



Length: 41 ft (12.5m); Height: 52 ft (16m); Mass: 175 tonnes

AR SERIES TIDAL GENERATION SYSTEM

THE SYSTEM

The AR-series Tidal Turbine Generation System is a 1-3MW customizable horizontal-axis turbine with up to 30m rotor diameters. Designed for medium to high-flow sites (0.7-5 m/s), it features advanced composite blades and intelligent pitch control for optimized performance, smooth power output, and durability in extreme conditions.

ENVIRONMENTAL MONITORING

Proteus is committed to advancing tidal energy with minimal environmental interaction, prioritizing marine ecosystem protection. Studies at MeyGen (Scotland) and SeaGen (Northern Ireland) showed no significant marine mammal impacts, while our projects in France underwent rigorous assessments on acoustics, collision risks, and seabed impact, ensuring compliance and reinforcing our commitment to sustainable and responsible tidal energy development.

FEATURES



Optimized turbine design for high performance and maximized energy generation



Seabed mounted using space efficient foundations with minimal footprint

PROVEN TECHNOLOGY

Proteus has over two decades of tidal turbine expertise, generating well over 20GWh globally. With extensive operational hours from 25+ deployments across six countries and in-house design, construction, and O&M capabilities, we drive innovation and cost reductions in tidal energy technology.