



# WaterLyzer

Green Hydrogen Production  
Water Electrolysis System  
using Fresh Water and Seawater





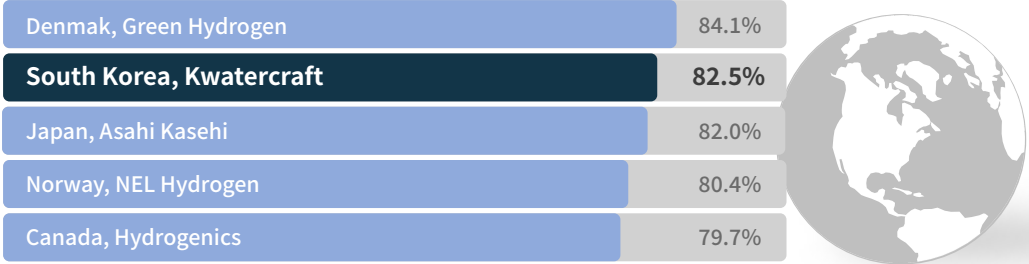
## WaterLyzer

High-efficiency and high-purity green hydrogen production system based on alkaline electrolysis.

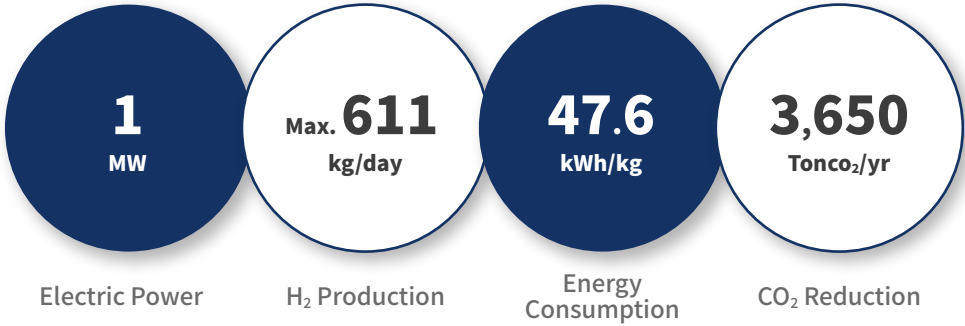


### 82.5% World-Class Efficiency Rate

Performance maintenance through evenly distributed Ni-Co alloy-based nanocone catalyst that lowers overvoltage to produce a lot of hydrogen with little power.

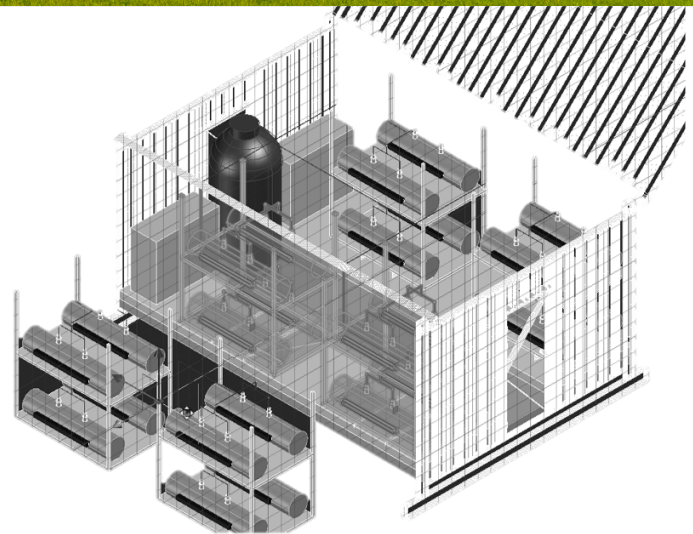


### 1MW WaterLyzer





Realization of the clean energy era through energy service innovation.



## Specifications

\* Optional

Production rate	Max. 283 Nm <sup>3</sup> /h, 611 kg/24h
Hydrogen output purity (with dryer)	99.995%
Output pressure	Up to 35 barg
Nominal power consumption per kg of H <sub>2</sub> produced	47.6 kWh/kg
Operative power consumption	1,000 kW
Power supply	380 VAC three-phase, 60Hz
Water consumption	255L/h
Water input pressure range	0.5 - 4 barg
Ambient operative temperature range	5 °C to 45 °C
Ambient operative humidity range	Up to 95% Rh, non-condensing
IP rating	IP 65
System life	20 years
Dimensions	2 x 40ft container
Weight	Approximately 45t
Control and monitoring	Modbus TCP over Ethernet, EMS via TCP over 2.4GHz Wi-Fi or Ethernet*
Conformity	CE(2014/35/EU), CE(2014/30/EU), ISO22734 in progress, KC (KGS/AH271/2023) in progress