

HOW THE RPS BUOY IS DESIGNED TO MEET PROJECT DEVELOPMENT RISKS

Risks to development - Any one of these could cause project delays and cost you **time** and **money**



Risk of losing data



Delaying bankable assets/approvals



Unexpected service requirements



Personnel injury



Contract regret

How advanced design can be used to manage risks

Examples from the RPS Floating LiDAR buoy

Reliability ● ● ●

The RPS buoy has redundancy features in power, data logging and transmission, ensuring reliability. Two independent, emission-free power systems can run without charging for 12 days. Redundant communication devices include satellite, WiFi and 4G. The buoy is designed to withstand severe weather events, as is a customised mooring solution for each location.

Manages risk of: Risk of losing data Delaying assets/approvals Contract regret

Safety ● ●

Deployment methods, servicing methods, detailed procedures and safety management are all designed with personnel safety in mind. RPS has won many safety awards and maintained a strong safety record by taking this approach.

Manages risk of: Personnel injury Contract regret

Rapid response ● ● ● ● ●

Remotely acquiring data offshore presents many challenges, including the potential for interference or damage by other parties. Our buoys have remote monitoring systems, including cameras, that alert our teams to unexpected damage immediately, allowing rapid assessment of the necessary response. In some cases, our redundant systems and ability to remotely access and reconfigure the buoy systems make expensive and time-consuming site visits for repair work unnecessary.

Manages risk of: Risk of losing data Delaying assets/approvals Unexpected service requirements Personnel injury Contract regret

Continuous improvement, pursuit of leading reliability ● ● ● ● ●

RPS has long held a philosophy of continuous improvement. We learn something from every field deployment and project, ensuring that this is carried into the next one. This improves safety, efficiency or durability and we continue to strive for industry-leading standards in all areas. This means that the risk to our clients of data loss, unexpected service visits or schedule impact is minimised.

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Steps forward in contracting, permitting and management

Ways to increase efficiency and protect investment

End-to-end management by a single company ● ● ● ● ●

Working with a single provider means continuity of service, cost-effectiveness, and time saved.

RPS is an example of working across the project lifecycle, from designing and building the buoys, designing the moorings, deployment planning, and managing the communications and resultant data. We can even take the data and use this to develop design parameters or estimate power performance. Our expertise in data quality and quality control, as well as the buoy's maintenance, means developers are supported by one trusted source.

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Contracting strategies ● ●

Contracts that require an imbalance of risk for either party can cost money and lead to contract regret, disputes and incomplete projects. Taking a proactive approach to contract risk can ensure a smoothly run, cost-effective project, despite the potential challenges of remotely acquiring data offshore. We do this by drawing on deep expertise and a long history of offshore data acquisition when assessing project risk and providing solutions for clients.

Manages risk of: Delaying assets/approvals Contract regret

Permitting management ● ●

Permitting can be a complex process and one that can lead to significant project delays. We can take this headache from most of our clients by offering significant experience in the permitting/licensing processes related to buoy deployment in many jurisdictions. (Our experience also extends to the whole of wind farm permitting).

Manages risk of: Delaying assets/approvals Contract regret

