



荷兰氢电 氢能电站：案例分享

20-06-24



Nedstack


PEM FUEL CELLS

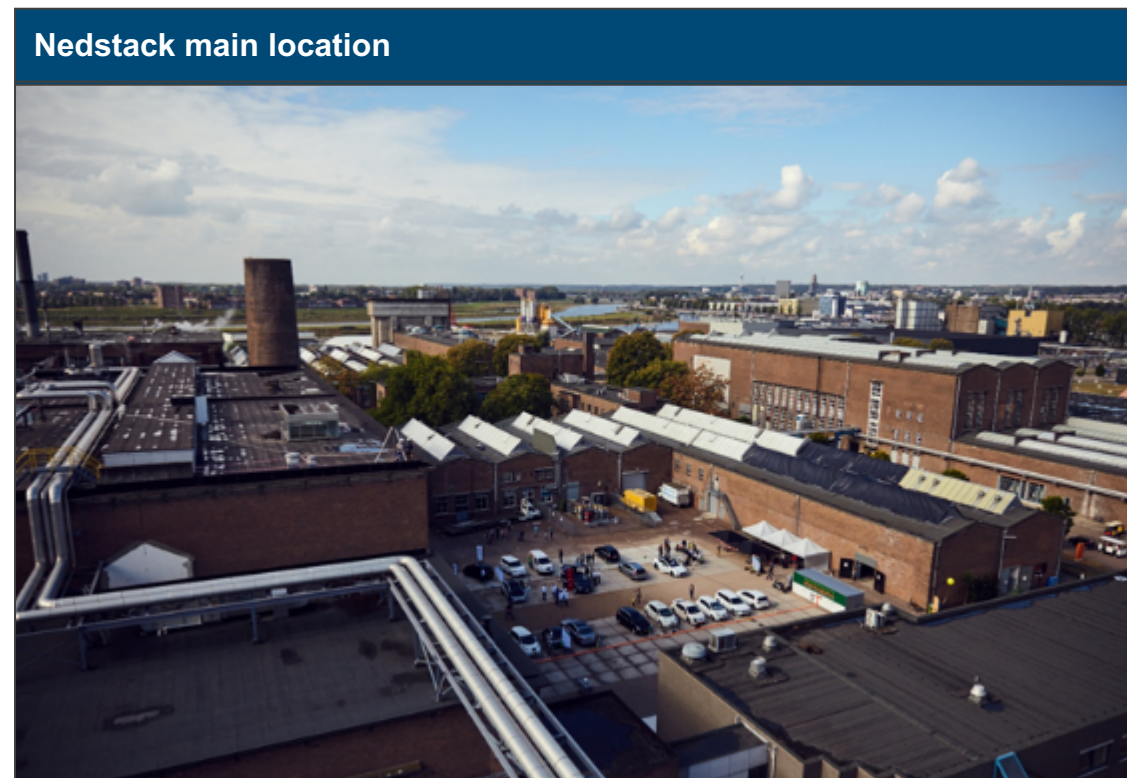
To be sure.

Name	Nedstack Fuel Cell Technology BV
Location	Westervoortsedijk 73, Arnhem, the Netherlands
Founded	1999
Ownership	Privately

High lights
<ul style="list-style-type: none"> Independent Company since 1999 (Akzo-Nobel spin out); Leading Global Player in PEM-FC R&D; In-house Cell plate production and Stack Assembly; > 700 FC Systems installed-base as per 2017; > 23.000 Hours in-use Lifetime demonstrated; Highly competent Application Support team in-house; Strong footprint in EU and China

Industries Served
<ul style="list-style-type: none"> PEM FC-Power Plants Commercial Vehicle FC Range Extenders Marine Fuel Cell Power Modules Back Up Power Supply Units

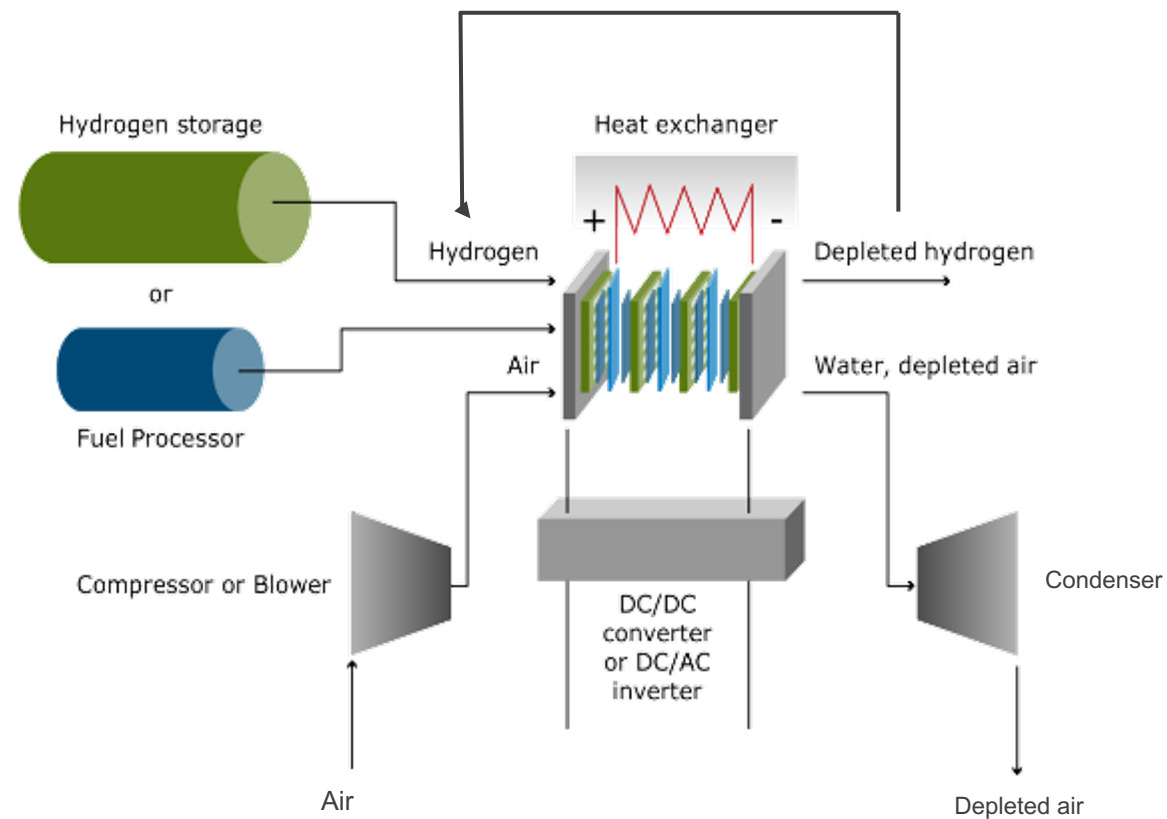
Website	www.nedstack.com
Industry	PEM Fuel Cells
Logo	 Nedstack <small>PEM FUEL CELLS</small>

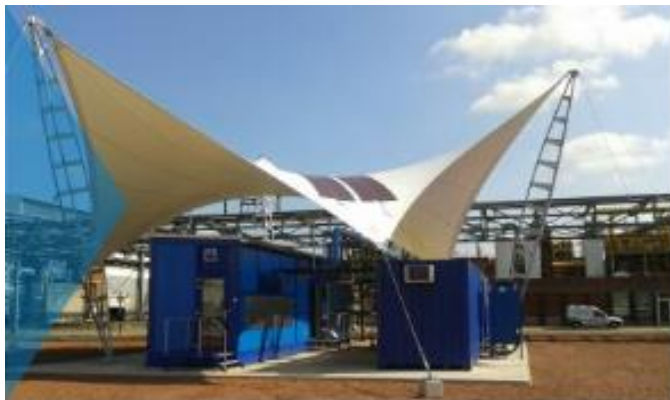







核心技术及氢能电站方案介绍

Fuel Cells are parts of larger Power Plants





Industry

-  Chlor-Alkali industry
-  Sodium-Chlorate Ind.
-  Semi-conductor

Challenge

Chlor-alkali plants are among the main producers of by-product hydrogen. Worldwide, 50 million tons of chlorine is produced annually. Fuel cell conversion of all by-product hydrogen from global chlorine production alone would yield 3000 MW of continuous power.

Value Proposition

Nedstack PemGen Fuel Cell Power Systems allow for capturing by-product hydrogen and converting it in useful heat and power. This results in up to 20% energy savings on electrolysis costs and avoids massive NOx emissions in the process.

Market		Nedstack PemGen fit	
Market Size	Actionable	PemGen Fit	Compliancy
low	good	high	high



PEMGEN™
Fuel Cell Power



Highlights

- At Nedstack we have developed a portfolio of power systems around our extended long life (XXL) PEM-FCS stack platform.
- Rationalized over the lowest possible levelized cost of energy (LCOE) within boundaries of absolute reliability, availability and safety.
- The PemGen platform is based on the Nedstack Central BoP philosophy for extreme plant life and superior serviceability;
- Configurable to customer requirements;

1) PemGen is a Nedstack European registered trademark. Registered at EUIPO under NO. 018036949

实例参考



"The oldest LT-PEMFC power plant is still in operation today, without major maintenance requirements"





"Nedstack was the first to build a 1 MW PEMFC plant in the world"

2011, 1 MW FC POWER PLANT – PORT OF ANTWERP, BELGIUM

DemcoPEM 2 MWe PEM Power Plant



Global Market Leader in the PEM Power Plant segment

Company

Capabilities

F.C. Technology

Solutions





Nedstack

PEM FUEL CELLS

To be sure.

Hack Heyward 江海克

China Maritime Fuel Cells

大中华地区燃料电池解决方案

NedStack

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