

Diversified Technologies' New Subsea Power Conversion System Provides Bi-Directional MVDC Transmission

Diversified Technologies, Inc. has introduced a new electrical power conversion technology for subsea power distribution requirements which is being developed as a Phase II SBIR for the U.S. Navy. This new system allows for the transmission of megawatts at medium voltages over thousands of kilometers and is bi-directional for grid or loop configuration with multiple power sources. Designed for extreme longevity and resilience, they have a 90% probability of operation for 25 years.

BEDFORD, Mass. ([PRWEB](#)) June 26, 2019 -- [Diversified Technologies, Inc.](#) has introduced a new electrical power conversion technology for subsea power distribution requirements which is being developed as a Phase II SBIR for the U.S. Navy.

The [PowerMod™ Subsea MVDC Power Distribution System](#) converts 10 kVDC to 375 VDC directly at the seafloor and is bi-directional for grid or loop configuration with multiple power sources. Allowing the transmission of megawatts at medium voltages over thousands of kilometers, system nodes were designed for extreme longevity and resilience with a 90% probability of operation for 25 years.

By transmitting power at medium voltages, the PowerMod™ Subsea MVDC Power Distribution System is ideal for use with motors, sensors, and specialized electronics devices at the ocean floor. These pressurized power conversion modules measure 18” dia. and reside within the Primary Regional Scale Nodes (RSN) of the NSF Ocean Observatories Initiative at depths down to 3,500 meters.

The PowerMod™ Subsea MVDC Power Distribution System is priced from \$300,000.00 per node, depending upon configuration.

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