

Project Overview

2023-2026

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Country	Keyword	Project	Outcome	Partner	Link
Argentina	Green ammonia	Gaicho project: series of studies on the feasibility of producing green ammonia in off-grid industrial plants in southern Argentina	Project is under implementation.	RP Global Austria GmbH	Project brief
Argentina	Biogenic CO ₂ from bioethanol production for e-methanol	Project Villa María New Energy, Córdoba: Feasibility of the use of biogenic CO ₂ from fermentation and combustion processes in bioethanol production to manufacture e-methanol using green hydrogen.	Project is under implementation.	eab New Energy GmbH, SEG INGENIERÍA S.A., ACA Bio	
Brazil and Colombia	Green Hydrogen Certification and Digital Solutions	Analysis of green hydrogen certification requirements to enable export market access	Expert workshops are carried out with relevant stakeholders (certification schemes, certification bodies, digital sustainability solutions specialists, etc.). The target groups are mainly hydrogen/PtX developers but also national regulatory bodies. By understanding certification requirements and identifying tools and solutions to implement these requirements into a companies' software architecture, access to premium export markets can be enabled.	SAP SE	Results

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Brazil	Training, safety standards in hydrogen clusters and harbours	Training programme to improve safety in the hydrogen cluster in the Pecém industrial and port complex	Project is under implementation.	TÜV Rheinland Akademie, SENAI Ceará	Project brief
Brazil	Green methanol from green hydrogen & biogas from pig manure	Sustainable production of hydrogen derivatives obtained from biogas (from pig manure) and green hydrogen in Paraná	The production of 275,000 t/a of green methanol as a mix (e-methanol/biogenic methanol) is currently still cheaper than pure e-methanol production. A first biogas plant is being built.	Mele Group, - Kooperativen Coopersan and Ambicoop	Results
Brazil	Oxyfuel welding with green hydrogen	The innovative project will demonstrate the use of green hydrogen for thermal cutting processes (oxyfuel technology) in the metalworking industry and establish a corresponding training programme.	Project is under implementation.	Messer Cutting Systems GmbH	Project brief
Brazil	Biogenic CO ₂ and GH ₂ to PtL and SAF	Converting biogenic CO ₂ and green hydrogen into e-methanol and SAF, assessing feasibility and advancing sustainable fuel production.	Project is under implementation.	Siemens, Cocal	Project brief
Brazil	Defossilisation of painting processes in the automotive industry.	Introduction of a modular painting system in which LPG and diesel used in the drying process are replaced by green hydrogen. Project is under implementation	Project is under implementation	Tünkers Maschinenbau GmbH	
Brazil	PtL Production, CO ₂ extraction from sea water, decarbonised freight rail	A green hydrogen and PtX value chain to boost Brazil as a hydrogen hub and Deutsche Bahn's net-zero fleet by 2040. The project will assess power, water, and carbon options at Morro Pintado (incl. CO ₂ from seawater), the techno-	Project is under implementation.	Deutsche Bahn, thyssenkrupp Uhde, Green Investors, Brazil Green Energy	

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		economics of PtX production, and infrastructure/logistics for export to Europe.			
Brazil and Chile	Integrated plant for the production of green hydrogen and energy/oxygen supply for industrial processes	Generation and use of green hydrogen in various industries in Chile and Brazil using a modular 230 kW H ₂ plant. The system provides integrated hydrogen, energy, and oxygen supply for industrial processes.	Project is under implementation	Wilo SE	Project brief
Chile	Seawater desalination / brine processing	Brine to Value – extraction of valuable salts and minerals from brines resulting from seawater desalination processes in hydrogen production	Project is under implementation.	K-UTEC AG Salt Technologies	Project brief
Chile	Carbon-based Power-to-Liquid (PtL)	Front-End Engineering Design (FEED) of Power-to-Liquid (PtL) plants in Chile; study on site criteria for PtL plants	For the production of 50,000 t PtL per year, 10 sites in Chile were characterised and prioritised for further project development of industrial PtL plants.	INERATEC GmbH	Results
Chile	Green ammonia	Design of a green hydrogen / ammonia plant pool in Antofagasta in northern Chile	Ammonia production (640,000 tNH ₃ /a) in plant pools (e.g. Mejillones industrial park) is possible at competitive production prices.	Soventix Chile Spa, SI Solar Investments GmbH, Pabettin GmbH	Project brief
Chile	Green ammonia	Frontera Project: Industrial production of green ammonia in the province of Tierra del Fuego – development of the plant design taking into account optimised logistics and infrastructure planning, circular economy, and carbon footprint.	Project is under implementation	ANGH (Acciona Group & Nordex Group)	Project brief

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Colombia	Green methanol	AkuaippaHy project: production of e-methanol in the region of La Guajira from green H2 and sustainable carbon sources for export to Europe and domestic use	Project is under implementation.	Viridi RE GmbH	Project brief
Colombia and Uruguay	Local community strategies	Strategies for the involvement of local communities in industrial H ₂ /PtX projects, drawing on an e-methanol project in Uruguay and an ammonia project in La Guajira, Colombia	Project is under implementation.	Enertrag SE, Colibri Energy	Project brief
Egypt and Morocco	Liquid Organic Hydrogen Carriers	Assessing the production, storage and shipment of green Liquid Organic Hydrogen Carriers (LOHC) from Morocco and Egypt to ports in Europe.	Project is under implementation	Hydrognious LOHC Technologies GmbH	Project brief
India	Green methanol	Pre-feasibility study of projects for green methanol production in India for export to Europe	Project is under implementation.	3E + Renew e-Fuels Private	Project brief
India	Green ammonia	Supply chain for green ammonia from India: analysing production and international trade	For the production of 600,000 tonnes of NH ₃ /a and export to Germany, an initial technical and economic analysis is available for 5 regions, which allows project developers to estimate the competitiveness of export projects	RWE Supply & Trading GmbH	Results
India	Index and trading platform for green hydrogen from India	Market research and development of an action plan for an index and trading platform for green hydrogen in India	Project is under implementation.	European Energy Exchange (EEX) AG, Indian Gas Exchange Ltd. (IGX)	Project brief

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India	Market entry of electrolyser technology	Supporting market entry of German electrolyser technology in India by developing market strategies, analysing regulatory frameworks, assessing market potential, and identifying relevant local networks and partners.	Project is under implementation.	Thyssenkrupp nucera	Project brief
Indonesia	Hydrogen-powered ferries	Feasibility study on ferries powered by hydrogen and batteries for inter-island transport. The study aims to guide future maritime pilot projects.	Project is under implementation.	Neuman & Esser, HDF Energy,	Project brief
Mexico	Off-grid ammonia production	Marengo project: pre-feasibility study and strategies for green ammonia production in off-grid annexes on the east coast of Mexico based on the Marengo-I project in Campeche.	The feasibility of off-grid ammonia production (205,000 tNH3/a) on the east coast of Mexico was demonstrated	Hy2Gen AG Mexión Corporation SRL	Project brief Project result Results (Spanish)
Mexico	H2 training courses, industrial application, decentralised energy supply	From theory to practice: the use of green hydrogen solutions in industry and decentralised energy supply in Mexico	Business cases on H2 in industry and decentralised energy supply were presented to technicians and decision-makers from industry and their expertise was expanded through training	Siemens Energy S. de R.L.	
Mexico	Large-scale hydrogen storage in salt caverns	Ten Achiwa X – feasibility and roadmap for setting up an industrial hydrogen cluster with large-volume hydrogen storage in salt caverns	Project is under implementation.	Linde GmbH, Geostock S.A.S. Cydsa	Project brief
Morocco	e-Fuels	Waste2Fuel Morocco – Advancing the Circular Economy: Production of e-fuels	Project is under implementation.	Synhelion GmbH	

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		using biogenic waste and renewable energy			
Namibia	Service provider pool for H2/PtX projects	Establishment of a local pool of service providers, e.g. equipment suppliers and artisans for H2/PtX projects active in Namibia.	Project is under implementation.	Enertrag AG, Hyphen Hydrogen Energy (Pty) Ltd	
South Africa	PtX, grid and transport constraints	Taaibosch Puts Green Industrial Cluster – overcoming grid and transport constraints for PtX project development in the Northern Cape	Project is under implementation.	Enertrag	Project brief
South Africa	Sewage sludge as feedstock for green methanol	Development of replicable utilisation concepts and business models for green methanol using sewage sludge as a carbon source	Project is under implementation.	FEV, GeFP (Green eFuels Producers)	Project brief
South Africa	Green hydrogen/ammonia production in decommissioned mines	Mine2Ammonia: Assessing the feasibility of green ammonia production at decommissioned or rehabilitating mines, leveraging existing infrastructure, groundwater management, and land	Project is under implementation.	d-fine GmbH, Enicron PTY Ltd, Frontier Economics Ltd	
Southeast Asia (Thailand)	Digitisation	Digital integration of hydrogen technologies for efficient and scalable projects in Southeast Asia	Project is under implementation.	Enapter GmbH	Project brief
Türkiye	H2 utilisation in the ceramics Industry	Demonstration of an H2 value chain in the ceramics industry in Turkey	The switch to green H2 in the ceramics industry is currently only feasible for premium products or with further financial incentives	Burgbad AG Eczacıbaşı Holding	Project brief

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Thailand	Hydrogen, decentralised energy supply in off-grid areas	Feasibility study on the use of green hydrogen for the sustainable energy supply of hotels, resorts and islands in off-grid areas		EGS-Plan GmbH	Project brief Final Report
Thailand	Green hydrogen & derivatives, large scale PtX production blueprint	The project will explore the production of green hydrogen, e-methanol, e-ammonia, urea, and SAF alongside existing PTT infrastructure in Southern Thailand, delivering a blueprint for large-scale production and commercialisation.	Project is under implementation.	Thyssenkrupp Uhde, PTT	Project brief
Thailand	Replacing gray with green hydrogen in steel production	Analysing the use of green hydrogen in annealing and heat-treatment processes to decarbonise steel production in Thailand.	Project is under implementation.	Neuman&Esser, Sahaviriya Steel Industries	Project brief
Thailand	Knowledge transfer, training, capacity building, modular H2 systems	Development of Chiang Mai into a knowledge centre for green hydrogen	A training center has been equipped with hardware. Training programmes are carried out in Chiang Mai.	Enapter GmbH; Chiang Mai Universität	Project brief
Ukraine	Green hydrogen, pipeline grid feed-in	Green H2 Uzhgorod: feasibility study for the production of green H2 in Western Ukraine & feeding into the Central European H2 pipeline network	Project is under implementation.	N1 Capital Limited	Project brief

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Vietnam	Green Hydrogen Technology and Business Hub, Network	Establishment of a “Green Hydrogen Technology and Business Hub” at the Vietnamese-German University (VGU) as a central platform for technology transfer, business model development, capacity building, and networking.	Project is under implementation	Enertrag, Bosch Vietnam, Indefol Solar, Messer Vietnam, Siemens Vietnam, TÜV Süd Vietnam, Neuman&Esser, VGU	
Vietnam	Green Hydrogen Technology and Business Hub, Network	Feasibility study on green hydrogen production at PV Gas as the basis for the first GH2 plant and the green corporate strategy.	Project is under implementation	Neuman&Esser, PV Gas	Project brief
Global	Ammonia-based green fertiliser, carbon credits NH3, UNFCCC Art. 6.4 Paris Agreement	Development of a methodology for the carbon market under the UNFCCC Paris Agreement for climate-friendly fertiliser production based on renewable ammonia	Project is under implementation.	Perspectives Climate Research gGmbH	Project brief
Global	Certified e-learning module for developers and financiers (hydrogen projects)		The certified training programme is offered on the market. 200 project developers and financiers from H2UProjectcountries have already completed the programme.	RENAC The Renewables Academy	Website Project brief

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