

Sustainable Aviation Fuels

GOL Strategic Program for Decarbonized Operations



Sustainable aviation fuels

Must be certified, sustainable and affordable

Past relevant actions

- 2012/Jun First experimental flight during Rio+20
- 2013/Jun National resolution for biojetfuel (ANP 20)
- 2013/Aug Brazilian Biojetfuel Platform
- 2013/Oct First Brazilian commercial flight
- 2014/Jun Minas Gerais Biojetfuel Platform
- 2014/Jul Green World Cup: 360+ flights with biojetfuel
- Set/2014 First Brazilian international flight
- Aug/2015 Pernambuco Biojetfuel Platform

Present

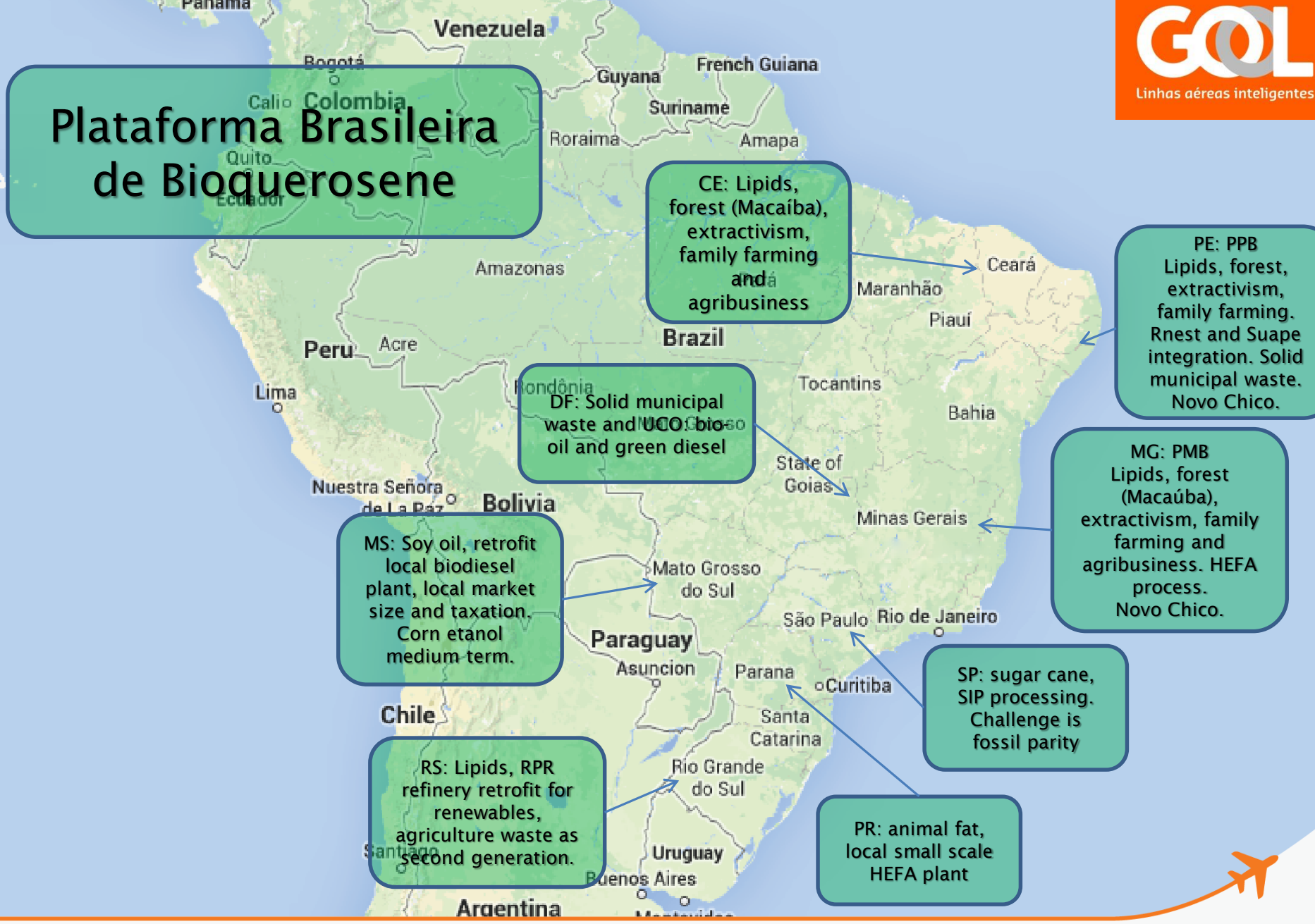
- Developing Platforms
- Supporting six initiatives
- Working towards a National Biojetfuel act with Ubrabio

Next steps

- Support the Reforestation program of Sao Francisco River Basin using Macaúba
- First continuous low carbon operation (supply)
- First one percent



Plataforma Brasileira de Bioquerosene



2010

Minimum 1,5%
fuel efficiency

1,6% Average
Brazilian industry

2020

Carbon Neutral
Growth

Estimate Corsia
impact in Brazilian
Airlines 2030:
1,5 mi ton/CO₂e

2050

-50% CO₂e

2005 baseline

Brazil NDC as an
opportunity

Expand use of
sustainable fuels
12 mi ha
reforestation
15 mi ha degraded
lands
5 mi ha forest,
agriculture, cattle
integration

- High integrated value chains to reduce footprint
- Range of distinct biomass
- Value chain sustainability certification needed
- Reforestation and use of degraded pasturelands
- Soy and Sugarcane as “first movers” or short term results
- Macaúba and native oil crops as high impact, lower carbon foot print

Objective is low carbon, renewable fuel will be the path



The logo for GOL Airlines, featuring the word "GOOL" in a bold, sans-serif font. The letters are primarily orange, with a grey "O" in the middle that overlaps the orange "O" to its left and the orange "L" to its right.

Linhas aéreas inteligentes

Segurança Inteligência Servir Lowest-Cost