

# Offshore Renewable Energy

Understand your complete environment





**TRIAXYS™**  
Wave & Current Buoy



**WINDSENTINEL™**  
Floating Lidar



**WATCHKEEPER™**  
Metocean Buoy

## OFFSHORE RENEWABLE ENERGY ASSESSMENT & MONITORING SYSTEMS

AXYS Technologies has 40 years of experience in the development, deployment and maintenance of offshore systems that accurately record and transmit ocean data in near real time, equipping offshore energy developers with the information that they need in order to make sound financial decisions.

### COMPLETE DATA SETS

AXYS can integrate a wide range of sensors onto a buoy system in order to meet the data needs of the offshore renewable energy sector. Sensor suites can be customized to supply data sets commonly used in this industry including:

- wind speed, direction & gust
- atmospheric pressure
- air temperature
- water temperature
- dissolved oxygen
- conductivity
- wave period and direction
- significant and maximum wave height
- current speed and direction
- relative humidity
- pH
- position (GPS)

AXYS also offers full data hosting and a suite of software data display and management tools.

### CAPABILITIES CHART

	Wave	Current	Water Quality	Water Temperature	Salinity	Turbidity	Basic Wind	Air Temperature	Atmospheric Pressure	LiDAR
TRIAXYS™	×	×	×	×	×	×				
3 Metre WatchKeeper™	×	×	×	×	×	×	×	×	×	
WindSentinel™	×	×	×	×	×	×	×	×	×	×

### PROVEN TECHNOLOGY

**Met Ocean, Waves & Current Measurement:** AXYS has designed, deployed and serviced a wide variety of these reliable data buoys for over 35 years.

**Floating LiDAR:** The AXYS WindSentinel™ is a wind resource assessment buoy that uses LiDAR to accurately measure wind speed and wind direction at turbine hub-height and across the blade span.

### FULL SERVICE

The AXYS Service Team employs senior Field Specialists who know the systems intimately and have over 60 years of combined oceanographic and operational buoy experience. These specialists are capable of board level diagnostics/repair in the field, and individual electronic component level diagnostics/repair in the lab.

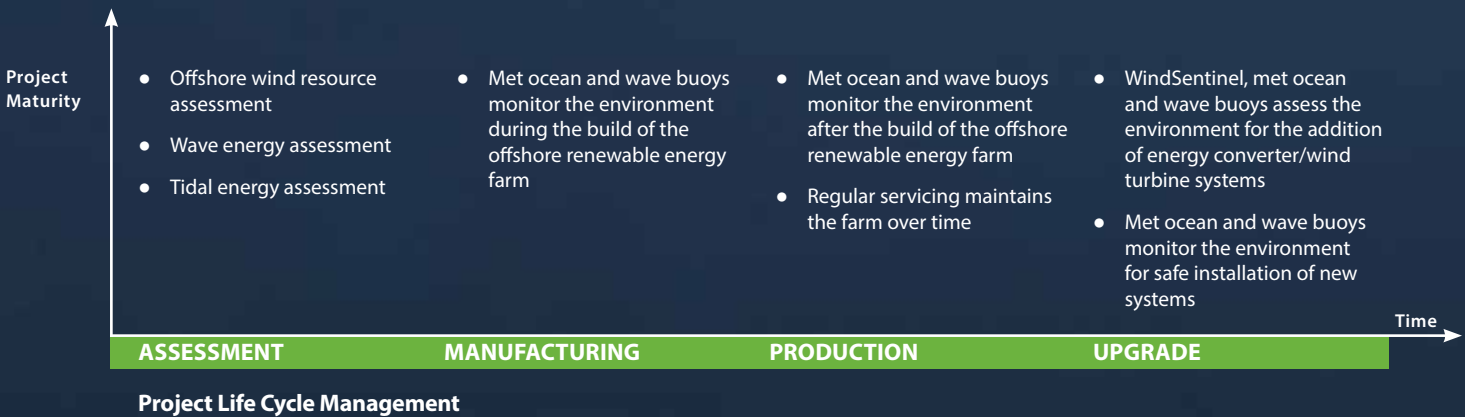
AXYS can provide full turnkey installation programs for any of our products, anywhere in the world. Our staff is experienced in working in all climates and ocean conditions.



# UNDERSTAND YOUR WHOLE ENVIRONMENT

COMPLETE DATA SETS  
PROVEN TECHNOLOGY  
FULL SERVICE  
PROJECT LIFE CYCLE MANAGEMENT

## AXYS can assist in every part of the offshore renewable energy production life cycle



## Applications

- Offshore wind assessment
- Weather forecasting
- Safe operations management
- Oceanographic research
- Marine and coastal engineering
- Climate studies

