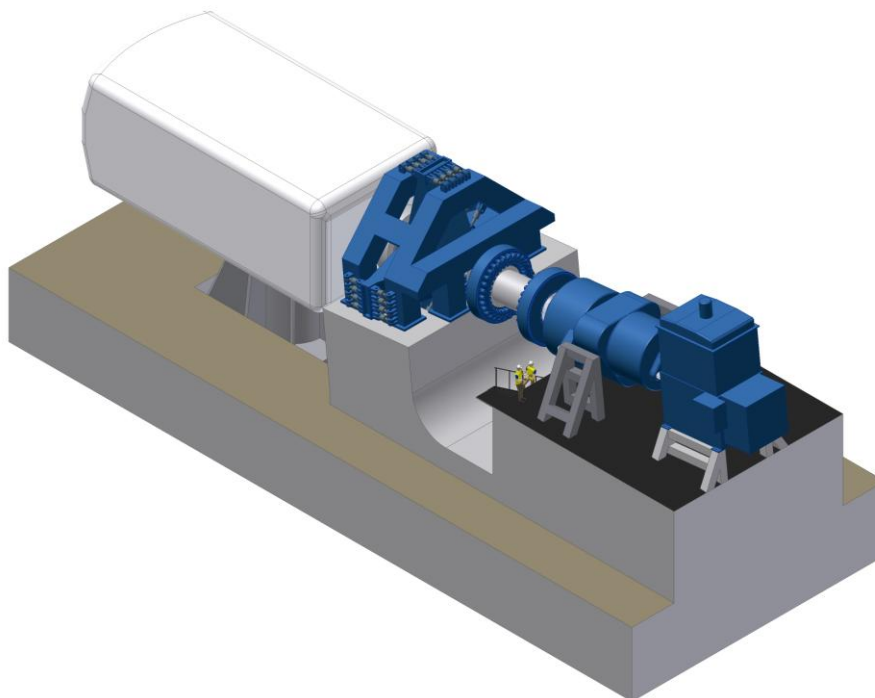


15 MW drive train test stand



Codename 'Fujin'

Estimated cost £30M

Status Scheduled for commissioning July 2011

Facility capability

Continuous shaft input power	15MW
Max torque	15000kNm
Shaft Speed at max power	10 rpm
Speed range	0 – 30 rpm
Max side loading	70 000 kNm
Axial load continuous	4 000 kN
Heaviest lift (x2 cranes)	450T
Grid supply (loss make up)	3 MW
Grid voltage	3.3kV
Supply	50Hz
Test bed	30m x 10m

Testing capability (Phase 1)

Overload torque
Side loading
Dynamic fatigue
Extreme static
Brake emulation
Unbalanced rotor
Ice build up
Pitch error
Complete nacelle testing and proving
Condition monitoring evaluation
Control system validation