E-ROV System

Increasing efficiencies in subsea operations

Our self-contained, battery-powered remotely operated vehicle (E-ROV) system increases operational efficiency and combines the best of Oceaneering technologies to deliver an industry-leading, resident ROV solution. This remotely operated system enables operators to intervene faster, keep production online more effectively, and perform routine tasks with fewer deployments.

FEATURES

- Removes need for surface vessel
- Remotely piloted using RPACT
- Increase operational efficiency while reducing cost

Connecting What’s Needed with What’s Next™
E-ROV System

The E-ROV system is capable of performing common ROV tasks including inspection, valve operation, torque tool operation, and manipulator-related activities.

The system interfaces with the Oceaneering onshore Mission Support Center via a 4G mobile broadband signal transmitted from a buoy on the water’s surface and eliminates the requirement for a surface vessel onsite.

Piloting ROVs from onshore is made possible with our proprietary remote piloting and automated control technology. By safely transferring ROV control data and live, high-definition video via satellite or high-bandwidth terrestrial network, we have full real-time control of the ROV and its tooling.

<table>
<thead>
<tr>
<th>eNovus ROV</th>
<th>Subsea Garage</th>
<th>Surface Buoy</th>
<th>Communications</th>
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<tbody>
<tr>
<td>Modified eNovus includes advanced battery technology optimized to handle peak power consumption and support operations</td>
<td>Includes a cage-mounted 100 kW battery pack and tether management system (TMS)</td>
<td>Data/communications buoy hosts an antenna mast to improve signal reception and battery power to support communication transfer Includes a robust, highly-engineered mooring system providing a broadband data connection and suitable weight while addressing sea conditions</td>
<td>Operates via a 4G network with low latency, enabling efficient communication and data transfers. All traffic uses an encrypted VPN channel.</td>
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Advantages

» Reduction in vessel days required to complete operations
» Reduction in carbon footprint and mobilizations
» Enables expedited intervention due to strategic locations subsea
» Enables operators to take advantage of favorable weather windows
» Operations supported by our remote piloting and control technology (RPACT) and Mission Support Centers

We deliver a complete solution. Our one-stop-shop approach is ideal for customers looking to streamline operations, adopt standardization across operations, and save costs while reducing risk.