

The projects of ABIHV member companies

ABIHV brings together companies operating across different segments of the low-carbon hydrogen value chain in Brazil, connecting industry, innovation, infrastructure, and the energy transition. Its membership portfolio already combines operational plants, such as the initiatives led by White Martins in Jacareí and Neoenergia in Brasília, with projects under development focused on the production of green hydrogen, green ammonia, e-methanol, and other strategic derivatives. Together, these initiatives demonstrate that the sector is advancing both through the implementation of concrete solutions and the development of new investments capable of positioning Brazil as a global benchmark in clean energy, sustainable industrialization, and decarbonization. Explore the plants already in operation and the next major projects that will shape the future, including those expected to reach Final Investment Decision (FID) by 2030 and their respective Commercial Operation Dates (COD).

Operational plants: The turning Point for green hydrogen in Brazil

Through their recent inaugurations, White Martins, part of the Linde Group, and Neoenergia have taken the first steps toward integrating green hydrogen into Brazil's productive value chains.



- Location:** Jacareí, São Paulo
- Jobs (Construction):** 450
- Product:** Green Hydrogen
- Electrolysis Capacity:** 5 MW
- Annual Production:** 800 tonnes

- Development timeline: 20 months (including civil works, assembly, and commissioning)**
20% of production already contracted
- COD:** December 2025



- Location:** Brasília, Distrito Federal
- Investment:** More than BRL 30 million
- Product:** Green Hydrogen
- Project selected under the Research, Development and Innovation (R&D&I) Program, regulated by the Brazilian National Electric Energy Agency (ANEEL)**

- Home to Brazil's first hydrogen-powered vehicle refueling station. Features two pressure levels to serve both light-duty and heavy-duty vehicles**
- COD:** November 2025

Projects for the coming years: FID until 2030

The planned investments for these projects exceed BRL 115 billion¹, with a combined electrolysis capacity of 10.4 GW. Several projects have also been selected through different public support and incentive mechanisms.

The FID is a crucial milestone in the development of a project, marking the transition from the planning phase to implementation. It is at this stage that financial resources are allocated for equipment purchases, the signing of engineering contracts, among other commitments.



- Location:** Macau, Pendências and Guamaré, Rio Grande do Norte
- Jobs (Construction):** 4,640
- Investment:** USD 2.06 billion²

- Product:** Green Ammonia
- Electrolysis capacity:** 500 MW
- Annual production:** 430,000 tonnes
- COD:** 2032



- Location:** Uberaba, Minas Gerais
- Jobs (Construction):** 2,000
- Investment:** USD 1.12 billion
- Product:** Green fertilizers
- Electrolysis capacity:** 300 MW
- Annual production:** 530,000 tonnes

- The project is listed on Brazil Climate and Ecological Transformation Investment Platform (BIP) and was selected by the ITA**
- Milestones achieved:** 22% of offtake volume under binding agreements; >30% in advanced negotiations; Start of FEED³ in December 2025



- Location:** Complexo do Pecém, Ceará
- Jobs (Construction):** 4,600
- Investment:** USD 2.28 billion
- Product:** Green Ammonia
- Electrolysis capacity:** 1.2 GW

- Annual production:** 900,000 tonnes
- Under approval within the New PAC program**
- The project is listed on the Brazil Climate and Ecological Transformation Investment Platform (BIP)**
- Investment in renewable energy:** USD 2.44 billion



- Location:** Bahia
- Jobs (Construction):** 1,000
- Product:** e-Methanol

- Electrolysis capacity:** 100 MW
- Annual production:** 80,000 tonnes
- Current phase:** Engineering and electrical studies in progress



- Location:** Complexo do Pecém, Ceará
- Jobs (Construction):** 650
- Product:** Green Ammonia
- Electrolysis capacity:** 200 MW

- Annual production:** 170,000 tonnes
- Current phase:** Site reservation at the Port of Pecém, with engineering, electrical, and environmental studies in progress



- Location:** Porto de Suape, Pernambuco
- Jobs (Construction):** 300
- Investment:** USD 0.38 billion
- Product:** e-Methanol
- Electrolysis capacity:** 150 MW

- Annual production:** 100,000 tonnes
- The project was selected by the Industrial Transition Accelerator (ITA)**
- Milestones achieved:** preliminary environmental license and water abstraction permit obtained



- Location:** Complexo do Pecém, Ceará
- Jobs (Construction):** 8,920
- Investment:** USD 3.37 billion
- Product:** Green Hydrogen
- Electrolysis capacity:** 1.2 GW
- Annual production:** 170,000 tonnes

- Pending approval under the New PAC program**
- The project is listed on Brazil Climate and Ecological Transformation Investment Platform (BIP) and was selected by the ITA**
- COD:** 2nd half of 2029
- Milestones achieved:** feasibility studies; licensing and authorizations; fieldwork



- Location:** Complexo do Pecém, Ceará
- Jobs (Construction):** 650
- Investment:** USD 1.12 billion
- Product:** Green Ammonia

- Electrolysis capacity:** 500 MW
- Annual production:** 400,000 tonnes
- COD:** 1st phase - 2nd half of 2029



- Location:** Complexo do Pecém, Ceará
- Jobs (Construction):** 650
- Investment:** USD 1.12 billion
- Product:** Green Ammonia

- Electrolysis capacity:** 1.5 GW
- Annual production:** 1,200,000 tonnes
- COD:** 2nd Phase – 2032

Qair

- Location:** Complexo do Pecém, Ceará
- Jobs (Construction):** 5,700
- Investment:** USD 3.32 billion
- Projects:** Fraternité and Liberté
- Product:** Green Hydrogen, Ammonia, and Oxygen
- Electrolysis capacity:** 2.52 GW

- Annual production:** Liberté – 1,680,000 tonnes of Green Ammonia, 296,000 tonnes of Green Hydrogen, and 2,353,000 tonnes of Oxygen
- COD:** Fraternité – 2028
Liberté - 2033 (phased ramp-up until 2039)

Qair

- Location:** Porto de Suape, Pernambuco
- Jobs (Construction):** 5,000
- Investment:** USD 2.94 billion
- Product:** Green Hydrogen, Ammonia, and Oxygen
- Electrolysis capacity:** 2.24 GW

- Annual production:** 1,680,000 tonnes of Green Ammonia, 296,000 tonnes of Green Hydrogen and 2,353,000 tonnes of Oxygen
- COD:** 2032 (phased ramp-up until 2039)
- Project:** Suape



- Location:** Maranhão, Brazil
- Investment:** BRL 10.38 billion⁴
- Product:** HBI (Hot Briquetted Iron)
- Annual production:** 1.35 million tonnes
- COD:** 2032

- BIP and Global Gateway**
- Estimated emissions reduction of approximately 80% compared to the conventional production route**
- Milestones Achieved:** Feasibility studies and conceptual design completed
- Project name:** Hydeas

The Brazil Climate and Ecological Transformation Investment Platform (BIP) is an initiative from the Brazilian government that aims to attract international investment for energy transition and decarbonization projects. **Industrial Transition Accelerator (ITA):** A platform launched by the government of the United Arab Emirates and Bloomberg Philanthropies, focused on promoting global industrial decarbonization. **New PAC program (New Growth Acceleration Program, or Novo PAC, in Portuguese):** An investment program coordinated by the federal government that provides credit for key infrastructure projects, including those under the “energy transition and security” axis. Brazilian Development Bank (**BNDES**) and Funding Authority for Studies and Projects (**FINEP**): Responsible for some of the main funding mechanisms supporting national development.

4 - Original value reported in USD and converted using an exchange rate of BRL 5.19 per USD.

