

Making Sustainable Alternative Fuels Viable in Brazil

GOL Biofuels Program

Case: Zona da Mata Biojetfuel Platform and Renewables

June 2018



GOL Linhas Aéreas Inteligentes

17 years of history.

The largest airline in Brazil, with more than 33 million customers transported per year

- A leader in
- Number of passengers transported (Anac)
 - Market share (2017)
 - Corporate segment (Abracorp)
 - Punctuality (Infraero)

GOL promoted the democratization of the transport in the country, and became the largest low-cost company in the industry, with the best rates in Latin America

700 daily flights to 67 destinations (Brazil, South America, the Caribbean and, soon, the United States)

Standardized fleet of 118 aircraft Boeing 737

Strategic alliances with Delta Air Lines, Air France, and KLM

Purpose is being The First for All

Continuous investment in products, services and customer service to deliver the best travel experience



GOL´ s governance is guided by the principles of transparency, equity and socioenvironmental responsibility.

Sustainability Report 2017

Sustainability

- Operational efficiency
- Sustainability Report based on the GRI (Global Report Initiative) guidelines
- Material objectives - Emissions
 - Climate change
 - GHG emissions
 - Fuels



“Only the replacement of fossil fuels by renewable sources will neutralize our emissions growth, inspite all efforts that we are applying”.

GOL Biofuels Program



GOL Biofuels Program

Main challenges:

- Strengthening the value chain
- Continuous supply
- Parity of costs

.....

The first Brazilian airline to carry out a domestic and an international commercial flight with biofuel

Since 2012, GOL develops its biofuel program, promoting and developing the biokerosene value chain.

.....



GOL Biofuels Program

Goals

- Identify, develop and integrate all stakeholders in the biokerosene value chain
- Enable production at a competitive price
- Long-term vision

GOL pillars for the investment in biokerosene

- Cost parity with fossil kerosene, into the plane
- ANP and ASTM Quality Certification
- Sustainability certification (we support RSB standards)



Zona da Mata Biojetfuel Platform and Renewables

- First region in Brazil to have a high integrated value chain for the production of green diesel and renewable kerosene for airlines and heavy road transport.
- Production of biofuels:
 - Biomass of Macauba (*Acrocomia aculeata*) - a Brazilian native palm tree with high yield for biofuel production. Planting potential: 130,000 hectares (321,000 acres)
 - Municipal solid waste, sewage treatment and decontamination of the Paranaíba River.
- Economic and social impact:
 - The inclusion of family farming and extractivism for the recovery of degraded pastureland and watersheds through macauba reforestation.
 - The inclusion of associations of recyclable waste collectors and collection of residual organic waste - an increase of employment and income for the sustainable development of the Zona da Mata



Other fronts of Socioenvironmental Responsibility

Diversification of initiatives strategy

Some examples

- Chemical Effluents Treatment Station
- Implementation of Environmental Management System (EMS)
- Member of the Working Group created to study incentives to induce the production of aviation biokerosene in the country to meet the goals of Renovabio
- Social investment, guided by our POLICY OF SOCIAL SUPPORT, based on the pillars of EDUCATION, ACCESSIBILITY, VOLUNTEERING
- Investments in accessibility and inclusion



***GOL's Way of Being and Doing* drives us to invest in an orderly and constant manner in alternatives to fossil fuel, mitigating the impact of our operations on climate change.**

We will not wait for the consequences, we are anticipating and mitigating them.

