

# 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.

## Projects for the coming years: FID until 2030

The investments planned for these projects exceed USD 10 billion<sup>1</sup>, 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:** 2<sup>nd</sup> 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:** 1<sup>st</sup> phase - 2<sup>nd</sup> 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)



**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 FEED<sup>2</sup> in December 2025

**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

## volitalia

**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



**Location:** Macau, Pendências and Guamaré, Rio Grande do Norte  
**Jobs (Construction):** 4,640  
**Investment:** USD 2.06 billion<sup>3</sup>

**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



**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:** 2<sup>nd</sup> 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.