

Global Green Ammonia Projects

We've compiled data on green ammonia projects worldwide. In this document, you'll find key information about each project. We update the data regularly to help you stay informed about the latest trends in the global energy transition. Let's work together toward Creating a Sustainable, Carbon-Free Life.

Oceania

Nation	Location	Electricity Source	Capacity	Use
Australia	Port Lincoln	Wind, solar	50 tons/day	Green Ammonia for The Local Agriculture and Aquaculture Sector.
	Pilbara	18 MW of solar PV and battery storage	850,000 tons/year	Export
	Murchison	Total wind and solar capacity: ~6 GW	2 million tons/year	Export
	Murchison	6 GW onshore wind and solar green energy capacity	green energy capacity 2 million tons	-
	Canarvon	8 GW	30 tons/day	Export
	Western Australia	30 MW alkaline electrolyzer	20 million t NH ₃ -e	Domestic Use and Export to South Korea and Other International Markets.
	Moranbah	240 MW solar power plant	45,000 tons/year	-
	Gladstone	Renewable energy installed capacity expected to reach 8 GW	Over 1.7 million tons/year	Export
	Moura	30 MW alkaline electrolyzer	20,000-ton ammonia liquefaction plant	Industrial Ammonia Production
	Port Adelaide	-	2 million tons/year	-
	-	Renewable energy installed capacity expected to reach 8 GW	300,000 tons	Export
	Gladstone, Queensland	3 GW	1 million tons/year	Export
-	900 MW solar integrated with existing hydro and port facilities	250,000 tons	Export	

Europe

Nation	Location	Electricity Source	Capacity	Use
Spain	Palos de la Frontera	1 GW electrolytic capacity	-	Fuel, Export
	Puertollano	100 MW solar PV renewable energy	-	-
	San Roque Energy Park in Cadiz	1 GW green hydrogen plant	750,000 t	Export
	Southern Europe	500 MW renewable energy	100,000 t	-
	Aragon	1.7 GW wind and solar PV	200,000 tons/year	Sustainable Fertilizers
	Galicia	Phase 1: 200 MW Phase 2: +400 MW Phase 3: +400 MW	725,000 t	Offshore Production and Export
	-	9 GW wind and solar	Over 1 million t expected by 2030	-
Denmark	Western Jutland	50 MW solar panels	5,000 t	-
Norway	Berlevåg	Phase 1: 100 MW electrolyzer Phase 2: additional 100 MW, total 200 MW	Phase 1: ~100,000 t/year; Phase 2: 200,000 t/year	-
	Porsgrunn	-	500,000 t/year	Shipping, Agriculture, and Industrial Applications
	Arendal in southern Norway	-	150,000 t/year	-
	Sauda on the southwest coast of Norway	240 MW electrolyzer	600 t (or over 200,000 t/year)	-
Netherlands	Sluiskil	100 MW electrolyzer	75,000 t/year	-
Germany	Northern Germany	100 MW renewable electricity	300 t/day	Green Marine Fuel or Fertilizer
England	Orkney, Scotland	Two 4.2 MW wind turbines	11 t/day	-
	Harwell, UK	-	30 kg/day	Generate Electricity

South America

Nation	Location	Electricity Source	Capacity	Use
Brazil	Espirito Santo	-	Up to 4,000 tons/day	Fuel and Export
	Camaçari, Bahia state	Three 200 MW alkaline electrolyzers	Phase 1: 60,000 t/year; Phase 2: 120,000 t/year.	Decarbonize Their Production Chains
	Cubatang, Sao Paulo State	-	-	-
	The island of Piaui	-	-	-
	Ceará	Up to 2.4 GW	22,000 t/year	-
	Rio Grande do Sul	-	About 250,000 t/year	Supports the Transition to Zero-Carbon
	Puerto Asu	-	900,000 t/year	Export
Chile	Chile	-	850,000 t/year	-
	Antofagasta	26 MW electrolyzer	18,000 t/year	-
	The Magellan Region	1.7 GW onshore wind farm	1,000,000 t/year	Export
Colombia	Colombia	-	0.2 t/year	-

North America

Nation	Location	Electricity Source	Capacity	Use
USA	Louisiana	-	20,000 t/year	-
	Iowa	-	240 t/day	Reduce Ammonia Import
	Morris	1.65 MW wind turbine	Up to 25 t/year	For Cropland Use
	California	-	2,000 t/year	-
	Oklahoma	-	14 t/year	-
	Texas Logistics Center	-	1.2 million t/year	-
Canada	Quebec	200 MW hydroelectric facility	500 t/day	Export
	Cape Tupper, Nova Scotia	2 GW hydrogen electrolyzers	2 million t/year	-

Middle East

Nation	Location	Electricity Source	Capacity	Use
Abu Dhabi, UAE	Abu Dhabi	800 MW solar power plant	200,000 t/year	-
Saudi Arabia	NEOM	1.6 GW wind + 2.2 GW solar (4 GW total renewable power)	1.2 million t/year	-
	Saudi Arabia	-	0.2 t/year	-
Kenya	Lake Naivasha	-	-	Renewable Fertilizer
Egypt	Egypt	-	-	Export

Africa

Nation	Location	Electricity Source	Capacity	Use
Africa	Mauritania	8 GW wind + 12 GW solar	10 million t/year	-
Morocco	Rabat	-	183,000 t/year	Renewable Fertilizer
	Tantan	3 GW solar + 3 GW wind (Phase 1 & 2)	2-2.5 million t/year	-
Namibia	Namibia	-	-	-

Asia

Nation	Location	Electricity Source	Capacity	Use
Japan	Ogata Village	-	-	-
	Koriyama	-	-	-
	Kawasaki	-	-	-
Oman	Al Wusta	25 GW Oman Green Energy Project	-	-
	Duqm	Phase 1: 1.3 GW renewable; Phase 2: >2.7 GW.	Phase 1: ~330,000 t/year; Phase 2: >650,000 t/year.	-
	Dugum Special Economic Zone	3 GWp solar + 0.5 GWp wind	~900,000 t/year	-
	Amandukum	-	2,200 t/day	-
Jordan	Aqaba Special Economic Zone (ASEZ)	530 MW solar PV	100,000-200,000 t/year	-
Indonesia	Garuda Hydrogen Hijau (GH2)	600 MW wind and solar	150,000 t/year	-
India	India	-	1.5 t/year	-
	Orissa	-	Up to 1.3 million t/year	-
	Odisha	-	1 million t/year	-
China	Inner Mongolia	150 MW wind power	39 kt/year	-
	Inner Mongolia	200 MW wind + 200 MW PV	10 kt/year	-
	Inner Mongolia	800 MW PV + 300 MW PV	30 kt/year	-
	Inner Mongolia	4,550 MW wind + 1,020 MW PV	-	-
	Inner Mongolia	4,759 billion kWh	40 kt/year	-
	Inner Mongolia	-	30 kt/year	-
	Inner Mongolia	-	30 kt/year	-
	Jilin (Province)	700 MW wind + 100 MW PV	18 kt/year	-
	Sichuan (Province)	100,000 t renewable energy project	-	-
	Inner Mongolia	400 MW wind + 100 MW PV	150 kt/year	-
	Inner Mongolia	210 MW wind + 50 MW PV	57 kt/year	-
	Inner Mongolia	350 MW wind + 150 MW PV	-	-
	Alxa	400 MW wind + 200 MW PV	-	-
	-	-	100 kt/year	-
	-	-	1,200 kt/year	-
	Chifeng City Linxi county industrial park	-	150 kt/year	-
	Yumen East building materials Chemical Industrial Park	-	39 kt/year	-
	Songyuan City	800 MW wind + 100 MW PV	200 kt/year	-
Daan, Jilin Province	700 MW wind + 100 MW PV	180 kt/year	-	
Chifeng	290 MW wind + 200 MW PV	18,600 t H ₂ /year	Used Entirely for Ammonia Synthesis	
Bahraini dinar	700,000 MW	100 kt/year	-	

