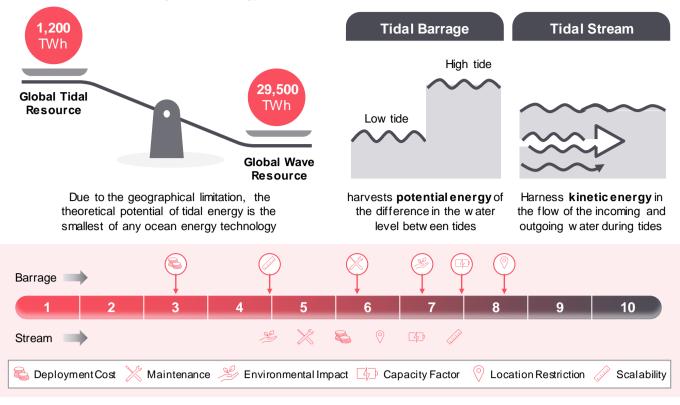
# **FutureBridge**

# TIDAL ENERGY

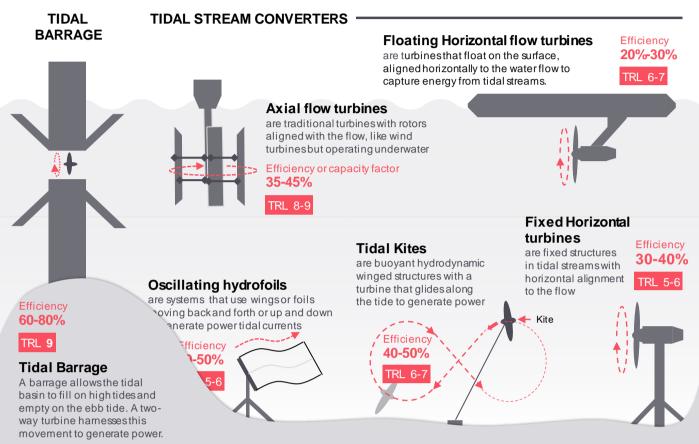
## **Decentralized Energy** for Islands

### **Tidal Energy and Tidal Resource**

Tidal Energy harnesses tides, a natural rise and fall in seawater level influenced by the gravitational forces of the moon and the Sun, to generate energy.



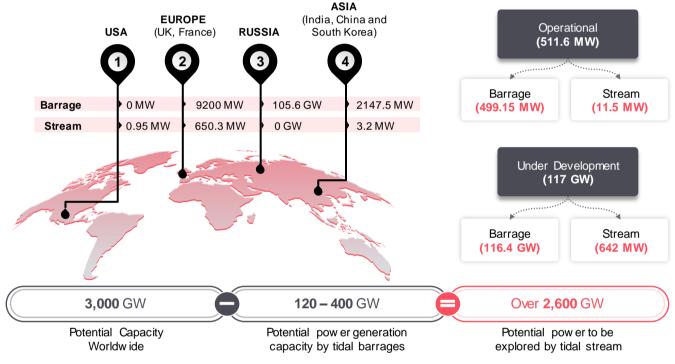
#### Types of Tidal Energy Converters





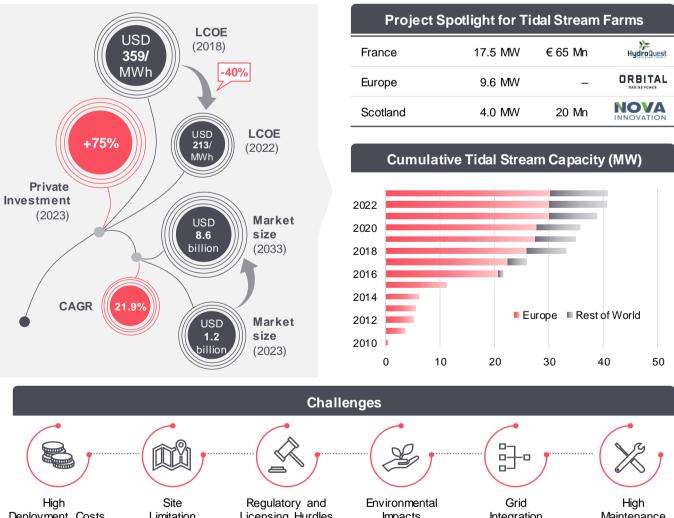
# **Tidal Energy Projects Worldwide**

Most project today adopt tidal barrages. However, its potential is limited leaving a huge gap to be explored by tidal stream.



## **Market Development and Challenges**

As more investments come from public and private sector, tidal technology has faced significant price reductions, leading to market growth expectation. On the front of investments, European countries are slowly switching to tidal stream.



Impacts

#### Major Technology Provider-Tidal Energy

	Founded in 2010, is a leading tidal energy company headquartered in Edinburgh, Scotland. It specializes in the development of tidal turbines and tidal energy projects, aiming to harness the power of the ocean to generate renew able electricity.
€Minesto	Founded in 2007, Minesto is a pioneering Sw edish company specializing in marine energy, utilizing its innovative Deep Green technology to convert low -velocity tidal and ocean currents into reliable, clean electricity.
	Founded in 2002 in Orkney, Scotland, United Kingdom, is known for its innovative floating tidal turbine technology. Orbital O2, Its flagship turbine is considered the most pow erful tidal turbine in the world.
SAE	SAE Renew ables, formerly know n as Simec Atlantis Energy operates one of the world's largest tidal pow er projects, the MeyGen project in Scotland. They are at the forefront of developing and deploying advanced tidal turbines like AR1500 and AR2000 turbines.

### **Future Perspectives**

- Untapped Potential: Tidal energy, still in its early stages, offers significant opportunities. While tidal barrages dominate, tidal streams remain largely untapped, presenting vast potential for growth.
- Rising Investment: Strong commitment from Europe and the USA, with substantial financial support and increased private sector investment, foreshadows rapid growth. Projections indicate a robust annual growth rate of 22% by 2033.
- Environmental Advantage: Tidal energy addresses land use challenges, particularly vital for islands. Tidal stream energy, adaptable and eco-friendly, contrasts with the complex and impactful nature of tidal barrages. Maximizing tidal energy's benefits requires advancements in technology and supportive policies.

#### About FutureBridge

FutureBridge is a techno-commercial consulting and advisory company. We track and advise on the future of industries from a 1-to-25-year perspective to keep you ahead of the technology curve, propel your growth, Identify new opportunities, markets and business models, answer your unknowns, and facilitate best-fit solutions and partnerships using our platforms, programs, and access to global ecosystems and players.

