The Underwater Aircraft that Generates Electricity









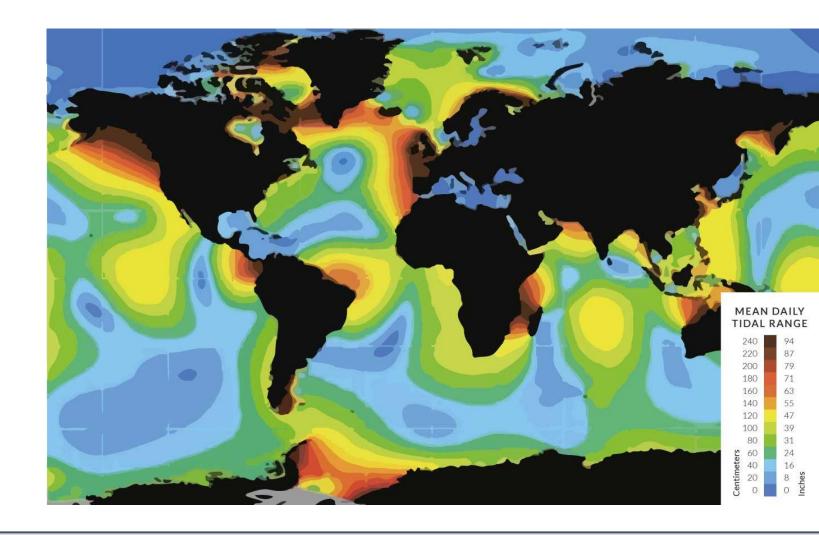






THE CHALLENGE: EXPLOIT SLOWER STREAMS

- Conventional technologies can only be cost-effective in highvelocity water streams
- The vast part of the tidal and ocean current resource in the world consists of slow streams

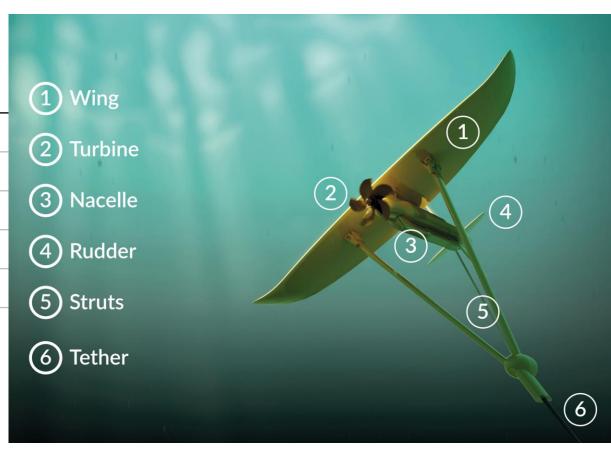






DEEP GREEN SPECIFICATIONS

	Conventional tidal technologies	Deep Green
Rated power	1–2.2MW	0.5MW
Current velocities	2.5–3.5m/s	1.2-2.4m/s
Weight	140-500t	10t
Depth of installation	30–80m	60–120m
O&M	Subsea	Surface/on shore





CREATING ESSENTIAL CUSTOMER VALUES

COMPLEMENTING THE RENEWABLE ENERGY MIX

- Renewable base load predictable and reliable power production
- Global resource
- Energy-rich
- Limited use of land
- No visual impact
- Generating electricity in unison with the marine environment

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



EARLY STAGE COST COMPETITIVENESS





- Tidal streams:
 Potential to reach
 €100/MWh at
 100MW cumulative
 installed capacity
- Ocean currents:

 Potential to reach
 €50/MWh at 100MW
 cumulative installed
 capacity

Cost drivers

- Low-weight design
- Low-cost offshore operations

