

GR-2025-23 | 2025 LENS | ASIA • GLOBAL

Hydrogen and alternative energy: prove the buyer

An attractive technology is not yet a financeable project.



Illustrative photograph; no project or client endorsement implied.

THE EVIDENCE

IEA Renewables 2024 forecast renewable hydrogen at only 4% of hydrogen production in 2030. This highlights an offtake challenge in that forecast vintage.

THE BUSINESS IMPLICATION

The 2025 lens compares hydrogen, geothermal, bioenergy and other alternatives against an actual customer requirement. Include transport, storage and conversion losses. Stage studies before construction, using buyer specification and credit strength as decision gates.

WATCH THE DOWNSIDE

Announcements, memoranda and conditional offtake are not equivalent to binding revenue contracts.

DECISION FRAMEWORK

Buyer	Specification, volume and price
Delivery	Feedstock and infrastructure
Funding	Milestones before irreversible capex

COMMISSIONED SCOPE

Technology-neutral options appraisal, offtake diligence, cost model and project-readiness review.

Request a tailored full report and quotation: gisreserve.com/contact

SOURCES & METHOD

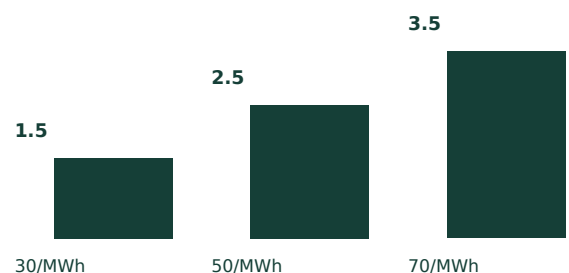
1. IEA, Renewables 2024
2. IEA, Global Hydrogen Review 2024

Source links are clickable. Image credit and full source URLs appear in the online brief.

Newly published 20 Sep 2026; year denotes subject lens. Scenarios are illustrative, not investment forecasts. Full reports are commissioned under a separate scope and fee. No assurance of funding.

Illustrative hydrogen electricity input cost

Unit: currency/kg



GIS Reserve assumptions: 50 kWh electricity per kg × tariff. Excludes capex, water, compression, transport and financing.

