Type of Entry: Innovation Area

Turbines > Powertrain > Powertrain design

Description

The powertrain is the critical component in wind turbines that convert the aerodynamic loads on the rotor to useful energy in the form of electricity. Over the years, the design of commercial offshore wind turbines has converted to a few popular configurations. Several non-conventional powertrain designs are being researched to address specific shortcomings of the conventional design. Issues such as reliability can be addressed by modularisation and innovative designs for components such as bearings. It will need coordination between RTOs, Academia and Industry



