

Japan leverages Seaeye Falcon for offshore wind industry



Japan's expanding offshore wind industry has added a further Seaeye Falcon underwater robot as a key operational resource for working in complex environments. Tokyo-based systems provider Marimex says Japan's wind power construction operators value the Falcon for being a compact and powerful robot that is ideally suited for shallow waters and strong currents.

The small footprint of the metre-sized Falcon is also important for offshore energy operators, as construction is carried out using fleets of small service vessels, as required in shallow waters.

Growth in Japan's offshore wind power construction comes as the Japanese government seeks to achieve carbon neutrality by 2050.

According to Marimex, the Falcon's broad operational capability means that not only can it be used for preliminary surveys, but also for post-construction maintenance monitoring and many other applications. As the world's top-selling robotic vehicle in its class, the Falcon has a reliability record covering over a million hours underwater.

The success of [Saab Seaeye](#)'s Falcon comes from combining intelligent control architecture with five powerful thrusters to enable precise manoeuvrability in turbulent waters among complex structures, while loaded with a wide range of cameras, sensors and tooling typically found on much larger robotic vehicles.



Seaeye Falcon underwater robot. (Image courtesy: Saab Seaeye)