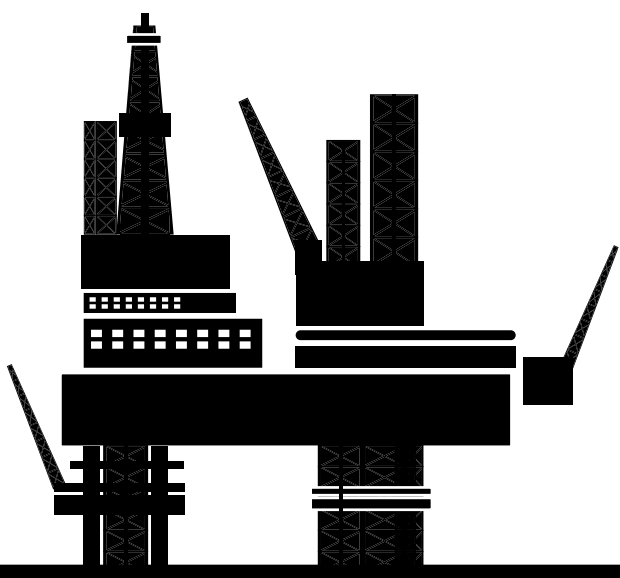


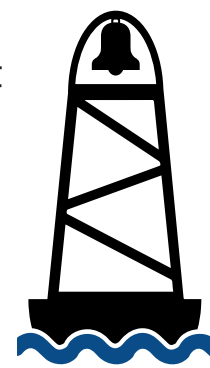
Offshore Oil & Gas:

Benefits of Metocean Data

Environmental data is critical to oil and gas companies operating offshore. The data is necessary to provide to environmental regulators, plays an important role in drill rig and production platform selection and is relied upon for safe and efficient operations during the production life of a well. The ability to monitor real time met-ocean parameters such as directional waves, current profiles, wind and salinity with a reliable system adds value to the oil and gas company throughout the entire life cycle of an offshore well.



AXYS metocean buoys provide oil and gas companies with vital environmental data, which allows them to make more accurate and timely decisions throughout the life of an offshore well. With 40 years of experience, AXYS Technologies is a world leader in marine sensor system integration and has interfaced a range of world-leading metocean sensors to create a robust and reliable solution that meet the challenges of offshore data acquisition requirements.



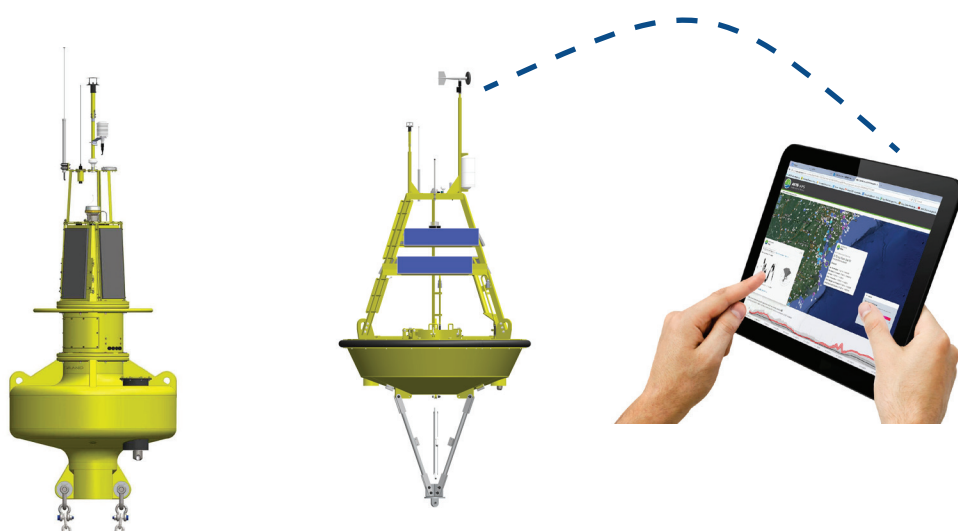
AXYS Buoys monitor real time meteorological & oceanographic conditions:

- Wind speed & direction
- Air temperature
- Atmospheric pressure
- Humidity
- Directional waves
- Current profiles
- Sea surface temperature

Improved power availability supports more frequent sensor sampling with solar panels & rechargeable batteries to ensure buoys operate autonomously for extended periods of time. Equipped with security cameras as well as Type 1 & 3 AIS for collision avoidance and acquisition of vessel data. Data is transmitted via satellite telemetry with compressed message formats to reduce data costs. AXYS-APS data display provides access to real-time data from multiple sensors and sources presented in one portal for improved planning, research studies, and decision-making.

Timely & accurate decisions affecting platform operations, staff safety, and the local environment.

- Improves safety
- Improves operational efficiency
- Anticipate and mitigate problems



Data applications throughout the project lifecycle:

Environmental Impact Assessment and Site Selection

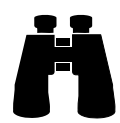
- Baseline time series data
- Historic data validation
- Engineering design



1

Exploration

- Nowcasting
- Model validation
- Forecasting/hindcasting



2

Production

- Nowcasting
- Monitoring and improving operational performance
- Stress/fatigue analysis



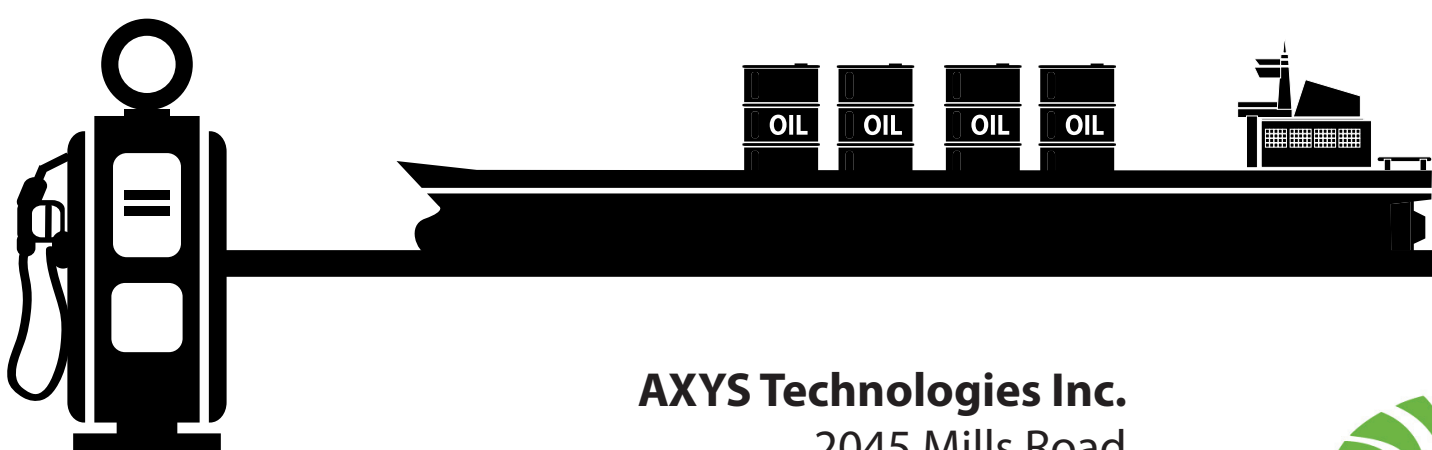
3

Retirement & Decommissioning

- Nowcasting



4



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