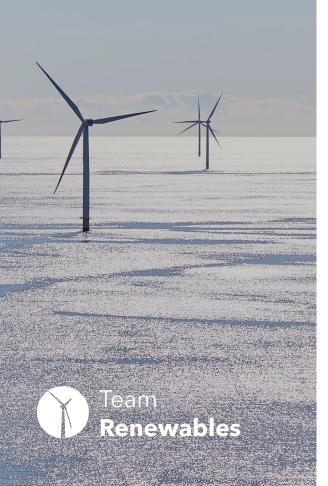








15 slides excl. front page and breaker slides



### Two-fold strategy to secure market leader position

Targeting +8 GW of offshore wind capacities through a two-fold auction strategy approach



#### **Challenges**

Changing climates are severely impacting the world's environment and biodiversity, while the offshore wind industry is affected by supply chain challenges, increasing competition and regulatory barriers.

Team Renewables initiates a strategic plan to support Ørsted in realising 2030 ambitions



#### **BLUEPRINT '30 Objective**

Figure out how Ørsted can best reach our target of 30 GW offshore wind by 2030, while ensuring a healthy financial business and industry



#### **BLUEPRINT '30 Strategy**

The Core Strategy approach is centered around established core offshore wind markets, and differentiated by offering battery system integration. The Growth Strategy approach is focused on East Asia, and differentiates the offering through local content



#### **BLUEPRINT '30 Impact**

The implemented strategy complies with the outlined capital constraints of 200 DKKbn while accommodating Ørsted's stakeholder. Ørsted's offshore wind expansion through the core and growth strategies underpins the company's offshore wind market leader position by 2030

Targeted awarded capacity 8 GW



Growth • • 3 GW, 20.1% win rate

Total capital commited DKK 170.9bn



### Agenda

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## The offshore industry has developed significantly and continues to grow

Ørsted is the global offshore wind market leader





Ørsted global offshore wind position

With comprehensive technological knowledge



Offshore market growth until 2030

Driven by rising political momentum



Potential floating share of offshore wind in 2050

Enabling build-out of renewables in areas previously inaccessible



Decrease in offshore LCOEs over the past decade

Making offshore wind competitive

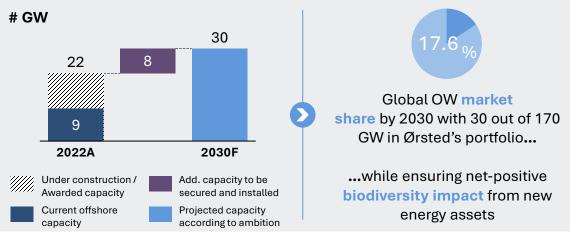
# Ørsted is leading the offshore wind industry with ambition to grow

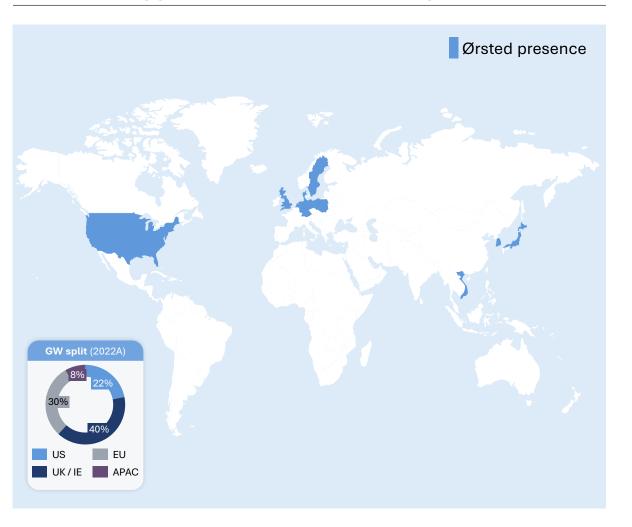
Ambition to grow portfolio installed capacity to 30 GW by 2030

Ørsted to continue expansion with market leadership position

Ørsted is mostly present in western nations and parts of East Asia









### Offshore wind is becoming increasingly competitive and advanced

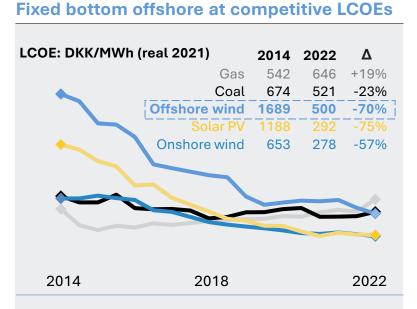
Core market

East Asia opportunities

Taiwan and Japan as key new markets

New technologies

Floating technology as a key player



Offshore wind has achieved 70% reduction in LCOEs

Offshore wind has become more competitive than gas and coal, which has resulting in increased competition from oil majors:













Taiwan

Wind speeds >11 m/s<sup>1</sup>

NCF<sup>2</sup> expected **>50**%

Target by 2040 of **40 GW** 

Potential corporate PPA providers:





Japan

Wind speeds >10 m/s<sup>1</sup>

NCF<sup>2</sup> expected **>50**%

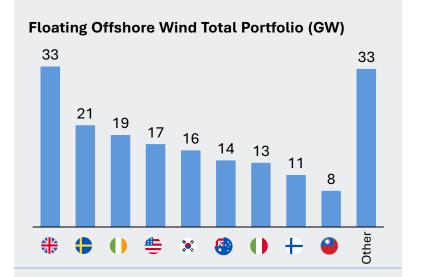
Target by 2040 of **45 GW** 

Potential corporate PPA providers:











Global floating offshore wind **pipeline of 185 GW** 



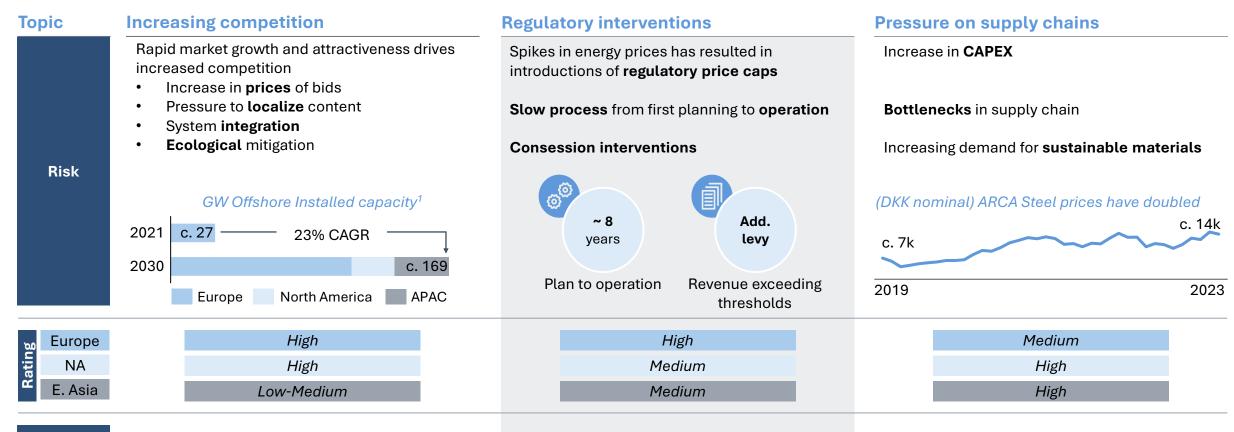
Floating market share of 16% by 2050



Floating offshore wind **enables new seabed targets** previously unviable

# Ørsted needs to overcome inherent offshore wind industry challenges

Different markets have slightly different risk profiles related to the maturity of the offshore industry







Portfolio **scale** edge on competitors, **know-how advantages** 



Explore **new markets**, Leverage points of **differentiation** 



**Continuous dialogue** with governments in the active markets



Hedging commodities to reduce unexpected CAPEX increases



In advance **volume agreements** with
suppliers

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#### Impact

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#### Conclusion

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Project Walney, U.K., Offshore Wind



STRATEGY FOR 2030 EXECUTIVE INSIGHTS BLUEPRINT '30 IMPACT SUMMARY

### BLUEPRINT '30 strategy will secure a future for Ørsted Offshore Wind

A two-fold approach to secure a valuable pipeline through the Core Strategy and Growth Strategy

A Core Strategy to leverage Ørsted's strong position in core markets

A Growth Strategy to secure future pipeline in new markets

#### Core technologies in core markets with high competition

Denmark, Germany and the United Kingdom



#### Differentiated bidding through system integration

Battery system integration



...and standard initiatives

#### Core and advanced technologies in new markets

Japan and Taiwan, including floating



#### Differentiated bidding through local content

Local procurement of foundation, cables and contractors







...and standard initiatives





## The Core Strategy will utilize core technologies in core markets

Ørsted has extensive experience in DK, DE and the UK



**Denmark:** 5.1 GW fixed bottom to be auctioned

Germany: 25.8 GW fixed bottom to be auctioned

UK: 8.0 GW fixed bottom to be auctioned

0

Ørsted has a proven project delivery model in core markets

Strong regulatory support Ørsted has deep understanding of the energy systems

Ørsted to utilize the core competency of the firm to deliver significant amount of offshore wind capacity in core markets

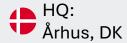
The leading offshore wind supply chain is found in Europe

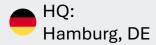
Home continent to major WTG suppliers

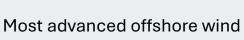




EXECUTIVE







Ørsted to leverage strong partnerships with WTG suppliers

supply chain worldwide

**High competition from majors** 

**BLUEPRINT '30** 



























Large energy majors are increasingly allocating capital towards renewables Competitors'
capabilities and
credentials are mostly
in Europe

Ørsted to differentiate offering by utilising cross-technology capabilities





DE and UK energy systems are affected by

constraints on transmission lines

Energy is lost due to distance between supply

and demand

Battery system

integration

## The Core Strategy will win bids by offering valuable system integration

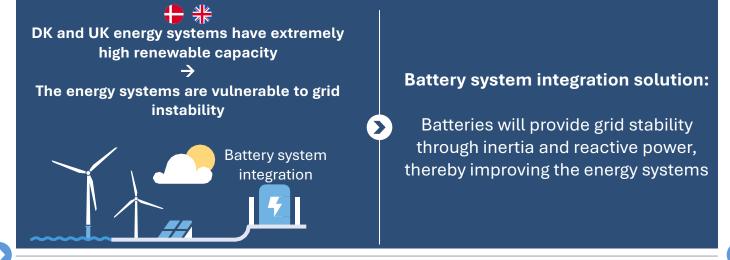
**Differentiated bidding through** system integration

The differentiated DK, DE, NL bidding strategy will emphasize

system integration<sup>1</sup>

Auction Value UK parameter DΚ DE add Price Local content **System** integration Ecological mitigation Sustainability

Ørsted will win bids by including battery system integration in order to improve the energy systems through grid stability and mitigation of constraints on transmission lines





#### **Battery system integration solution:**

Batteries will consume energy during grid constraints, and then transfer the energy later when the transmission lines are no longer constrained

Ørsted's differentiated contribution:

SUMMARY

Significantly improving the energy systems by including needed system integration solutions in the bid

## The Growth Strategy will focus on new markets with low competition

Ørsted to advance offshore wind in East Asia while only facing limited competition



# Japan – 8.9 GW to be auctioned

• 5.5 GW fixed bottom, 3.4 GW optional

Taiwan – 6.0 GW to be auctioned

• 3.0 GW fixed bottom, 3.0 GW optional

3.

industry



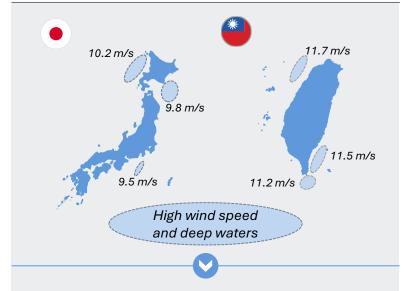
1.

Synergies with Ørsted existing development portfolio (Japan, South Korea, Taiwan) 2.

Low Ørsted has competition experience in and strong creating and regulatory advancing support offshore wind

Becoming the industry leader in East Asia presents a growth opportunity post 2030

Ørsted will advance floating offshore capabilities to enable better wind resource



#### Japan

Clear corporate
offtake demand with
supportive
government, however
unmature offshore
wind market

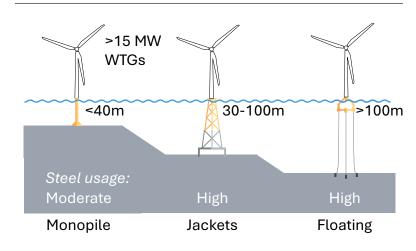
#### **Taiwan**

EXECUTIVE

One of the best offshore wind resources in the world, however challenged geopolitical situation

**East Asian offshore wind opportunity seized** with a combination of fixed and floating

# Ørsted will mitigate supply chain challenges through strategic procurement





Strategic procurement through global Ørsted competencies of >15 MW WTGs from:



# Foundations and cables

Local procurement to ensure local benefits Ørsted to invest in local production facilities (see next slide)

Supply chain issues to be mitigated through strong partnerships and local suppliers



Technical Mgmt. II

Technical Mgmt. ...

### The Growth bids will be won by providing significant local investments

Differentiated bidding through local content

Ørsted can greatly benefit societies from local procurement and advancing local technical capabilities

**EXECUTIVE** 

The differentiated East Asia bidding strategy will emphasize local content<sup>1</sup>

Auction
parameter Japan Taiwan add

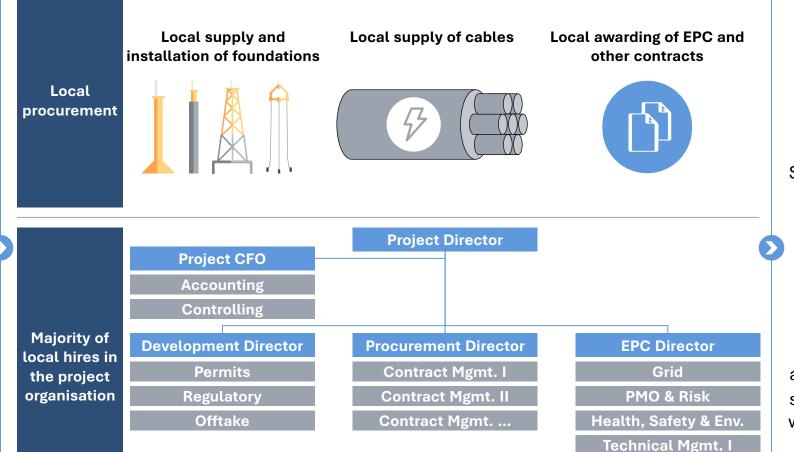
Price

Local
content

System
integration

Ecological
mitigation

Sustainability



Ørsted's differentiated contribution:

1.
Significant upskilling of local hires and procurement of key deliverables from local companies

Shaping a financially healthy and environmentally sustainable offshore wind industry in East Asia region

Orsted

Local hires

### Agenda

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# BLUEPRINT '30

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#### **Impact**

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BLUEPRINT '30 enables high impact in	Ill realize the strategy through comprehensive bid structure			fog assumptions and key characteristics  INT 30 strategy to follow principles for sustainability	
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### BLUEPRINT '30 enables high impact in both core and new markets

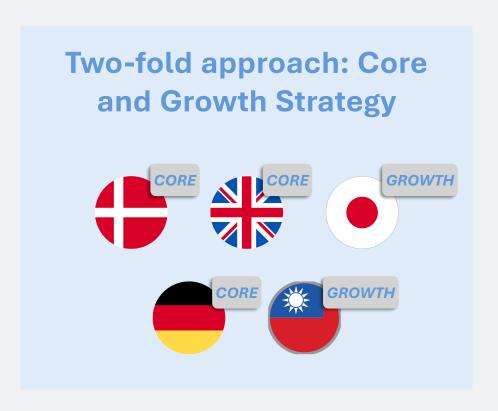
And secures financial and environmental health

Additional capacity constructed and installed by 2030, in accordance with the ambitions of Ørsted

**14.9%** Total Implied win rate, with variation within each market cluster

**170.9bn**\*\*DKK Combined DEVEX and CAPEX, including Sustainability and biodiversity initiatives, tech innovation and Local content differentiation points

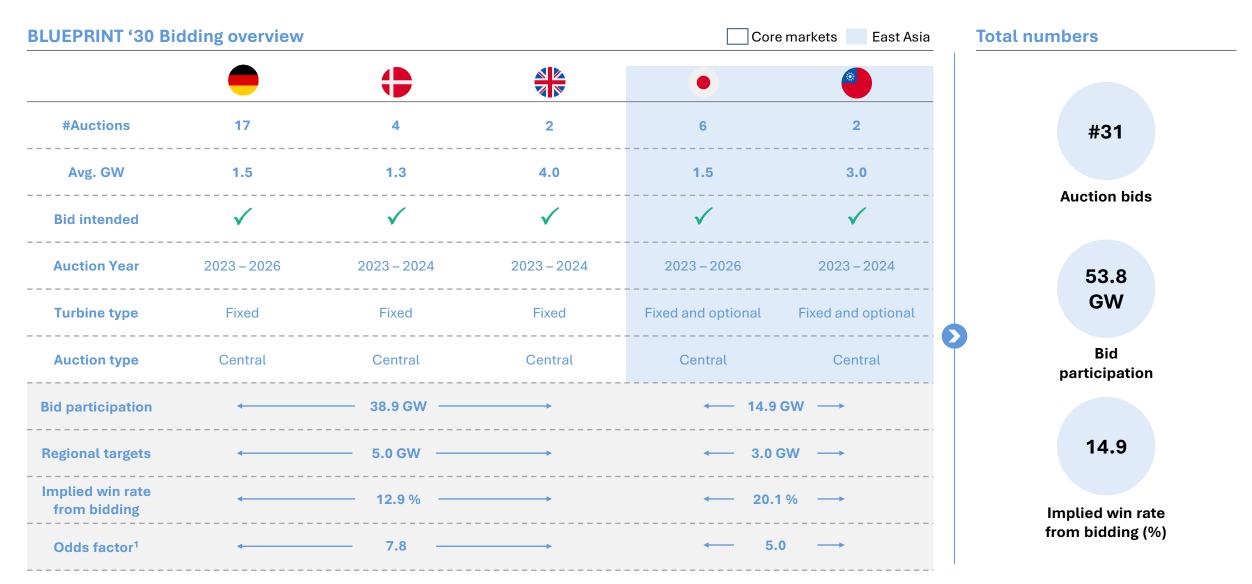
**7 – 9%** Unlevered lifetime IRR, taking WACC spread intro consideration to ensure financial health





EXECUTIVE

### Ørsted will realize the strategy through comprehensive bid structure

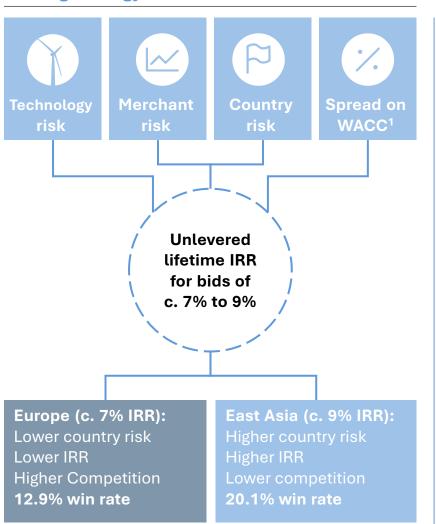


ASSUMPTIONS EXECUTIVE INSIGHTS BLUEPRINT '30 IMPACT SUMMARY

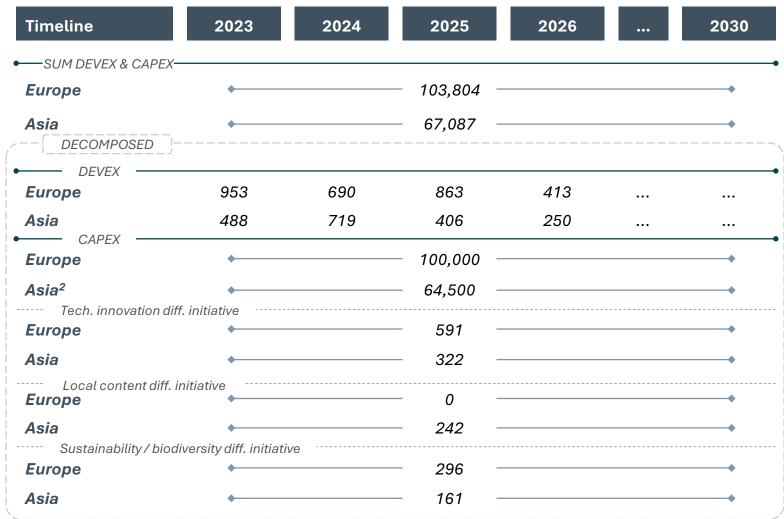
### Underlying assumptions and key characteristics

The implementation of BLUEPRINT '30 complies with outlined capital constraints while delivering satisfying returns

#### **Bidding strategy on win**



#### Yearly capital allocation (DKKm)



SUSTAINABLE INDUSTRY EXECUTIVE INSIGHTS BLUEPRINT '30 IMPACT SUMMARY

## **BLUEPRINT 30** strategy to follow principles for sustainability

**Green transformation for people** 

#### Principles for sustainability as integrated part of the business



#### Key focus areas

- A Science-aligned climate action
  - Green energy in balance w. nature D Enabling sustainable governance

#### Principles for a environmentally sustainable industry

- . Minimizing cement usage in turbine foundations
- II. Sourcing sustainable steel
- III. Commitment to recycle wind turbine blades
- IV. Ensuring biodiversity stays unharmed
- V. Increase marine life near offshore parks

#### Sustainable offshore wind industry worldwide





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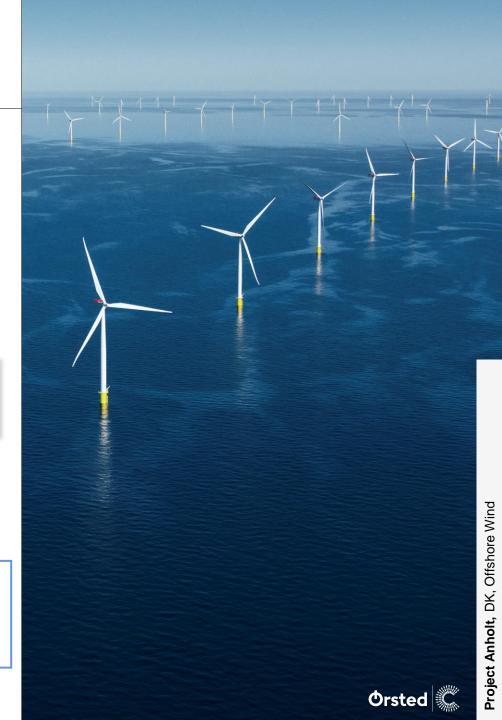


#### Conclusion

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## Concluding on the BLUEPRINT '30 objective

Reaching 30 GW on offshore wind capacity

Asks from Ørsted	BLUEPRINT '30 strategy
How should Ørsted prioritise its efforts to best reach its 2030 target of 30 GW offshore wind capacity, while helping to ensure a healthy financial business and industry?	<ul> <li>Focus on two areas (Growth in East Asia and Core Markets in Europe)</li> <li>Core Strategy: Utilise Ørsted's #1 offshore wind position to capture significant growth in established markets</li> <li>Growth Strategy: Expand to new markets with both floating and fixed bottom technologies to target deep water sea beds with high wind speeds</li> </ul>
How should Ørsted prioritise auctions over the next four years (2023-2026) to win 8 GW offshore wind capacity, considering the capital constraint of DKK 200 bn?	<ul> <li>Core Markets: Actively bid on 38.9 GW offshore wind tenders</li> <li>East Asia: Actively bid on 14.9 GW offshore wind tenders</li> <li>Additionally: Invest in sustainable initiatives to increase win rate</li> </ul>
How can Ørsted differentiate its offering from competitors?	<ul> <li>Core Strategy differentiation: Add battery system integration into the offering to improve the nation's energy systems</li> <li>Growth Strategy differentiation: Significant emphasis on procuring key components locally (e.g. foundations, wire, EPC and other contracts) and local hiring most project roles (non-director roles)</li> </ul>
As a market leader, how can Ørsted help improve the general health of the offshore wind sector to enable long-term industry sustainability, both financially and environmentally?	<ul> <li>Ørsted can utilize cross-technological capabilities to advance energy systems</li> <li>Ørsted can be a first-mover in markets to significantly advance early-stage offshore industries and increase renewable deployment worldwid</li> <li>Ørsted to apply principles for sustainability and shape industry standard</li> </ul>





