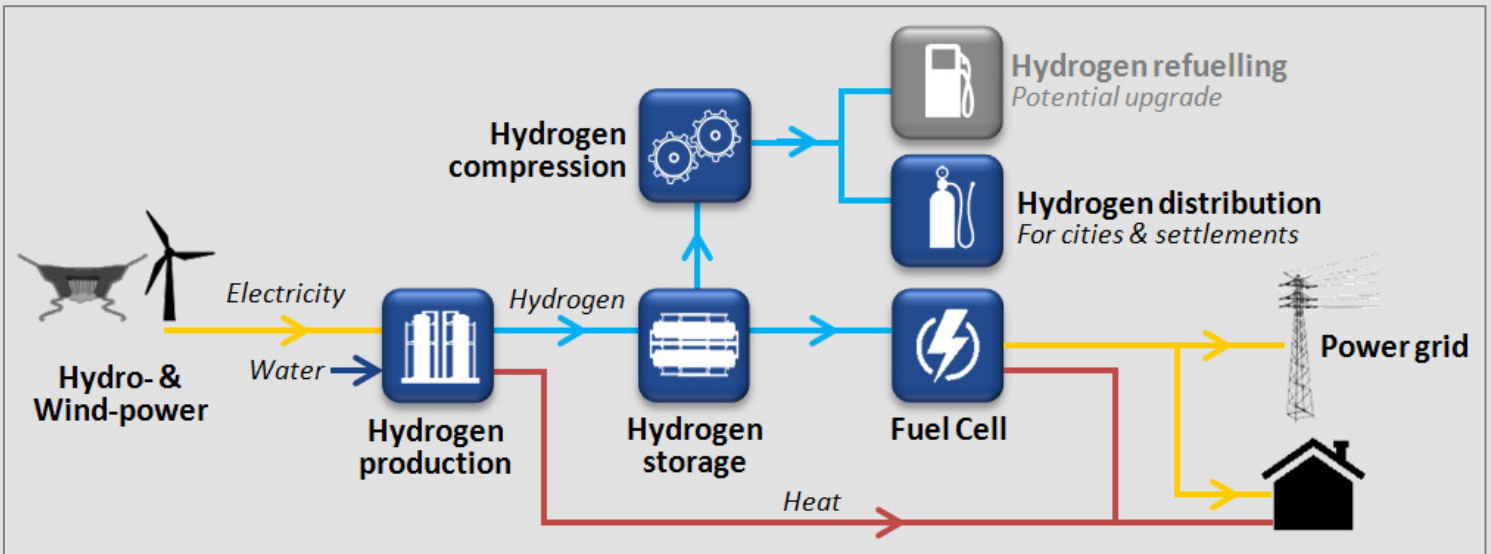


# STORAGE OF RENEWABLE ENERGY WITH HYDROGEN & FUEL CELLS IN GREENLAND

## INFORMATION ABOUT THE H<sub>2</sub>KT-PROJECT



The H<sub>2</sub>KT-project is to demonstrate the use of hydrogen and fuel cells for storing of renewable energy in Greenland.

An experimental plant will be established in the capital Nuuk where electricity will be used to split water into hydrogen. The hydrogen is then stored for later use in a fuel cell where it is converted to electricity and heat. Waste heat from the hydrogen production and the fuel cell is used for local heating while the electricity is supplied to the grid or used locally.

The produced hydrogen can also be compressed and distributed in bulks to other cities and settlements where it can be used for local energy production. The plant is also prepared for a future upgrade with a hydrogen refuelling station, enabling use of hydrogen as fuel for transport.

PLANT SPECIFICATIONS	
Hydrogen production type	Alkaline water electrolysis
Production capacity	19,4 Nm <sup>3</sup> /hour (max.)
Hydrogen storage capacity	185 Nm <sup>3</sup> at 12 bar
Energy storage capacity	12 hours power production
Fuel cell power effect	20 kW
Grid supply	400VAC 3 phase
Compressor capacity	12 Nm <sup>3</sup> /hour
Compressor pressure	240 bar (up to 450 bar)
Heat utilisation	From electrolysis & fuel cell
Control and surveillance	Remote operable SRO-system

### FURTHER INFORMATION

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