

# Biofuels

## BRAZIL'S RANKING IN THE GLOBAL BIOFUELS MARKET

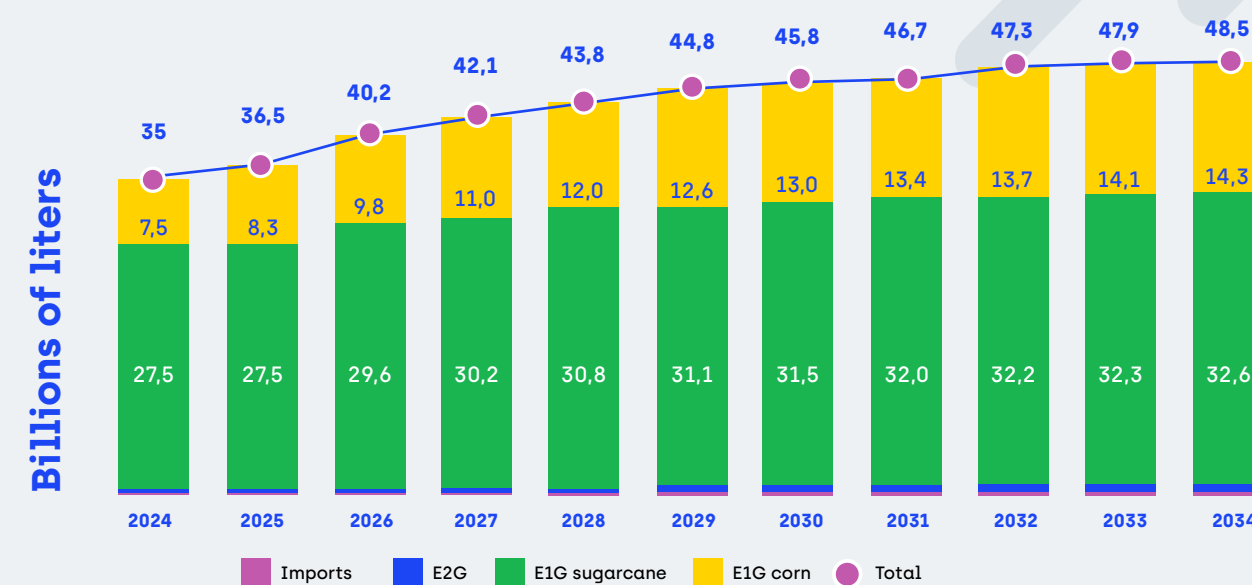
In 2023, the ranking in biofuel production, according to the Energy Institute was, respectively, USA, Brazil, Indonesia, China, Germany.

According to a survey by the International Energy Agency , Brazil is also the G20 country with the largest share of bioenergy in total energy supply, which makes it the country with the cleanest energy matrix in G20.

## EXPECTED GROWTH FOR BIOFUELS

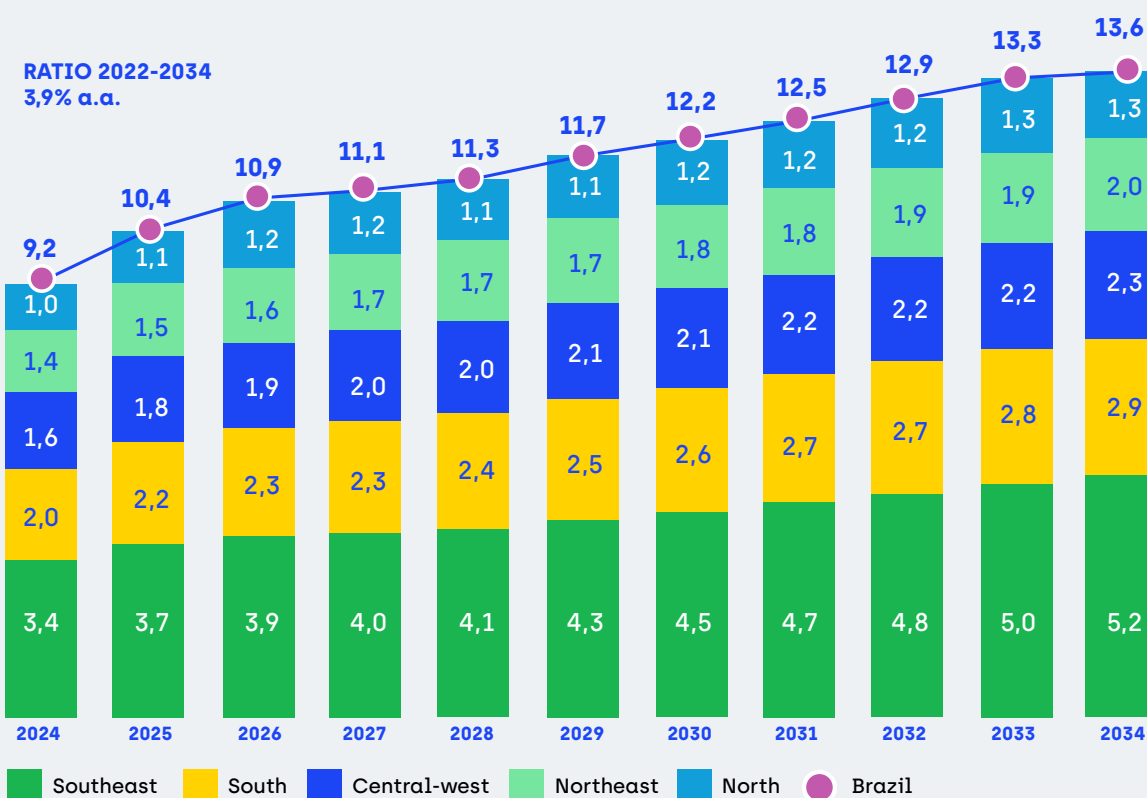
### ETHANOL

GRAPH: PROJECTION OF TOTAL ETHANOL SUPPLY. SOURCE: EPE (2024).



### BIODIESEL

GRAPH: PROJECTION OF BIODIESEL DEMAND BY REGION. SOURCE: EPE (2024).



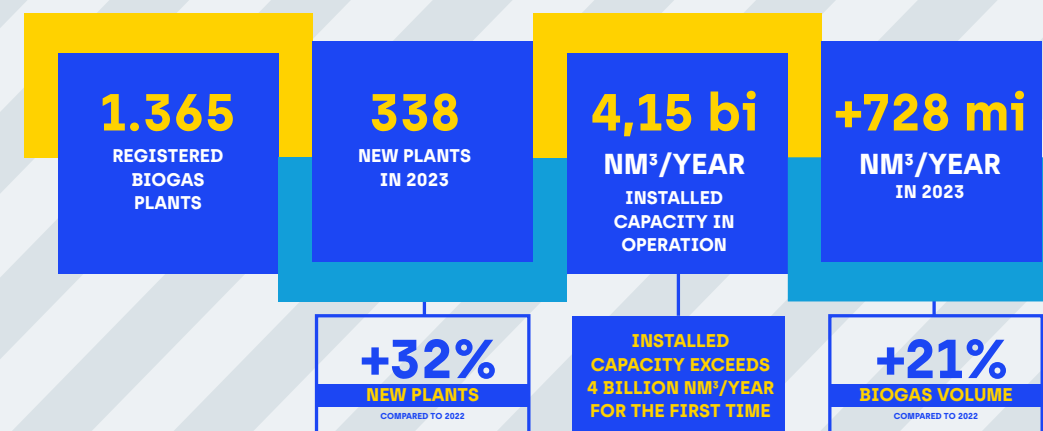
## NEW BIOFUELS

### GREEN DIESEL

The Fuel of the Future Law created the National Green Diesel Program (PNDV), with the aim of introducing the use of Green Diesel into the Brazilian energy matrix.

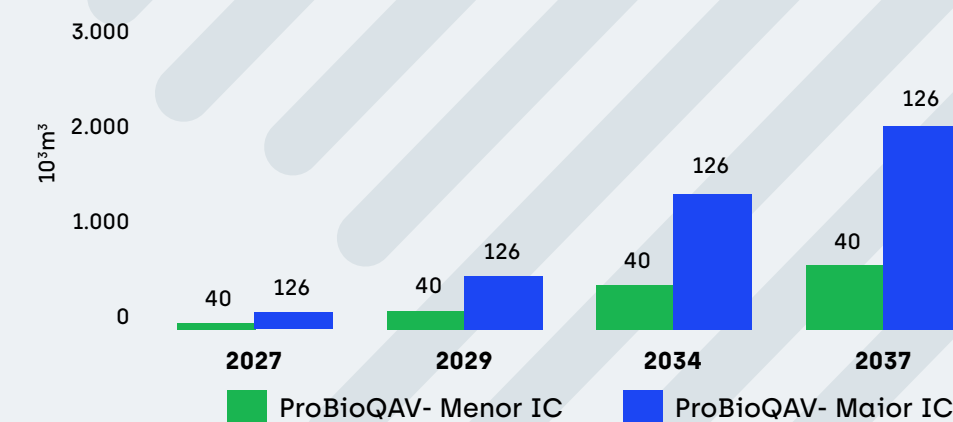
### BIOGAS

#### TOTAL NUMBER OF PLANTS IN BIOGASMAP IN 2023

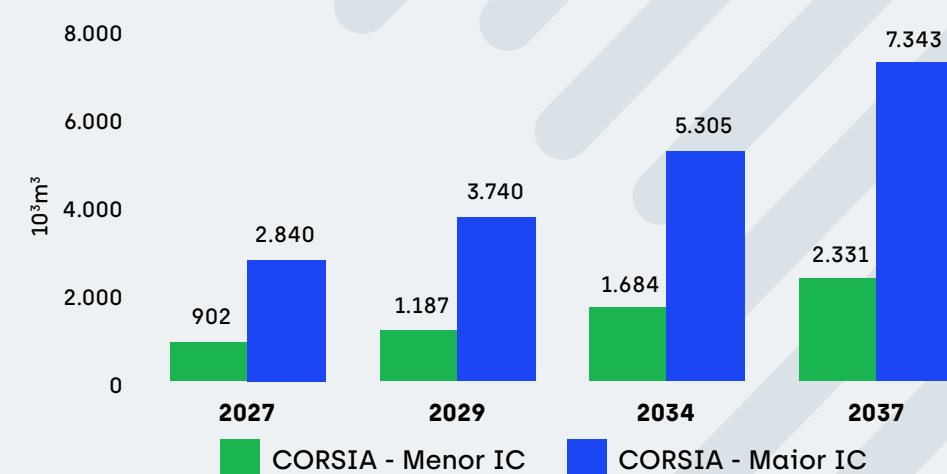


## SAF: SUSTAINABLE AVIATION FUEL

### ProBioQAV Demand



### CORSIA Demand



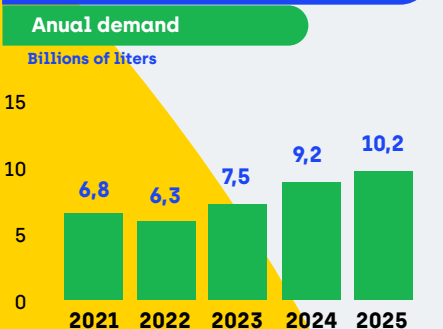
Regarding biofuels alone, the total annual demand for ethanol and biodiesel is shown in below.

GRAPH: ANNUAL DEMAND (HISTORICAL AND PROJECTED) FOR BIOFUELS IN BRAZIL. SOURCE: EPE (2024).

### Total ethanol - anhydrous-hydrated



### Biodiesel



## PUBLIC POLICIES AND INSTITUTIONS

Mandatory biofuel blending, tax differentiation and RenovaBio, which generates decarbonization credits. The Fuel of the Future includes programs for sustainable fuels and regulates carbon capture.

## FINANCING LINES OR INSTITUTIONS

The Climate Fund (BNDES) and Finep finance projects, including USD 1.2 billion for green fuels.

## SAF, E2G AND BECCS

6 projects in SAF, 5 in E2G, and 1 in BECCS have been announced.

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