

LONGi Hydrogen

Dedicated to becoming a world-leading hydrogen technology company

LONGi Hydrogen is a holding subsidiary of LONGi Group
Green Energy + Green Hydrogen will promote the energy transformation process and help to achieve the goal of carbon neutrality.

Milestones

2018

- Carried out strategic researches to the hydrogen industrial chain
- Developed technology of electrolysis hydrogen equipment with science and research units at home and aboard

2021

- March 31, registered in Xi'an Hi-tech Industrial Zone
- Hydrogen production equipment plant locates in Wuxi, Jiangsu

2021

- October 16, launched the first ALK electrolysis hydrogen equipment
- December 31, achieve 500MW production capacity

2022

- Scheduled capacity is 1.5GW

2025

- Scheduled capacity from 5 to10GW

Parent company advantages

- Global leading brand of Photovoltaics
- The shipments of photovoltaic wafers and modules ranks first globally in 2021

BloombergNEF

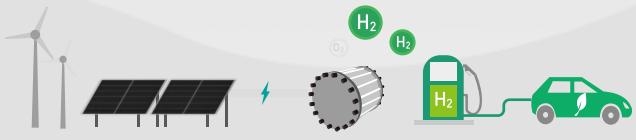
- Achieve 100% bankability evaluated by BloombergNEF

- Included in the FTSE Russell A-share index and Shanghai Stock Exchange 50 sample stocks

Forbes

- Ranked No. 839 in Forbes "Global 2000-The World Largest Public Companies" in 2021

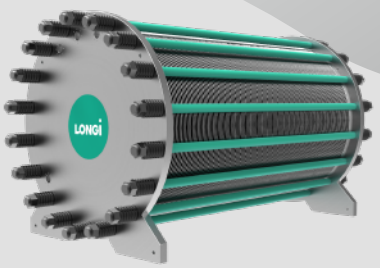
Value Chain Positioning



Green Energy: Photovoltaic products and solutions

Green Hydrogen: ALK electrolysis hydrogen equipment

Product Advantages



Safe and Reliable
- Standardized production
- One click Start & Shutdown
- Complete traceability of pressure components

Green energy for hydrogen production
- Suitable for PV, wind and other renewable energy
- 25%-115% quick load response: ＜600ms

Long Lifecycle
- The product lifecycle can reach 200,000 hours
- Full lifecycle services

Energy saving and high efficiency
- DC power consumption 3.9~4.4kWh/Nm^3
- Higher current density 2500~5000A/m^2

Grid friendly
- THD＜3%
- Reactive power compensation -0.9~0.9*

* IGBT power is needed

Leading technology
- Continuous high R&D investment
- Advanced materials
- Large-scale electrolyzer, Modular design
- Digital service

Specifications

	LHy-A800	LHy-A1000	LHy-A1500
Net Production Rate (Nm^3/h)	800	1000	1500
Delivery Pressure (barg)	16 (Adjustable)		
DC Power Consumption (kWh/Nm^3)	3.9-4.4		
Rated Power (MW)	4	5	7.5
Production Capacity Dynamic Range	25%-115%		
Purity – with optional purification	99.999%		
O_2-Content in H_2 (ppmv)	＜1		
H_2O-Content in H_2 (ppmv)	＜1		
Operating Temperature (℃)	90±5		
Lifetime (h)	⩾200,000		
Footprint (m^2)	260	260	280
Ambient Temperature (℃)	5-40		
Electrolyte	30%KOH aqueous solution		

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