

Green Hydrogen Industry potential in Brazil

Green Hydrogen (H2V, in Portuguese) is a clean fuel, produced through water electrolysis – a process that separates water into its elements through the intensive use of renewable electricity, such as wind, hydro, or solar power. Brazil is in an advantageous position to lead the sector globally, with over 90% of its energy matrix coming from clean sources, experience with public decarbonization policies, and an interconnected national energy system.

The legal framework for hydrogen

Globally, several countries have already adopted or are implementing public policies to encourage lowemissions hydrogen production. In 2024, Brazil took its first step to face this international competition with the approval of the Low-Carbon Hydrogen Legal Framework, Law No. 14,948.

Definitions of the different types of hydrogen

Certification System

Regulatory competencies

Special regime for producers (Rehidro)

In addition, under Law No. 14,990, Brazil stablished the Low-Carbon Hydrogen Development Program (PHBC, in Portuguese), an incentive mechanism that will provide up to BRL 18.3 billion in credits to the hydrogen industry between 2028 and 2032, prioritizing projects with lowest greenhouse gas emissions.

Competitiveness

align green hydrogen to a price level closer to gray hydrogen

Pathways

prioritize lower carbon-emission production pathways

Home market

encourage the commercialization of green hydrogen in national territory

If Brazil meets 4% of the global demand for green hydrogen in 2050:

each **BRL 1.00** of incentive generates



- **Up to BRL 10.56** in total revenue
- Up to BRL 37.72 increase in GDP
- Up to BRL 22.00 of private investments

Announced investments for green hydrogen from renewable sources in Brazil already total BRL 188.7 billion, according to a National Industry Confederation study.

Member companies and projects by states

ArcelorMittal: ES Atlas Agro: MG

Casa dos Ventos: CE

EDF: CE

Eletrobras: CE, MG, GO, MA, PI

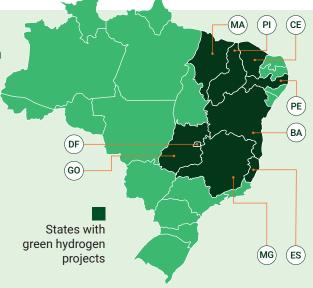
European Energy: PE

Fortescue: CE

FRV: CE

Neoenergia: BA, PE, DF

Qair: CE Solatio: PI Voltalia: CE



Projects for the coming years





Fortescue.



Location:

Pecém Complex, Ceará



Employment:

5,000 (construction)



Investment:

Product:

BRL 20 billion

green hydrogen



Final investment decision:

2025



Yearly production volume:

175,000 tons





Location:

Pecém Complex, Ceará



Employment:

4,000 (construction)



Investment:

Product:

BRL 12 billion

green ammonia



Final investment decision:

2025



Yearly production volume:

900,000 tons



EUROPEAN ENERGY



Location:

Suape, Pernambuco



Employment:

250 (construction)



Investment:

BRL 2 billion

Product:

methanol



Final investment decision:

2025



Yearly production volume:

100.000 tons

ATLAS AGRO



Location:

Uberaba, Minas Gerais



○○ Employment:

2,000 (construction)



Investment:

BRL 5 billion

nitrogen fertilizers

Product:



Final investment decision:

2025



Yearly production volume:

530,000 tons

v**e**ltalia



Location:

Employment:

Pecém Complex, Ceará





Investment:

BRL 9 billion

and ammonia

Product: green hydrogen



Final investment decision:

2025



Yearly production volume:

900,000 tons

SOLATIO



Location:

Parnaíba. Piauí



Investment:

BRL 29,3 billion



Final investment decision: 2025



Employment:

2,300 (construction)



Product:

green ammonia



Yearly production volume:

2.2 million tons