

***“Tidal Sails vision is to tap kinetic energy from slow moving currents to produce electricity at the lowest cost in the market”***

# Tidal Sails

***Tidal Sails’ unique low-cost solutions for slow moving tidal streams, large rivers and ocean currents combines ancient principles of ocean sailing with state-of-the-art ropeway technology.***

## **The “BeamReach” Technological Advantage**

Unrivalled exposed area in the energy stream is essential in slow currents.

Reach Rated Power as low as 3knots!!!

## **Cost Efficient & Low Weight**

Extreme low weight to power ratio, harvesting energy from a large cross section of the currents at low cost.

## **Operation & Maintenance**

Self-Cleaning Sails and Water Lubricated Sail Bearings, attached to fiber ropes assures low O&M costs.

## **Environmental Impact**

Slow moving sails profiles are assumed harmless to diving birds, fish and sea mammals.

Fully recyclable aluminum sails.

## **Site Adaptable**

Distance between stations & sails, mooring methods etc.,

2004 Tidal Sails AS estbl. in Haugesund, Norway

2006 Tank and wind tunnel testing, Univ. of Hert., U

2007 First prototypes deployed in Skjoldastraumen

2008 €3,5m Eurostars project – “Best Norwegian P

2009 €1,1m – FP7 EU project, “Tidal Sense”

2010 CNBC Green Hero + Frost & Sullivan Tech. Av

2011 CNBC and Euronews feature broadcast

2011 Demonstrator “Balder” 25 kW “EU - Success S

2012 Winner of European Venture Contest – Energ

2013 €1,6m – FP7 EU project “Magnetide”

2014 IAIR Awards - Sustainability.

2017 Norwegian Coastal Adm. - Exclusive Sponsors

2018 H2020 SME Instrument Seal of Excellence

2018 Innovation Norway pre-project €1m

2019 EU Seal of Excellence

2021 BeamReach patent

2021NVE 6MW Tidal Permit

2022 TidalSails US incorporated.

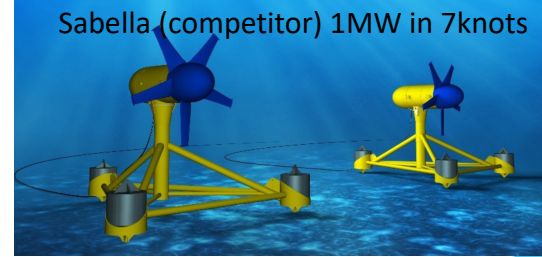
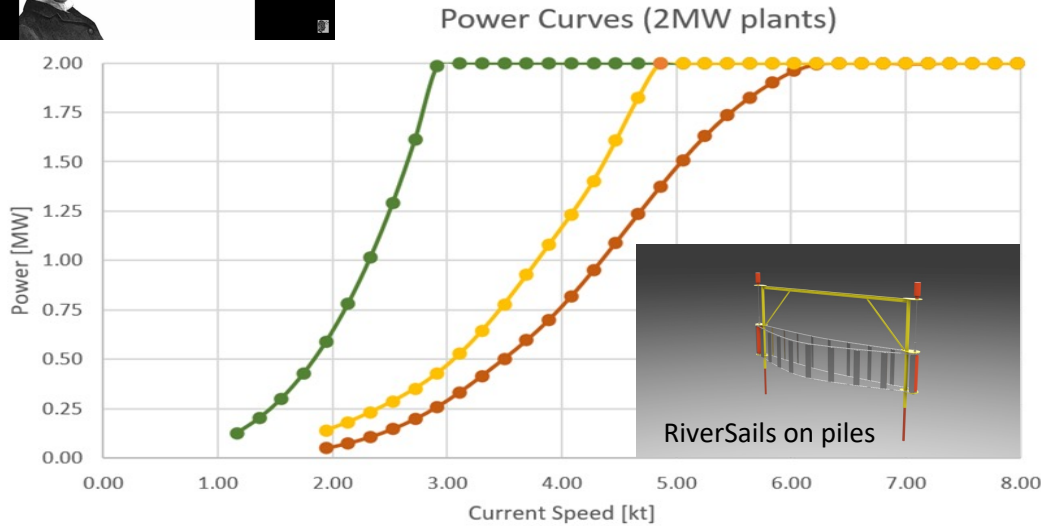


Let the future tell the truth, and evaluate each one according to his work and accomplishments. The present is theirs; the future, for which I have really worked, is mine.



Nikola Tesla

## Power Curves Comparison:



- Tidal Sails 2MW
- Atlantis 2MW
- SeaGen 2MW
- Orbital 2MW

*Rated Power in 3knots while competitors barely generates 10-15%*

- *Lowest LCOE*
- *Adaptable*
- *Resilient*
- *Powerful*
- *Light*
- *Inexpensive*
- *Silent*
- *Invisible*
- *Recyclable*
- *Gentle*



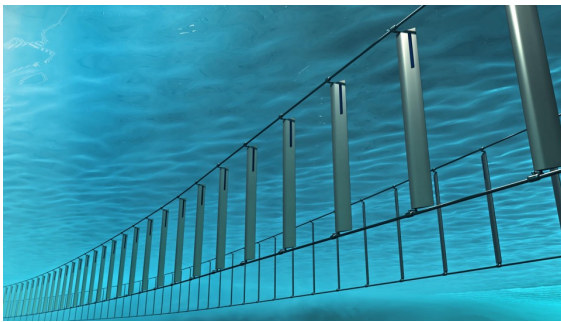
Installation & Moorings Engineering Certification



Drive system, monitoring and fully integrated control system, engineering



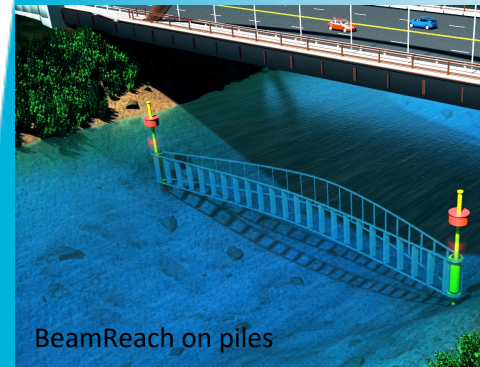
Fiber rope engineering, Splicing



Aluminum Sails Extrusion & Sail Control System Engineering



Environmental



BeamReach on piles