# POWER TO CHANGE THE FUTURE

REEEM Technology and Innovation Workshop Brussels, 17<sup>th</sup> of April 2018 Dr Martin Edlund, CEO



# MINESTO – A LEADING MARINE ENERGY DEVELOPER

- The Deep Green technology: a unique product with global expansion potential
- Founded in 2007 Saab Group spin-off
- Raised c. €60m in hard and soft funding
- 50+ employees in Sweden, Wales and Northern Ireland
- Listed on Nasdaq First North in Stockholm
- Main owners: BGA Invest and Midroc New Technologies



# THE NEED FOR A BALANCED FUTURE ENERGY MIX

Energy from marine currents complements the renewable energy mix:

- Predictable and reliable energy supply
- No seasonal storage need, reduces variable backup need
- Generation from ocean currents, and tidal streams combined with short-term storage = Renewable baseload power
- Minimal use of land
- Minimal environmental impact
- No visual impact

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 Utilising existing offshore sector supply chains

## **DEEP GREEN EXPANDS THE OCEAN ENERGY POTENTIAL**

- Sweeping the turbine adds a step of energy conversion.
- Enables cost-effective electricity generation from low-flow underwater streams.
- Strong IP protection with 30+ patents on 15 key geographical markets.

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## TECHNOLOGY STATUS: MORE THAN 5 YEARS IN THE OCEAN

 Combining demonstration and development

- Smaller financial commitment and shorter lead times
- Important links to local marine energy research

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## CREATING ESSENTIAL CUSTOMER VALUES

## COMPLEMENTING THE RENEWABLE ENERGY MIX

## LOW COST OF ENERGY

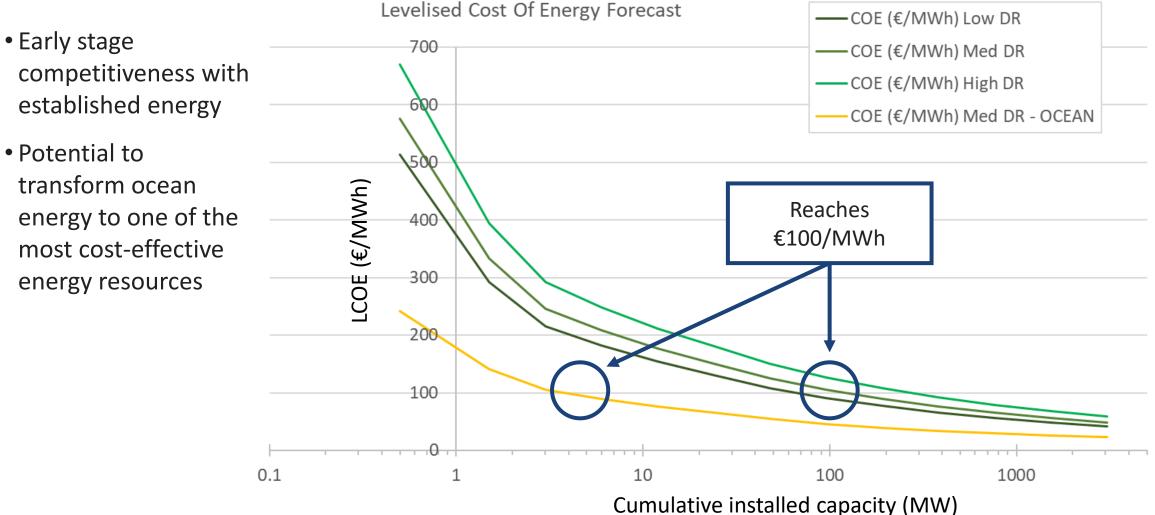
- 5–15 times lower weight per MW
  - Lower manufacturing costs
  - Smaller vessels for installation, O&M
- Unique O&M concept
  - Recoverable = minimised subsea time
  - "Exchange program"
- Slower streams means greater access to site



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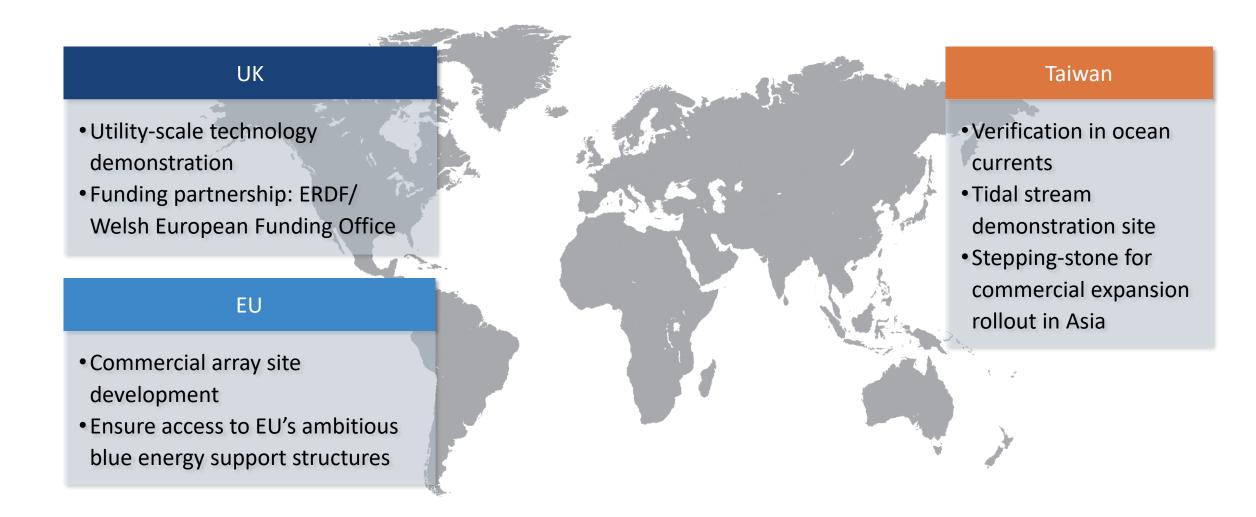
# LEVELISED COST OF ENERGY – MINESTO





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## ACTIVITIES FOR MARKET PENETRATION



## THANK YOU!



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