



MARIESTAD

ElectriVillage

Renewable energy

In January 2017, Sweden's fifth hydrogen station was set up in Mariestad. The station is designed to refuel fuel cell cars and is an important part of the Swedish infrastructure for hydrogen refueling which is under development. It is also an important part of a unique system with solar energy and hydrogen, called "H2E", which is being built in the city.



World Unique energy solution

The energy system H2E is unique in its kind. It is so far the only existing hydrogen refueling station globally, powered by solar energy from a solar park. The solar energy will be used to produce hydrogen. Additionally, excess energy will be stored by means of hydrogen gas, and may be used as back-up on the grid when the sun does not shine. In parallel, Mariestad is also building two kindergartens to be operated with this type of energy system.

Co-operation for sustainable energy

The energy system H2E with solar and hydrogen is the result of a collaboration between municipality of Mariestad and Nilsson Energy AB. The filling station is manufactured by Nel Hydrogen and is thereby part of an EU project. The station has been mainly financed by the supplier itself, the EU, the Västra Götaland region, and to a smaller part of Mariestad. The entire energy system is being operated by the municipal energy company, VänerEnergi AB.