

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

# Tidal Sails AS

***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 output ratio with ability to harvest energy from a large cross section of the currents.

## **Operation & Maintenance**

Fully submerged Self-Cleaning Sails and Water Lubricated Sail Bearings assures low O&M costs.

## **Environmental Impact**

Slow moving sails 15meter beneath shipping lanes are assumed harmless to diving birds, fish and mammals.

Fully recyclable aluminum sails

## **Site Adaptable**

By adapting distance between stations, height and spacing between sails, mooring method etc., Tidal Sails provides predictable, clean and lower cost electricity than wind and sun.

2004 Tidal Sails AS established in Haugesund, Norway

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

2007 First prototypes deployed in Skjoldastraumen

2008 €3.5m Eurostars project – “Best Norwegian Prop

2009 €1.1m – FP7 EU project, “Tidal Sense”

2010 CNBC Green Hero + Frost & Sullivan Tech. Award

2011 CNBC and Euro news feature broadcast

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

2012 Winner of European Venture Contest – Energy

2013 €1.6m – FP7 EU project “Magnetide”

2014 IAIR Awards - Sustainability.

2017 Norwegian Coastal Adm. - Exclusive Sponsorship

2018 H2020 SME Instrument Seal of Excellence

2018 Innovation Norway pre-project €1m

2019 EU Seal of Excellence

2021 BeamReach patent

2021 NVE 6MW Tidal Permit

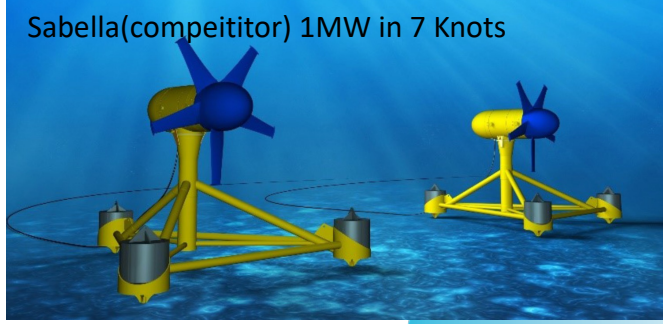
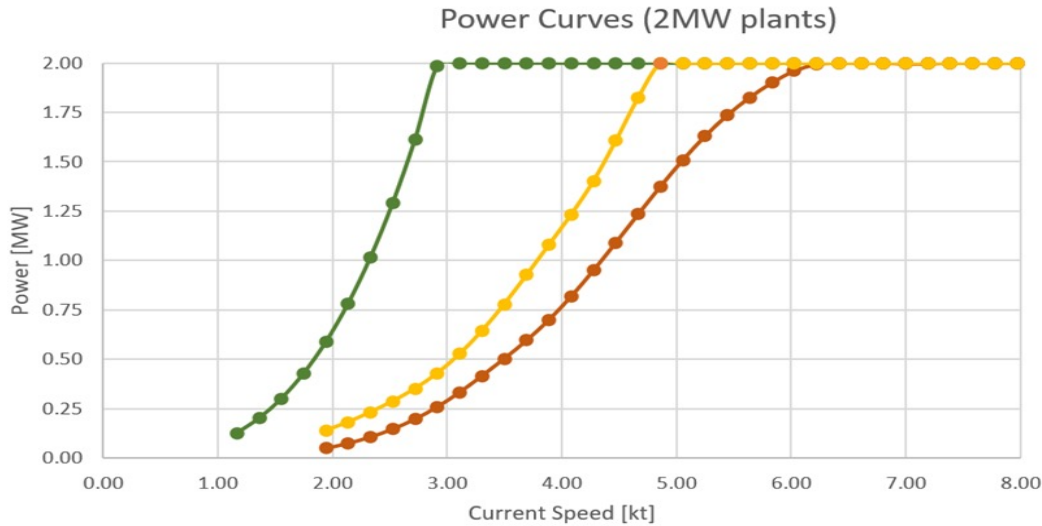
2021 Finalists, Ocean Exchange, USA

2022 Tidal Sails UK established

2022 Tidal Sails US established



# Power Curves Comparison:



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

As currents exceeds 1.5m/s the number of active sail profiles decrease accordingly to flatten the Power Curve (Peak Shaving), while competitors only generate 10-15% of their rated power!

- *LCOE*
- *Adaptable*
- *Resilient*
- *Powerful*
- *Light*
- *Inexpensive*
- *Silent*
- *Invisible*
- *Environmental friendly*

