

Wind Power & Energy Sealing Solutions

for reduced maintenance and extended service life of critical components



O-Rings



Rotary / Lip Seals



Hydraulic Seals



Rod Seals



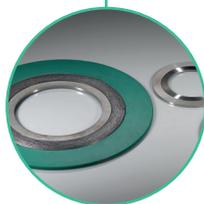
Wiper Seals



PTFE Seals



Piston Seals



Gaskets



Shaft Seals /
Oil Seals



V-Rings

Optimising reliability, reducing maintenance and extending the service life of critical components in wind power generation.

As the global demand for clean, sustainable energy grows, wind power has emerged as a critical force in the renewable energy sector. We provide high-performance sealing solutions that meet the rigorous demands of wind turbines and associated energy systems.

Renewable energy systems, whether it be wind power or hydropower, need low friction sealing solutions that are reliable and efficient, providing longevity between set maintenance periods as accessibility is usually limited due to their locations.

We provide a range of low friction sealing solutions, utilising our vast array of HNBR, NBR, FPM, PTFE and internally lubricated polyurethane materials.

Where a standard sealing product would not be suitable, we can design and manufacture bespoke seals to meet specific application requirements.



MATERIALS FOR DEMANDING CONDITIONS

- FKM (Viton®)
- HNBR
- PTFE (Teflon®)
- Nitrile Rubber (NBR)
- Silicone (VMQ)
- Polyurethane (PU)

WIND ENERGY CHALLENGES

Wind turbines operate in some of the harshest environments – from offshore platforms battered by saltwater, to remote onshore sites exposed to temperature extremes and high mechanical loads. These conditions place immense stress on turbine components, making effective sealing essential to:

- Prevent lubricant leakage
- Protect against dust, dirt, and moisture ingress
- Withstand wide temperature and pressure variations
- Resist degradation from UV, ozone, and chemicals

SEAL TYPE	SYSTEM/APPLICATION AREA	PURPOSE
Piston Seal	Hydraulic pitch/yaw systems	Maintain pressure in cylinders
Rod Seal	Hydraulic actuators	Prevent external leakage
Wiper Seal	Hydraulic systems (external)	Exclude contaminants
Rotary Seal	Main shaft, yaw/pitch drives	Seal rotating parts
Static Seal	Gearbox, housing flanges	Prevent fluid/gas leakage
PTFE Seal	Gearbox, hydraulics	High durability, low friction
V-Ring	Main shaft, motors, gearboxes	Secondary contamination barrier
Shaft Seal	Main shaft, yaw/pitch drives, generator shafts	Seals rotating shafts, excludes contaminants
Hydraulic Seal	Pitch/yaw systems, braking systems	Retains pressure in hydraulic actuators
O-Ring	Gearbox, hydraulics, electronics enclosures	General-purpose pressure/fluid sealing
Gasket	Gearbox covers, nacelle flanges, control panels	Static sealing between non-moving parts