


NOVGERA

H2 Fuelling Stations

For customers



Introduction

We provide
Hydrogen
infrastructure
solutions
to help to help
our customers
and society
achieve net zero

Hydrogen is a versatile energy carrier, which can help tackle various critical energy challenges. Hydrogen infrastructure such as fuelling stations and transport is essential to the development of hydrogen economy.

H2 Infrastructure Solutions

To help to facilitate the growth of the hydrogen economy and fuel cell cells. Hydrogen technology requires the development of services and facilities such as hydrogen fuelling stations. With the growing maturity of hydrogen applications we provide our customers with the following services:

- Development of Hydrogen station projects;
- Feasibility of Hydrogen station development (including site selection suggestions, layout description and a financial analysis);
- Comparative analysis of Hydrogen station products/models to assist product selection
- EPC of the hydrogen station equipment;
- Operation guarantee of the Hydrogen station and
- Artificial Intelligence for IT Operations (IoT, Vehicle-to-everything) and other services.



Hydrogen Fuelling Station Equipment

The Hydrogen fuelling station is a modular solution

The fixed Hydrogen station is equipped with a complete set of equipment to provide a multi modular hydrogenation solution, skid mounted unloading, pressurisation, storage and rapid hydrogenation and cooling modules.

The whole station is equipped with a safety control system, which can realize hydrogenation, cooling, metering, safety control, remote intelligent diagnosis, real-time monitoring of key equipment, This includes big data analysis, cloud computing and other system functions.



Technical Overview

An Integrated whole station hydrogenation system

The containerized pressurized hydrogenation device provides a fast and efficient solution for an integrated whole station hydrogenation system, integrating hydrogenation, cooling, metering, safety control and other system functions. The manufacturing, integration, testing, and other processes of the equipment are all completed in the manufacturing plant.

The construction of the station only requires the simple connection of the container type system module with the external hydrogen storage bottle group (energy storage device) and low-temperature cooling system, which can achieve rapid and efficient continuous hydrogenation. The hydrogenation speed can not exceed 5 minutes per vehicle.

Complete equipment for emergency hydrogenation

Using compressed air or nitrogen as the driving force, it can work without electrical facilities; Strong pressure boosting ability, with a maximum hydrogen pressure boosting of up to 600BAR;

Suitable for workplaces with explosion-proof requirements (ATEX94/9EG) - small size, light weight, suitable for mobile hydrogenation and experimental applications.



Container type pressurized hydrogenation device

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Technical Specifications	
Hydrogen production flow	100-600m ³ /h
hydrogen generator working pressure	1.5Mpa/3.5Mpa
storage pressure	1.5Mpa-70Mpa
refueling pressure	35Mpa/70Mpa
equipment dimension	35m*2m*22m

