05 SUSTAINABLE AVIATION FUEL (SAF) PRODUCTION PLANT IN FLORIANO, PIAUÍ, BRAZIL

01 BRIEF DESCRIPTION OF THE PROJECT

Implementation of a Sustainable Aviation Fuel (SAF) production unit in the Floriano Business Park (PI), with a capacity of up to 50 million liters/year, using the HEFA (hydrotreated vegetable oil) technological route, which is a commercially available method with CO_2 emissions up to 80% lower than fossil kerosene. The project aims to serve the national and international markets, contributing to the decarbonization of aviation and positioning Piauí as a benchmark in clean energy and industrial innovation.

02 JUSTIFICATION AND OPPORTUNITY

With the global goal of zero net carbon emissions by 2050, demand for SAF is growing rapidly. Brazil has competitive advantages in this sector: tradition in biofuels, availability of biomass and technological base. Piauí stands out for its expansion in renewable energies, green hydrogen production and biofuels, as well as offering abundant agricultural raw materials such as soy, macauba, used cooking oil and livestock waste. Floriano's strategic location, with access to the Parnaíba Waterway - which will connect the municipality to the Port of Luís Correia - strengthens its coordination for export and domestic supply, including Teresina. The Floriano Business Park will be a regulatorily stable hub for the installation of the plant, which is expected to begin operations in 2026.

03 INVESTMENT NEEDED

The estimated investment is US$60 million, including hydrotreating technology, control systems, operational safety, and international certifications (ASTM, ISCC, CORSIA).

04 EXPECTED RETURN

The project expects an annual net cash flow of over **US$ 37.5 million**, an I**RR of between 15% and 35%**, a **projected payback of between 1.6 and 4 years** and an **NPV of between US$ 60 and 104 million over 10 years**. Piauí's new legal framework, scheduled for 2025, will offer tax incentives and access to carbon credits, increasing the attractiveness of the investment.

05 SOCIAL AND ENVIRONMENTAL IMPACT

The plant will reduce up to 80,000 tons of CO_2 per year, generating around 180 direct jobs and 1,300 indirect jobs. It is aligned with several SDGs (7, 8, 9, 12 and 13), promoting sustainable development, innovation, and socio-economic inclusion in the Brazilian semi-arid region.

06 NEXT STEPS

Finalize feasibility study, structure fundraising, align regulatory frameworks, form strategic partnerships, and start executive planning for plant implementation.

CONTACTS

More information about this and other projects:
investinbrasil@apexbrasil.com.br