Gearboxes for Tidal Power

A SOLUTION WHICH FULLY RESPECTS EXTREME CONDITIONS WIKOV.COM



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SEAGEN PROJECT (MCT)

- Twin 650kW main drives (gearboxes + generators) for pile-mounted tidal current turbines
- Gearboxes more than 7 years in trouble-free operation
- Finalist of Tidal Energy Award 2010

02

EMEC 500KW PROJECT (TGL)

- 500kW tidal turbine gearbox for gravity based installation, in operation since 2010
- Tidal stream turbine test programme successful completed in 2012 exported 250 MWh of power to the Scottish grid

04

MEYGEN PROJECT (ANDRITZ HYDRO -HAMMERFEST)

03

- 1,500kW tidal turbine gearboxes for gravity based installation
- 3 prototypes delivered in 2015
- **Tidal Energy Award** 2015 nomination

AQUANTIS PROJECT

FLOTEC SR2-2000

PROJECT (ORBITAL

• Two 1,130kW

05

MARINE POWER - SKF)

planetary gearboxes

for floating tidal

power platform

Deployment in 2021

 185kW tidal turbine gearbox prototype (WinGear helical)







650kW gearbox with generator for MCT SeaGen project







Gearboxes designed for tidal turbines from the very beginning

WIKOV - THE ESSENCE OF ENGINEERING

- very beginning
- Deep knowledge and field-proven
- Reliable and compact flexible pin - Flexible pin and differential split torque capacity while reducing size and weight - Flexible pin arrangement ensures equal load distribution and compesantes
- In-house manufacturing and full load test
- Dewi OCC, and others



500kW for TGL EMEC demonstrator unit





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Wikov Manufacturing Facility

Wikov is a respected manufacturer of innovative planetary gearboxes for tidal stream power plants. From the very beginning our solution is designed especially for tidal stream power plants and it fully respects the extreme conditions of this harsh environment. We have successfully designed, produced, tested, installed and monitored gear units for key projects such as MCT SeaGen, TGL EMEC demonstrator unit, Andritz Hydro Hammerfest MeyGen project or FloTEC SR2-2000 project.



The Essence of Engineering

