



May 28th 2013

Press release

Opening of the Innovation zone of the Hynor Lillestrøm station

Today marked an important step for hydrogen development in Norway, when the Innovation Zone of Hynor Lillestrøm was formally opened. The station has been open for almost a year at Akershus Energy Park and has serviced a number of FCEV's¹ during that time.

The Innovation Zone is a part of the station where innovative new hydrogen technologies will be tested and demonstrated, in conjunction with the operation of the station.

There are two main components in the Innovation Zone. A SESMR reformer, developed by the Institute for Energy Technology (IFE), and a metal hydride compressor developed by Hystorsys. Both are based on Norwegian R&D, and can play an important role in providing hydrogen to refuelling stations or industry as the demand for hydrogen is expected to grow rapidly in the coming years, with commercial production of vehicles expected from 2015.

The reformer will produce hydrogen from purified and upgraded biogas, and will be in operation later this year. The metal hydride compressor is now in operation, and has several advantages over traditional types of compressors, as it has almost no moving parts, very low noise, is flexible in size and has very low energy consumption. At the Hynor Lillestrøm station the compressor will receive H₂ at 10 bar and will compress it to 200 bar.

Hynor Lillestrøm

Hynor Lillestrøm AS is responsible for the overall design, construction, and operation of a hydrogen refuelling station with on-site hydrogen production based on renewable energy sources. The station is located in Akershus Energy Park in Lillestrøm, ca. 30 km north of Oslo. Hynor Lillestrøm also provides courses and works with information and dissemination.

Hystorsys

HYSTORSYS is a spin-off company from IFE, specialized in developing high purity compressors for hydrogen with almost no moving parts and practically no noise and vibrations, and using waste heat.

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¹ Fuel Cell Electric Vehicles