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ABIHV brings together member companies that act as suppliers of equipment, systems and specialized services for the low-emission hydrogen ecosystem in Brazil. This factsheet objectively and factually consolidates the capabilities of these suppliers across the value chain (production, conditioning, storage, transportation, conversion and electrical integration), highlighting applicable portfolios, technological maturity, certifications, service capacity and relevant milestones. The material supports the Association's institutional dialogue with investors, project developers, EPCs, offtakers and policymakers, demonstrating the readiness and localization potential of the supply chain.

ANDRITZ Hydro

<p> Location</p> <p> Main Products/Solutions</p> <p> Category</p> <p> Installed Capacity/Service</p> <p> TRL/Maturity</p> <p> Projects/References</p>	<p>Brazil: Araraquara (SP) – electrolyzer gigafactory under implementation. Germany: Erfurt – gigafactory in operation.</p> <p>Complete P2X (EPC) plants for H₂V, e-methanol and e-ammonia. Alkaline electrolysis (AEL) in partnership with HydrogenPro. Proprietary CO₂ capture technology. Life cycle services (LTSA) and digital platform Metris.</p> <p>AEL electrolyzers; P2X EPC/integration; CO₂ capture; services (LTSA) and digital (Metris).</p> <p>Erfurt (DE): ~1 GW/year (160–200 electrolyzers/year). Araraquara (BR): ~1 GW/year (under implementation).</p> <p>P2X integrations with performance guarantees (indicative TRL 8–9).</p> <p>Reference: 100 MW H₂V plant (REPCO), Rostock (Germany). STACK ONE 6.25 MW electrolyzer for testing and trials.</p>	<p> Differentiators</p> <p> Scalability</p> <p> Partnerships</p> <p> Investment/CAPEX</p> <p> Milestones Achieved</p> <p> Other Relevant Data</p>	<p>Complete P2X chain integration (electrolysis to synthesis). EPC guarantees and full installation responsibility. Metris for autonomous operation and predictive maintenance. Scalable industrial capacity (BR and DE).</p> <p>Modular solutions; expansion through plant replication and increased manufacturing capacity.</p> <p>HydrogenPro (AEL) and synthesis licensors (methanol/ammonia); partnerships with sub-suppliers.</p> <p>Investments focused on electrolyzer development, certification and testing (Erfurt) and implementation of the manufacturing hub in Brazil.</p> <p>Inauguration of the Erfurt gigafactory and start of production. Implementation of the gigafactory in Brazil.</p> <p>Global supplier for the P2X chain, integrating engineering, automation, operation and asset life cycle.</p>
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GUOFUHEE

<p> Location</p> <p> Main Products/Solutions</p> <p> Category</p> <p> Installed Capacity/Service</p> <p> TRL/Maturity</p> <p> Certifications</p> <p> Projects/References</p> <p> Differentiators</p>	<p>Brazil (initial focus on the Northeast): Bahia, Ceará, Rio Grande do Norte, Maranhão and Pernambuco.</p> <p>Alkaline electrolysis (AEL) systems at various scales + BoP. Modular solutions for pilot/demonstration. Liquefaction and infrastructure for LH₂. Storage (gaseous and vehicular) and HRS. Integration for industrial applications and Power-to-X. Engineering, tropicalization and technical training services.</p> <p>AEL electrolyzers; BoP; liquefaction/LH₂; storage; HRS; integration and services.</p> <p>Assembly of the 1st complete 1 MW alkaline electrolysis system in Brazil planned for 2026. Local assembly plan of up to 3 GW/year (3 units of ~1 GW/year).</p> <p>Technologies with industrial maturity; in Brazil, focus on local adaptation, certification and integration.</p> <p>ASME; IEC; CE; INMETRO (when applicable); ISO; ABNT.</p> <p>Structuring of demonstration projects and regional hubs in Brazil. Opportunities in Latin America (incl. Chile).</p> <p>Integrated solutions along the chain (production to supply). Strategy for localization and nationalization of technology in Brazil. Coverage from pilot scale to industrial ventures.</p>	<p> Scalability</p> <p> Partnerships</p> <p> Investment/CAPEX</p> <p> Jobs</p> <p> Project Status</p> <p> Milestones Achieved</p> <p> Other Relevant Data</p>	<p>Progressive expansion of local assembly and development of national suppliers. Replication of industrial units in line with demand.</p> <p>Interest in technological, industrial, commercial and institutional partnerships (universities, research centers, SENAI, development agencies) and with project developers.</p> <p>Investment (CAPEX): BRL 1.7 billion.</p> <p>Potential (full operation, 3 GW/year): 400–700 direct jobs and 900–1,500 indirect jobs.</p> <p>Structuring and tropicalization in progress. 1 MW demonstration assembly planned for 2026.</p> <p>Structuring of the subsidiary in Brazil. Tropicalization/nationalization plan. Project approval under NIB/FINEP. Preparation of the 1st 1 MW AEL system for validation/certification.</p> <p>Operations aligned with the energy transition and strengthening of the national technology base (industrialization and workforce training).</p>
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Hitachi Energy

 Location	Brazil: factories in Guarulhos (SP) and Blumenau (SC). 70 years of presence; ~1,800 employees.	 Differentiators	Life cycle partner (plan/build/operate & maintain), combining hardware, software, analytics and services. Consulting with derisking studies (LCOH, congestion, grid access).
 Main Products/Solutions	Grid-to-stack solutions for H ₂ V plants (grid connection, substations, transformers, switchgear and automation). Battery energy storage systems (BESS). Techno-economic consulting services and electrical studies. Digital Twin. Hydrogen Power Generator (generation from H ₂).	 Scalability	Standardized and modular solutions, with digital support throughout the life cycle.
 Category	Electrical infrastructure, automation and consulting for H ₂ V projects.	 Jobs	~1,800 employees in Brazil.
 Installed Capacity/Service	2 factories in Brazil and local installed base. Power Consulting structure in Brazil (São Paulo).	 Milestones Achieved	70 years of presence in Brazil. Operation of 2 factories (Guarulhos and Blumenau).
 Projects/References	Largest installed base of transformers and high-voltage equipment in Brazil (according to company materials). Global track record in renewables integration and electrical infrastructure.	 Other Relevant Data	Multi-sector operations (utilities, renewables, industry, transportation and data centers) with digital solutions and services.
















Stolthaven Santos

 Location	Pecém (CE): Multi-Client Green Ammonia Storage and Export Terminal at the Green Hydrogen Hub.	 Differentiators	Scalable, financeable and multi-client facility (uncommon model globally). Economies of scale to enhance the competitiveness of hub producers' projects.
 Main Products/Solutions	Green ammonia transport from the ZPE/Green Hydrogen Hub. Terminal storage. Loading for export.	 Scalability	Phased development, with capacity adjusted to the needs and production of producers installed at the hub.
 Category	Terminal/logistics for green ammonia storage and export.	 Commercial Model	Capacity made available to producers through a "Terminal Service Agreement" (TSA).
 Installed Capacity/Service	Planned capacity: up to 2.5 million tonnes/year.	 Project Status	Conceptual engineering completed. Basic engineering ready to begin.
 TRL/Maturity	TRL: 9.	 Milestones Achieved	Completion of conceptual engineering. Preparation for the start of basic engineering.
 Certifications	Participation in the green ammonia certification conducted by each producer installed at the hub.	 Other Relevant Data	Multi-client operation aimed at serving producers installed at the Green Hydrogen Hub of Pecém.
 Projects/References	50+ years of experience. ~5 million m ³ of capacity across 14 global terminals (incl. joint ventures). Winner of the CIPP RfP for construction and operation of the terminal in Pecém.		



 Location	Brazil: thyssenkrupp Uhde Brasil (São Paulo, SP). thyssenkrupp nucera: global presence (10 locations).	 Differentiators	GW-scale supply chain with focus on safety/bankability. Standardization and modularization (20 MW modules) to reduce complexity and risks. Services and digitalization for optimization and maintenance.
 Main Products/Solutions	Alkaline electrolyzers (AWE) scalum® in 20 MW modules (nucera). Life cycle services and digital solutions (nucera). Technology, licenses and EPx/EPC for ammonia, methanol and e-fuels (Uhde).	 Scalability	Interconnectable 20 MW modules scalable to GW plants. Automation and serial production roadmap for capacity increase and lead time reduction.
 Category	Electrolyzers (AWE); licensing and EPC/EPx; services and digitalization.	 Partnerships	Strategic partnership with Fraunhofer IKTS for SOEC industrialization and global network of partners/suppliers.
 Installed Capacity/Service	Nucera: >10 GW installed capacity; 3 GW+ contracted capacity. >1.5 GW/year manufacturing capacity (current).	 Jobs	Nucera: 1,000+ employees globally.
 TRL/Maturity	Industrial-scale technologies with track record: 600+ electrochemical projects (nucera) and installed base of >3,000 chemical/process plants (Uhde).	 Milestones Achieved	Thyssenkrupp nucera listed on the Frankfurt Stock Exchange (2023). Portfolio expansion with SOEC under development (pilot planned in the EU).
 Certifications	scalum®: design certified by TÜV Rheinland (ISO 22734:2019, sec. 4).	 Other Relevant Data	Integrated operations from feedstock to product (process chains), offering engineering, execution and services.
 Projects/References	H ₂ milestones: NEOM (>2 GW), Holland Hydrogen I (200 MW) and Stegra Boden (>700 MW) (examples). Integrated chain portfolio and services/digital support.		



 Location	Brazil: MG (Barreiro/BH, Jeceaba, Florestal, mining and administration in BH); SP (VTI); RJ (VTS); ES (anticorrosive coating unit).	 Scalability	Expansion through addition of modules/strings; standardized and replicable architecture.
 Main Products/Solutions	Delphy: vertical underground compressed H ₂ storage (1–100 t; up to 500 bar). Line pipe for H ₂ transport (onshore/offshore). Tubes for H ₂ cylinders (high pressure) for stations and distributed storage.	 Partnerships	MoUs with H2V and NextChem Tech. MoU with Baker Hughes (2026) for compressor integration with Delphy.
 Category	H ₂ storage (Delphy) and tubular solutions (line pipe and cylinders).	 Investment/CAPEX	Global commercialization of Delphy initiated in 2025 (after DNV qualification).
 Installed Capacity/Service	Integrated industrial park in Brazil (seamless tubes, premium connections, heat treatment, inspection and coating).	 Jobs	~13,000 employees globally; ~6,500 in Brazil.
 TRL/Maturity	Delphy: TRL 9.	 Project Status	Delphy in global commercialization phase; projects under discussion.
 Certifications	DNV – Recommended Practice A203 (technical qualification).	 Milestones Achieved	Delphy launched in 2022. Demonstrator inaugurated in Dec/2023. DNV technical qualification obtained in Jun/2025. Start of global commercialization in 2025.
 Projects/References	Delphy demonstrator in operation in France since Dec/2023. Around 50 projects under discussion globally (as reported).	 Other Relevant Data	Delphy positions itself as an enabler of hubs and projects, with safe and scalable storage and production-storage-offtake integration.
 Differentiators	DNV-qualified safety. Smaller footprint: up to 30x less area and ~50% smaller safety perimeter vs surface solutions. Modular and scalable (1–100 t) with high density (up to 500 bar). Buffer for intermittency and energy optimization (peak shaving). Local content and support in Brazil.		

Information provided by member companies (June/2026)

