

EUR21_16 - SUBSEA ELECTRIFICATION APPLICATIONS AND TECHNOLOGY QUALIFICATION RESULTS

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Abstract - The use of subsea processing equipment's, which maintains, increases and speeds up oil and gas production, is now more and more widespread on offshore subsea oil and gas field developments. To meet the technical challenges of these developments, subsea transmission, distribution and conversion electrical equipment's are developed through the ABB Subsea Power JIP where ABB, Equinor, Chevron and Total are partners.

In the first part of the paper, Equinor and Total will present the foreseen subsea processing applications to use electrical subsea transmission, distribution and conversion equipment's. In the second part of the paper, ABB will present the subsea Medium Voltage Variable Speed Drive and Medium Voltage Circuit Breaker modules developed to enable subsea factory vision, then give the technology Subsea Power JIP qualification results and technology readiness level.