

Brazilian Corn Bioethanol and Distillers Grains

The co-production of bioethanol from corn, grain-based bioethanol, and distillers grains is a key component of the **Bioeconomy**, which strives for a more sustainable and resilient future.

Brazilian Distillers Grains is produced using 100% biomass energy, reducing reliance on fossil fuels. Furthermore, the use of biomass supports rural development by generating jobs in both agriculture and energy production.

Two pillars based on the use of renewable energy:



Energy security

corn ethanol, contributing to clean energy, without the use of fossil fuels.



Food security

distillers grains contributing to a high quality animal nutrition.



The Brazilian Distillers Grains International Promotion Project is an initiative by UNEM (the Brazilian Corn Ethanol Association) in partnership with ApexBrasil (the Brazilian Trade and Investment Promotion Agency), designed to support the participation of Brazilian companies in the corn bioethanol, grain-based bioethanol, and co-products sectors in the international market. The project aims to boost exports and increase the number of exporting companies. UNEM currently represents 98% of Brazil's corn bioethanol and co-products industry.



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BRAZILIAN DISTILLERS GRAINS



From Green To Golden

Promoted by



The Brazilian role in Worldwide Food Security:

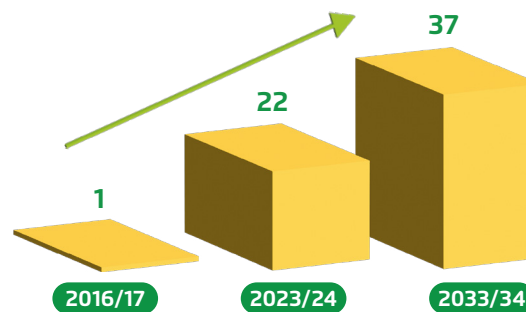
- Brazil's natural attributes and exceptional conditions: soil, climate, water that enable food, fiber and energy production for the domestic and international markets.
- Double cropping: both corn and another crop, mainly soya are produced in the same plot of land in one harvest year. In some areas of the country, even three crops in one harvest year are possible.
- Brazil has consistently enhanced both production and productivity through the use of technology and sustainable practices, embodying our commitment to 'sustainable intensification.'
- Major exporter of grains and meats.
- Brazil is a reliable supplier that exports to countries in all continents.



Why Choose Brazilian Distillers Grains?

- **State-of-the-Art Production:** Brazilian sector is founded on the best production practices, ensuring top-quality output from the start.
- **Exceptional Nutritional Value:** Our products deliver three times more nutrients than corn kernels, offering unmatched quality animal feed.
- **Proven Excellence:** Backed by results, our solutions meet the nutritional needs of various animal species, such as beef and dairy cattle, swine, poultry, fish and companion animals.
- **Higher Safety Standards:** Our products contain a lower level of mycotoxins, ensuring safer animal feed.
- **Global Collaboration:** As a dynamic new player in the market, we are poised to contribute significantly to animal nutrition worldwide.

Evolution of the Biorefineries in Brazil

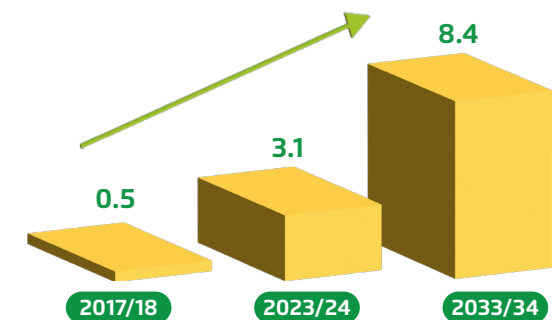


Source: UNEM

Why Choose Brazilian Distillers Grains?

- **Certified Quality and Sustainability:** Our associated companies are internationally certified for quality and sustainability, with a strong focus on decarbonization.
- **Reliable and Growing Supply:** Brazil has significantly expanded corn production and productivity, driven by the rising demand from the ethanol and distillers grains industries.
- **Sustainable Production Practices:** We are achieving production area and productivity gains without expanding into preserved biomes, focusing on enhancing the efficiency of existing agricultural land.
- **Rapid Growth Forecast:** Brazilian distillers grains production is set to grow by 174% over the next decade, with a projected compound annual growth rate (CAGR) of 11%. By the 2033/34 harvest, production is expected to exceed 8 million tons.

Projection of Brazilian Distillers Grains Production (M Tons)



Source: IMEA