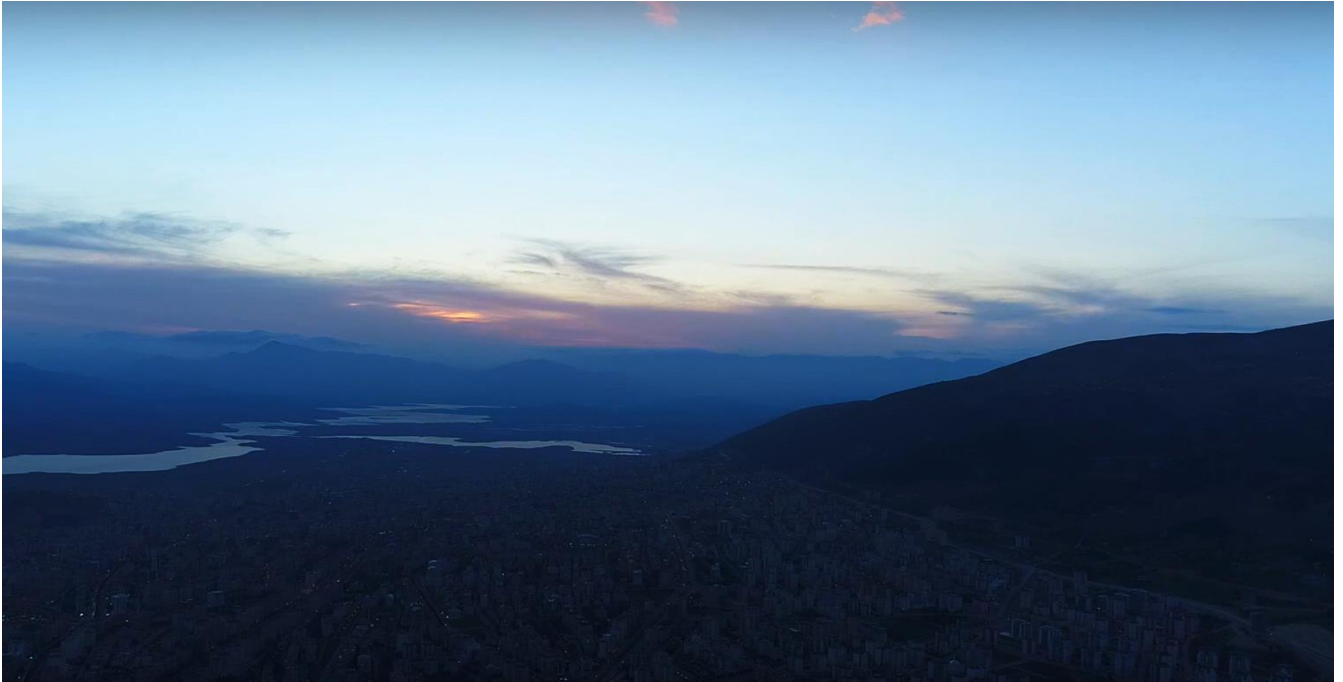


ENABLER OF COST-EFFECTIVE GREEN HYDROGEN

## **HYMETH-HYAEON25 PRESSURIZED ALKALINE ELECTROLYZER**



### **PRODUCT**

HYAEON25 is our high-efficiency alkaline electrolyzer. With a verified cell-level efficiency of 90%, HYAEON is the market-leader of alkaline electrolyzers. The patented system will deliver cost-effective hydrogen up to 350 bars for any hydrogen project.

### **APPLICATIONS**

Our electrolyzer is providing green hydrogen at high pressure and low cost which is essential to decarbonize mobility, industry and energy segments.

**Chemicals:** Ammonia production, fertilizers.

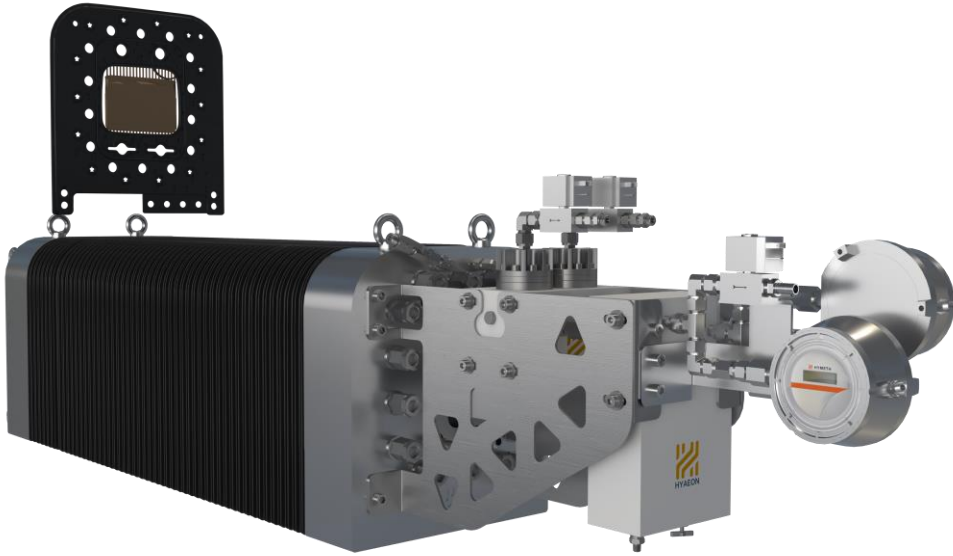
**Mobility:** Long-haul trucks, shipping and airplanes.

**Energy:** Grid balancing and energy storage.

### **Unique Selling Points**

- ✓ 90% efficiency on cell-level which is 15-30% better than competitors.
- ✓ Pressurization system makes external compressor redundant.
- ✓ Recyclable and non-dependent of rare and noble metals.
- ✓ Lifetime of 20 years.

## HYMETH-HYAEON25 PRESSURIZED ALKALINE ELECTROLYZER



### Hydrogen Production

Net Production	5.5 Nm <sup>3</sup> /h
	0.5 kg/h
Production capacity range	25% ... 100%
Delivery pressure <sup>1</sup>	0-350 bar without additional compression
Hydrogen Purity	98.5-99.5% before gas cleaning

### Electrical Efficiency

Specific power consump. At stack level (DC)	4.28 - 4.47 KWh/Nm <sup>3</sup>
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### Feedstock

Demineralized Water	4.5 l/h
Electrolyte	30% KOH aqueous solution

### Other Specs

Stack Lifetime <sup>2</sup>	80.000-90.000 h
Operating temperature	55-65 Celcius
Footprint <sup>3</sup>	2.2 x 1.5 x 0.6 m (19-inch rack)

1. Hydraulic unit based on customers need  
 2. Benchmark for alkaline electrolyzers  
 3. Including pumps, powerpack, electrical and plumbing