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CMR performing validation test of Mitsubishi Electric's DIABREZZA lidar at European offshore site



Photos of DIABREZZA lidar (left), and FINO1 offshore research platform (right)

From August to November 2016, performance test was carried out for Mitsubishi Electric's DIABREZZA lidar at the FINO1 offshore research platform, located in the North Sea, to validate the lidar measurements against reference data from the FINO1 met mast provided by DEWI and BSH. The installation and operation was handled by CMR with support from FINO1 operator FuE Zentrum FH Kiel.

During the measurement period, the lidar has been operating continuously without any issues requiring intervention. The lidar yielded a total overall measurement availability of above 97% for the valid condition range satisfying the inclusion criteria. Independent data analysis performed by CMR show a good correlation between the lidar measurements and the reference data from the FINO1 met mast, with slope between 0.99 and 1.01, and correlation coefficient above 0.99. This confirms the DIABREZZA lidar is meeting the performance requirements as outlined in NORSEWInD standard also for offshore conditions.

CMR (Christian Michelsen Research AS): Norwegian research institute with the vision of conducting research for industrial deployment. CMR is hosting the offshore wind energy consortium NORCOWE, and has been responsible for onshore and offshore measurement campaigns using wind lidars.

Mitsubishi Electric Corporation: The global leader in the manufacture of electrical and electronic equipment, including wind lidar. The DIABREZZA lidar has been released in 2013 and been validated by many third parties, concretely, DNV GL, DTU, Ecofys, Dong Energy, ECN, in addition to CMR. The DIABREZZA is shown in the web site (<http://www.mitsubishielectric.com/bu/lidar/>).