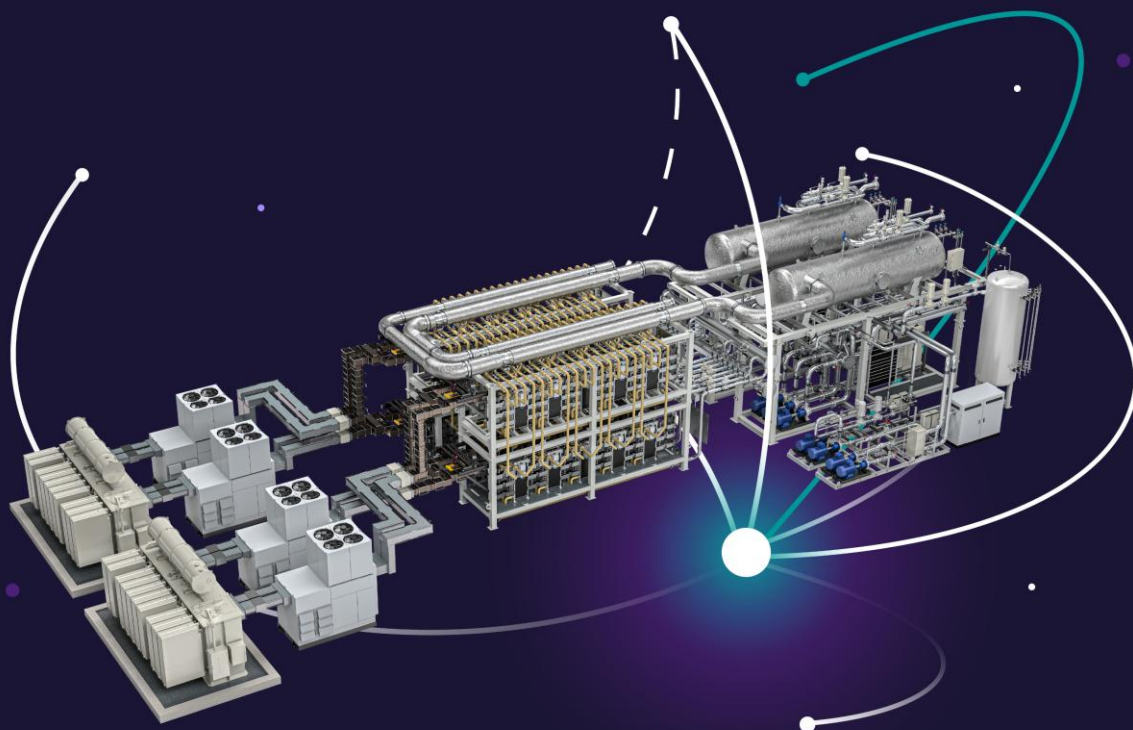




Factsheet

Elyzer P-360

The new pressurized PEM electrolyzer

We set the standard with the Elyzer P-300.

With the Elyzer P-360, we've raised the bar.

As an evolution of the Elyzer P-300, the new 50MW Elyzer P-360 expands Siemens Energy's PEM electrolyzer portfolio with a system built on proven experience:

- 330 MW of electrolyzers in operation,
- 1 GW in execution,
- ~ 400,000 operating hours in the field,
- ~ 10 million kg of hydrogen produced.

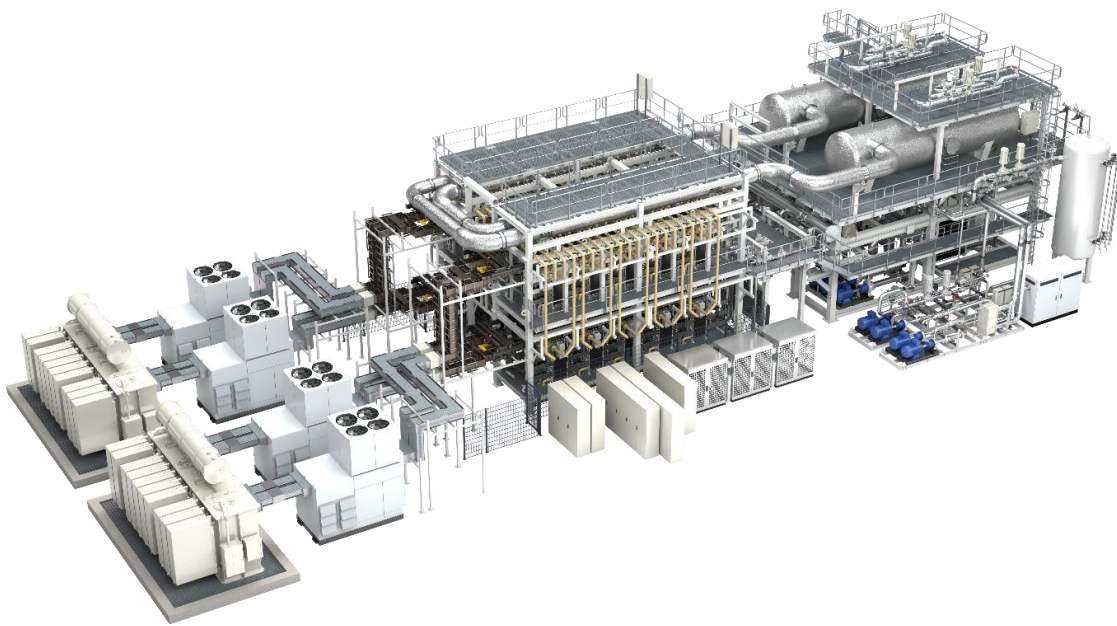
Manufactured at our gigawatt-scale electrolyzer factory in Berlin, the Elyzer P-360

- combines a modularized, moderate pressure 10-bar design with high power density,
- reduces footprint, site work and 20% of total installed cost (TIC), while enabling efficient plant scale-up.

Pressurized.

Modularized.

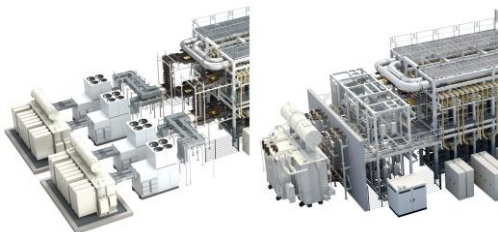
Compact.



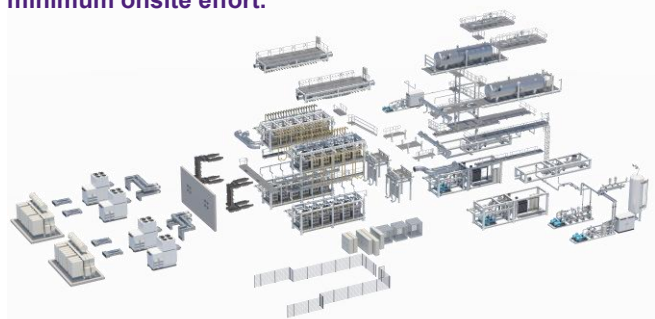
Stack design philosophy proven in operation in ~500 Elyzer P-300 stacks.



Grid compliant – IGBT or thyristor-based rectifiers available. Flexible operation with high ramp-up and ramp-down.



Highly modularized and pre-manufactured skids for minimum onsite effort.



High serviceability and accessibility. Easy access by integrated lift and drop stack exchange tool.



Facts and figures

Electrolysis type	Proton Exchange Membrane	Delivery pressure (H ₂ and O ₂)	10 bara
System size	~ 50 MW	Footprint (50 MW System IGBT-based, transformers outdoor)	48 x 20 m ²
Hydrogen production	~ 920 kg/hour	Start-up time	30 sec, enabled for FCR ¹
System AC efficiency (including power electronics)	< 55.5 kWh/kg	Dynamics in range	10% /s in 0 – 100%
Dry gas quality (with DeOxo)	99.999 %	Minimal load	40% single stack
Demineralized water consumption	~ 10 l/kg H ₂	Certification	CE, ATEX, SIL, PED ² conform

1 Frequency Containment Response 2 Pressure Equipment Directive

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