

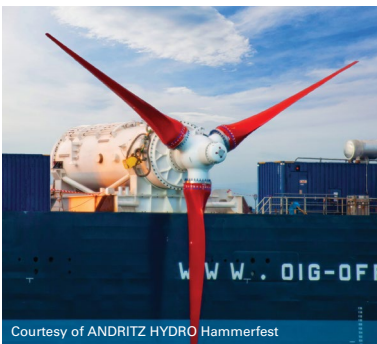
RENEWABLES



Gurit offers structural engineering for renewable energy projects in Tidal, Wave Wind power, from domestic up to multi-megawatt scale.

Gurit designed and built the blades for the first successful and DNV-certified 1MW tidal stream turbine, the ANDRITZ HYDRO Hammerfest HS1000, along with many other blades for leading turbine developers. In the marine environment, the main drivers are light weight, fatigue resistance, corrosion resistance buoyancy. These drivers can be met with composite materials but require conscientious engineering and a detailed understanding of the behaviour of materials underwater. Gurit has conducted over 1000 tests on epoxy laminates, adhesives and foam cores under pressure and saturated with seawater to gain this understanding.

SAMPLE OF RENEWABLES PROJECTS UNDERTAKEN BY GURIT



2011

ANDRITZ HYDRO Hammerfest HS1000

With a rated capacity of 1MW and a diameter of over 20m the ANDRITZ HYDRO Hammerfest HS1000 is the largest single tidal turbine rotor to be installed to date. The 9m tidal blades were engineered and manufactured using Gurit materials by a team at Gurit UK.

SSP Technologies A/S

Danish company SSP Technology A/S set itself the challenge of creating a cost effective 34-metre blade with high yield, superior quality, low weight, and a long life span and chose to partner Gurit in the areas of structural design and materials specification.

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