



Press release

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CETH – Compagnie Européenne des Technologies de l’Hydrogène

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The European Company of Hydrogen Technologies (CETH) announced the commercialization of medium capacity PEM electrolysers. **CETH has recently delivered to a major gas supplier company a PEM electrolyser of 3 Nm³/h nominal capacity able to produce up to 5 Nm³/h hydrogen at peak power (1 A/cm²).** The PEM electrolyser technology, based on a 600 cm² cell surface, has been developed by CETH in partnership with the French University Paris-Sud (ICMMO) through the FP7 European project GENHYPEM.

The PEM electrolyser is designed to be coupled with renewable energy sources to produce clean and pure hydrogen for both energy storage and transport application with electrolytic compression up to 10 bars and 72% system efficiency at 0,6 A/cm² (at 3 Nm³/h). The heat recovering system, directly placed on the electrolyser stack, provides warm water for heating purposes allowing maximizing the overall system efficiency up to 90%.

CETH, which is involved in defence and transport demonstration programs in France, conducts research activities on 25 Nm³/h stacks in order to propose 50 to 100 Nm³/h PEM electrolyser systems at 50 bars for fuel cell stations. In addition, the promising long term tests performed with novel non-noble electro catalysts for PEM technologies, developed by CNRS-ICMMO will allow meeting DOE-EU costs and durability targets.



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