Press Release
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HYON AS: Receives world’s first approval-in-principle from DNV GL of module-based fuel cell solutions for use in maritime environment

As the first company ever, HYON AS (“HYON”) has received approval-in-principle from DNV GL of their module-based fuel cell solutions, adapted for maritime use. The approval builds on the MS-100 fuel cell from PowerCell and open for a general application of fuel cells in ships.

“This demonstrates that HYON now have ready-made and approved modularised solutions for fuel cells on-board ships with all needed safety- and ancillary systems. The approved solutions can be installed above or below the main deck and encompasses cabinets from 100kW up to containers of megawatt power. The HYON/PowerCell solutions are significantly smaller and lighter than marine power generators of equal power based on diesel or gas as fuel,” says Marine Technology Director at HYON, Arild Eiken.

“With the approval we demonstrate to the market that there are safe solutions available for having hydrogen and fuel cells aboard all types of ships. This is a milestone in preparing for hydrogen fuel in maritime applications since the approval is based on the newly launched and detailed revision of DNV GL Rules for Fuel Cells. We thank DNV GL for excellent cooperation during the approval process”, says Managing Director of HYON, Tomas Tronstad.

HYON uses PowerCell as supplier of fuel cells, with their world leading fuel cell properties on energy density and low weight. In maritime applications, the building block of HYON’s modules is PowerCell’s fuel cell MS-100 with electric output of 100kW.

With increasing pressure for shipping to reduce harmful emissions, the latest example being the international shipping organisation IMO’s decision to half the sectors emission by 2050, the maritime market is becoming an attractive market for hydrogen technology. Confirmed projects that will utilise hydrogen technology is already under way for ferries and high-speed vessels. Short sea shipping including cruise vessels with fixed routes, work boats and offshore vessels are examples of other ship segments where hydrogen is well matched.

HYON is a joint venture company owned by Nel ASA, Hexagon Composites ASA and PowerCell Sweden AB.
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About HYON AS:  
HYON is a joint venture established in 2017, owned wholly by Nel ASA, Hexagon Composites ASA and PowerCell Sweden AB. HYON provides customers with one point of contact for provision of products and services; from production of hydrogen, distribution and storage, dispensing systems and fuel cells. HYON’s main focus is the maritime industry, where HYON offers system integration of all on-board hydrogen systems from bunkering flange, via tank systems and distribution systems to use of hydrogen in module-based fuel cells solutions.