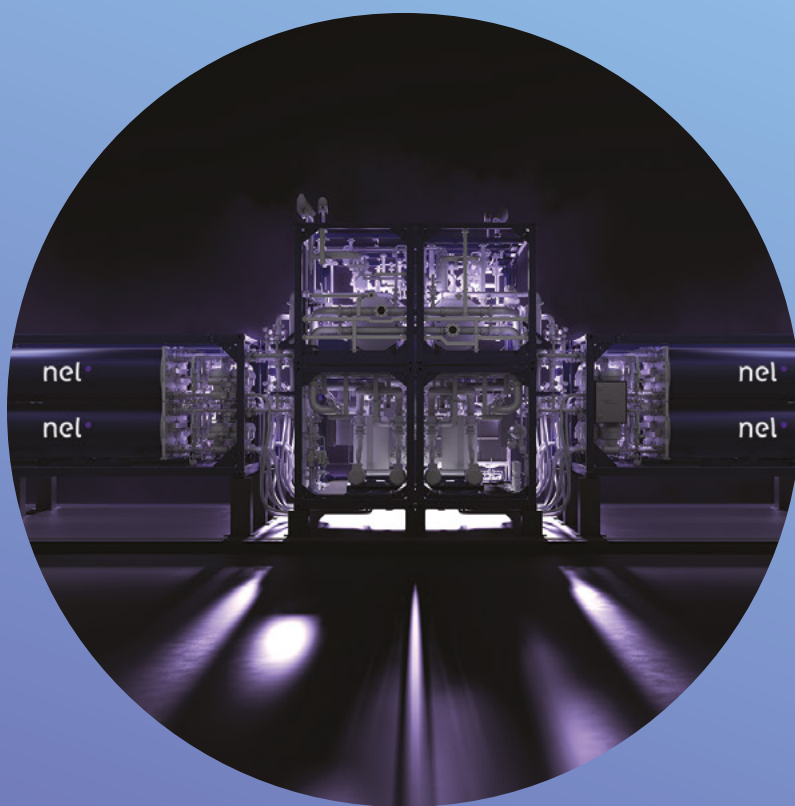


Pressurised Alkaline Electrolyser



Pressurised Alkaline Electrolyser

Nel's next generation pressurised alkaline electrolyser platform is a compact, modular hydrogen generation solution engineered for scalable deployment and outdoor operation. Built on Nel's proven alkaline technology, this system integrates a high-performance electrolyser cell stack with integrated gas processing modules to reliably deliver hydrogen with reduced capital cost, in an optimized footprint.



Key Features

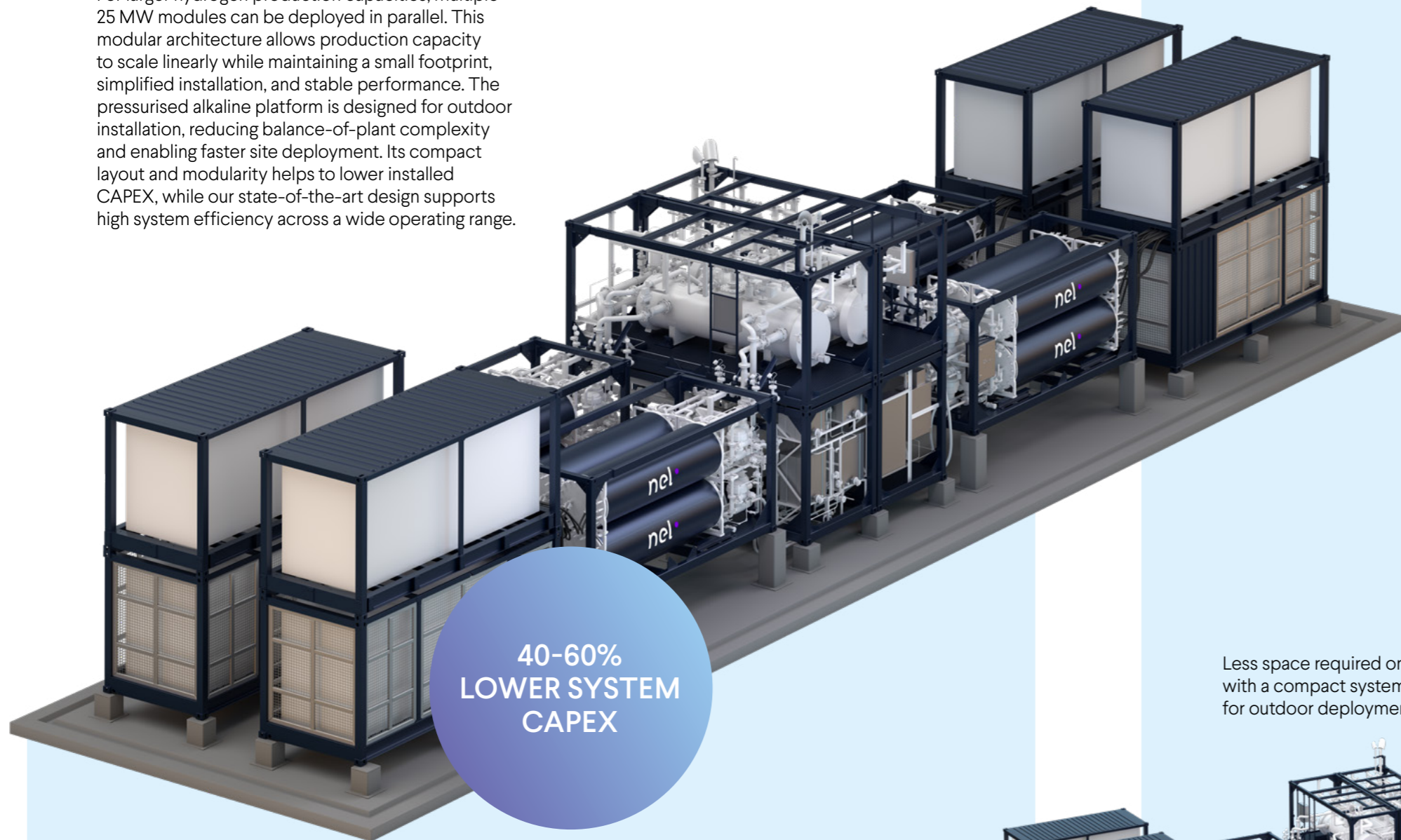
- Significantly improved cell design
- Pre-fabricated, containerized modules
- Compact system footprint and material usage
- Outdoor design
- Easy transportation
- Highly responsive system with wide operating range
- Pressurised hydrogen and oxygen generation

nelhydrogen.com

Compact, modular, and built to scale, making hydrogen production simple, efficient, and future-ready.



The gas processing module serves up to four electrolyser stack skids (with four stacks in each skid), enabling a standardized, repeatable building block. For larger hydrogen production capacities, multiple 25 MW modules can be deployed in parallel. This modular architecture allows production capacity to scale linearly while maintaining a small footprint, simplified installation, and stable performance. The pressurised alkaline platform is designed for outdoor installation, reducing balance-of-plant complexity and enabling faster site deployment. Its compact layout and modularity helps to lower installed CAPEX, while our state-of-the-art design supports high system efficiency across a wide operating range.



**40-60%
LOWER SYSTEM
CAPEX**

Standardised modules that can be deployed and expanded in parallel, enabling linear scaling as demand grows.

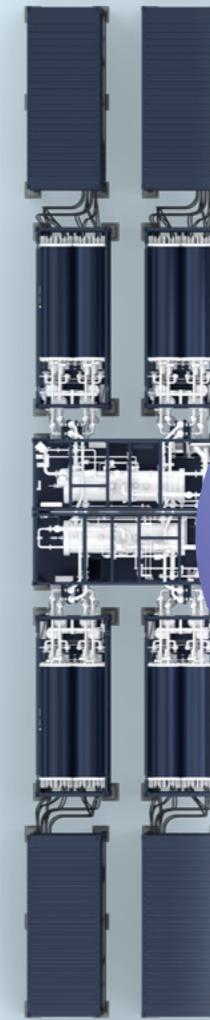
Utility Requirements

Nel provides specifications for utility requirements, but it is the responsibility of the buyer to design for and provide them. With Nel's standard scope, the following utilities shall be provided by the buyer:

- Demineralized water
- Nitrogen for occasional purging
- AC power to the system
- Process cooling
- Instrument air

35 m

6.5 m

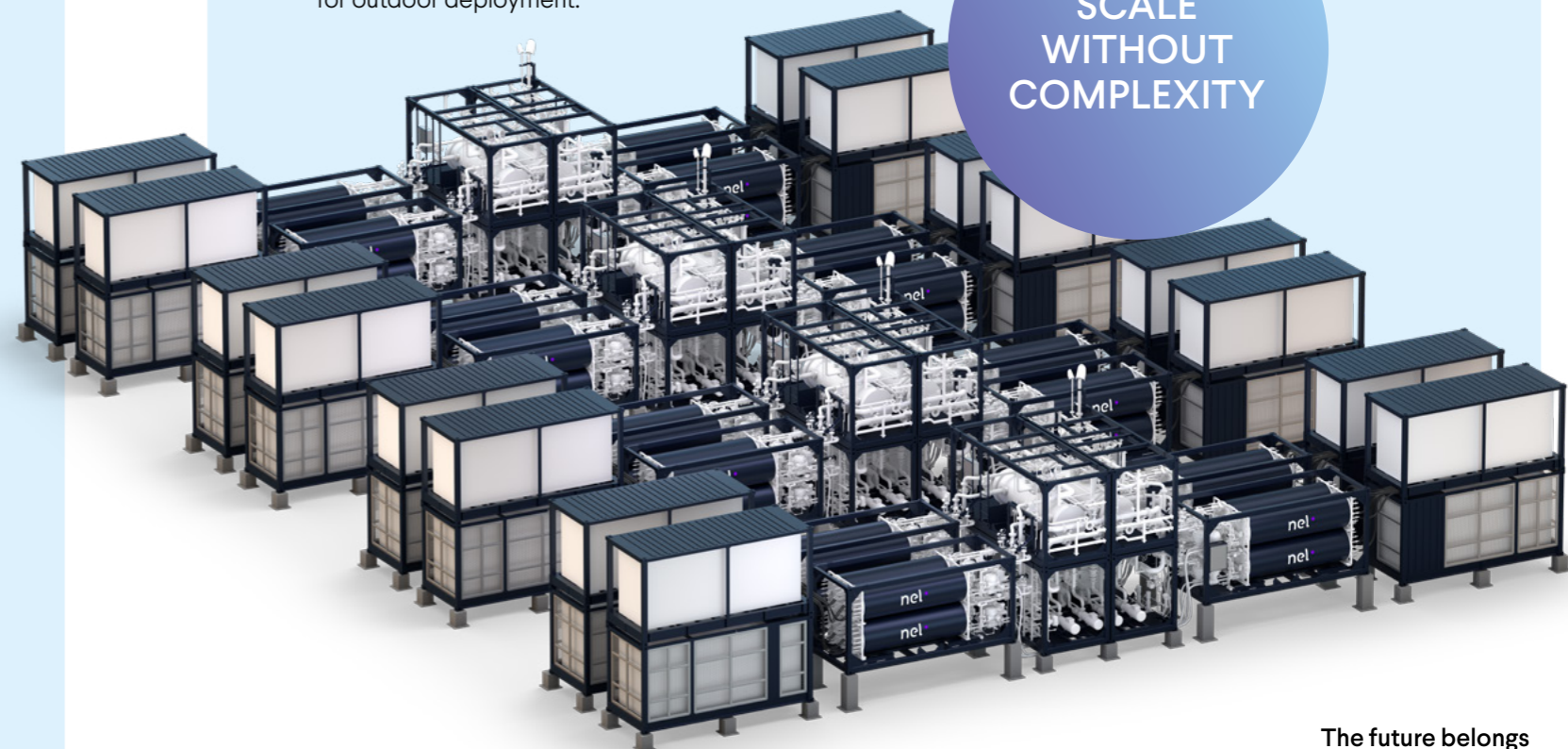


A compact, modular design reduces installation complexity and cost, improving overall project economics

**80% SMALLER
FOOTPRINT**

Less space required on site, with a compact system designed for outdoor deployment.

**SCALE
WITHOUT
COMPLEXITY**



The future belongs to the front-runners

nel•

