



WIND ENERGY ADVANCED SOLUTIONS

**SEALING, VIBRATION & MOTION CONTROL,
MONITORING & SENSING,
DATA SERVICES**



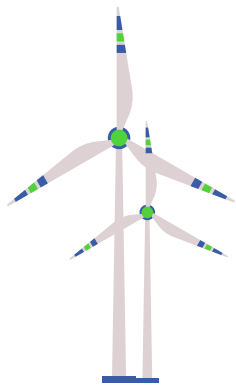
HUTCHINSON, YOUR TRUSTED PARTNER FOR THE CRITICAL FUNCTIONS OF ENERGY MARKETS

As renewable energy continues to expand worldwide, operators, developers and OEMs face increasing challenges in maximizing energy production, improving asset reliability and extending infrastructure lifetime while reducing costs. Whether onshore, offshore or floating, energy assets must operate safely and efficiently in some of the world's most demanding environments.

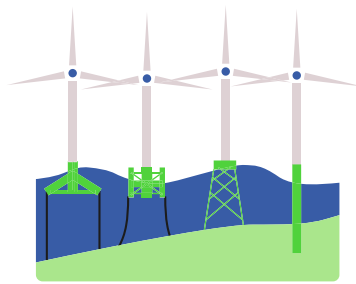
Hutchinson brings decades of experience in offshore energy and harsh marine environments, and leverages expertise in materials, structural loads long term resistance, sealing, antivibration, sensing and smart monitoring systems to help customers meet these challenges. Working closely with its clients, Hutchinson designs innovative solutions that enhance asset integrity, improve operational efficiency and support long-term performance throughout the lifecycle of critical energy infrastructures.

A COMPREHENSIVE APPROACH TO RENEWABLE ENERGY CHALLENGES

Wind Turbines • Offshore Foundations • Data Services



Wind Turbines



Offshore Foundations



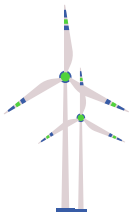
Data Services

Renewable energy infrastructures are expected to deliver higher performance, longer service life and greater reliability while operating in increasingly demanding environments. To address these challenges, Hutchinson combines complementary expertise across five key domains:

- **Sealing & Protection:** Protecting turbines, nacelles, bearings and offshore foundation systems against water ingress, corrosion, contamination and harsh environmental conditions.
- **Vibration & Motion Control:** Drawing on decades of expertise in NVH, vibration isolation and motion control, Hutchinson helps reduce structural loads, mitigate fatigue and improve the durability of wind turbines and offshore structures.
- **Engineering & Advanced Materials:** Combining composite technologies, elastomers, metals and advanced materials with numerical simulation expertise to develop lighter, more durable and high-performance energy infrastructures.
- **Structural Monitoring & Sensing:** Monitoring towers, cranes, transport, blades and critical structures through advanced sensing technologies, enabling real-time condition assessment and improving asset reliability.
- **Data Services & Predictive Maintenance:** Transforming operational data into actionable insights to optimize maintenance strategies, improve availability and support long-term asset performance.

Together, these capabilities help customers maximize energy production, improve reliability and reduce the Levelized Cost of Energy (LCOE).

By combining engineering excellence, innovation and a customer-focused approach, Hutchinson helps operators, developers and OEMs maximize asset performance, extend infrastructure lifetime and optimize operational efficiency.



Wind Turbines

Designed for harsh offshore conditions, Hutchinson solutions resist corrosion, moisture, salt spray, and vibration to ensure long-term wind turbine reliability.



BEARING & ROTARY SHAFT SEALS

- Engineered for extreme conditions
- Energy efficiency: Low friction to reduce energy consumption
- Designs options: with or without spring, cassettes, multi-lip, dust lip...



MAGNETIC & INDUCTIVE SENSING SOLUTIONS

- Measurement accuracy
- Resistance to harsh environments
- Adaptability

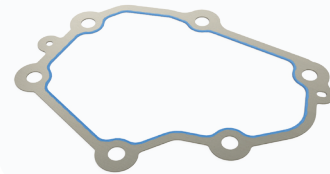


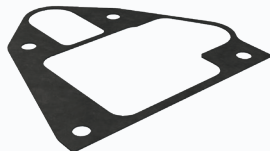
PLATE SEALS

- Reliable performance in extreme conditions
- Adaptability to large tolerances
- Secure positioning during assembly and transport



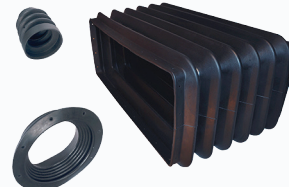
OMNI SHAFT SEALS

- Lightweight materials
- Corrosion resistant
- Cost optimization



FLANGE SEALS

- Easy assembly
- Durability
- Shock and vibration resistance



BELLOWS

- High resilience
- Long service life
- Pressure / vacuum resistance



STATIC SEALS

- Broad expertise in O-Rings, X Rings JF4 Sealing Rings
- Wide range of dimensions
- Continuous molding process for large dimensions



ELASTOMERIC MOUNTS

- Constant height over wide load range
- Stabilised characteristics during Service Life
- Simple to fit



COUPLINGS

- Good axial flexibility which allows great axial displacement



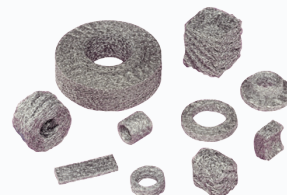
ACTIVE DAMPER

- Real time NVH improvement



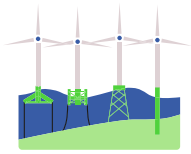
EXTRUDED PROFILE SEALS

- Resistant to high pressure
- Extended lifetime
- Highly adaptable



METALLIC CUSHIONS

- 100% stainless steel metal
- Extended lifetime and high durability
- Designed for harsh environments



Foundations

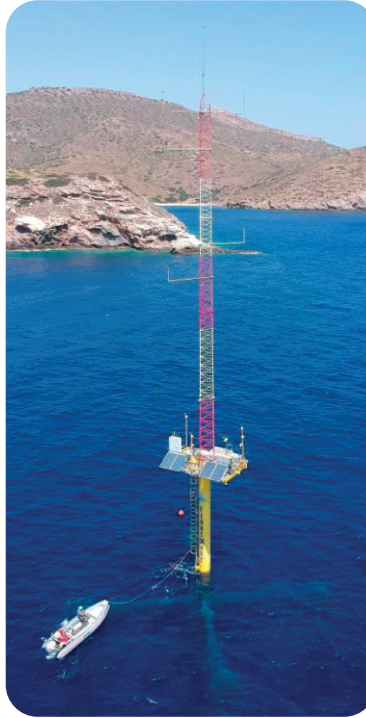
Reliable solutions for bottom-fixed and floating foundation systems, enhancing structural integrity and long-term performance.



SEMI-SUBMERSIBLE MOORING CONNECTORS

- No chain jacks or fairleads required
- Reduce offshore installation time
- Proven installation and reconnection solution

© Photo PPI, Eiffage for the Project LEFGL (Les Eoliennes Française du Golf du Lion)



TLP TENDONS TOP CONNECTORS

- Improved NVH performance
- Durable
- Tunable

© Photo TLP platform for wind field mast measurement (FLOATMAST project - Greece)



INFLATABLE / LEAP SEALS

- High geometrical tolerances
- High reliability
- Long life time - Gas tightn



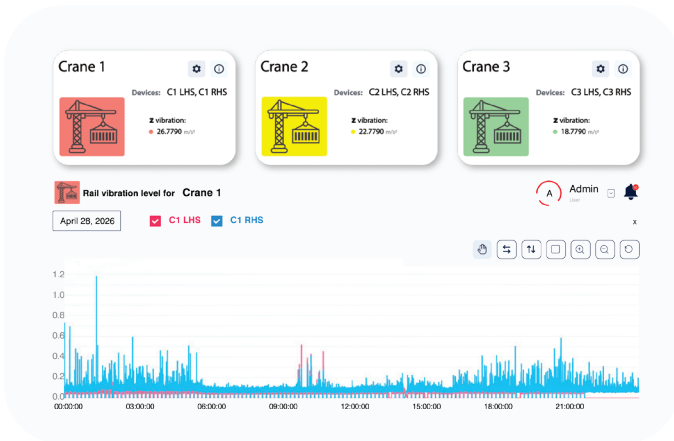
Dataservices

Hutchinson supports electronic systems throughout their lifecycle, from design and development to maintenance, monitoring, and operational performance.



ENDAQ - MULTI-SENSOR DATA LOGGERS

- 11 Embedded Sensors
- Easy setup
- Lab quality data
- Wi-fi enabled



SERVICES

- OPEX optimization
- Lifetime extension
- Preventive and predictive maintenance
- Provide recommended settings



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Our clients operate in some of the world's most demanding environments, where performance, reliability, and innovation are non-negotiable. Whether in automotive, aerospace & defense, new energies, or other advanced industries, they face complex technical challenges: from managing fluids and thermal, to ensuring acoustic insulation, smart monitoring and sealing under extreme conditions.

At Hutchinson, we are a global technology partner, committed to enhancing product performance and extend lifecycle durability. Together, let's contribute to create safer, more comfortable, and more sustainable solutions.



40,000
employees



26
countries



5%
spent each year
in Research
& Innovation



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