

The projects of ABIHV member companies

ABIHV is the driving force that connects science, **industry**, and society to transform the potential of green hydrogen into a strategic reality for the energy transition and Brazil's sustainable leadership on the global stage. Comprising companies that operate across the entire green hydrogen value chain, ABIHV coordinates efforts to position Brazil as a global reference in the energy transition. Discover the projects with Final Investment Decision (FID) and Commercial Operation Dates (COD) that are set to shape this future in the coming years.

The first large-scale projects: FID in 2026

The investments planned for these projects exceed USD 10 billion¹, with a combined electrolysis capacity of 5.42 GW. In addition, some have been selected through various 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:** 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:** 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

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)

Projects for the coming years: FID in 2027–2029

Between 2027 and 2029, investments will exceed USD 10.3 billion^{1,3}, adding 5.27 GW of electrolysis capacity.

2027



- Location:** Uberaba, Minas Gerais
- Jobs (Construction):** 2,000
- Investment:** USD 1.12 billion
- Product:** Nitrogen 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 FEED² in December 2025

1 - Original amount in BRL converted at an exchange rate of BRL 1 = USD 0.19. Information provided by member companies (January 2026).

2 - FEED: Front-End Engineering Design

2027



- 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

Volta

- Location:** Complexo do Pecém, Ceará
- Jobs (Construction):** 1,400
- Investment:** USD 0.50 billion

- Product:** Green Ammonia
- Electrolysis capacity:** 280 MW
- Annual production:** 250,000 tonnes

2028



- Location:** Macau, Pendências and Guamaré, Rio Grande do Norte
- Jobs (Construction):** 4,640
- Investment:** USD 2.06 billion³

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



- 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:** 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

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

2029



- Location:** Complexo do Pecém, Ceará
- Jobs (Construction):** 5,000
- Investment:** USD 3.37 billion
- Product:** Green Ammonia

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

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.

3 - The announced investment amount includes a wind farm, a solar power plant, and a dedicated port terminal.