

BioJet in commercial scale Logistic and Distribution



- Plural who we are
- Aviation Industry commitment in Environmental issues
- Bio Jet in Brazil:
 - Refueling is possible
 - Increasing demand and limited local offer
- Bio Jet: Challenge of commercial scale



Associação Nacional das Distribuidoras de Combustíveis, Lubrificantes, Logística e Conveniência



Sindicom

Combustíveis

Logística 8

Conselho

Consultivo

Núcleo

Institucional

- 16 empresas associadas
- ✓ Aprox. 70% do mercado de combustíveis e 80% do mercado de lubrificantes
- 130 bases de distribuição
- ✓ 23 mil postos de serviço com as marcas das associadas
- √ 4.800 lojas de conveniência
- 13 refinarias
- ✓ 54 terminais (5,8 bilhões de litros, 75% da tancagem total)
- \checkmark 7.500 km de dutos



Aviação



























Aviation Industry: commitment with environmental open plural issues



Incentive Programs for emition reduction

Incentive for bio fuels local production in Brazil



Infrastructure: how to stimulate new investments?



Reduce emissions in Aviation industry



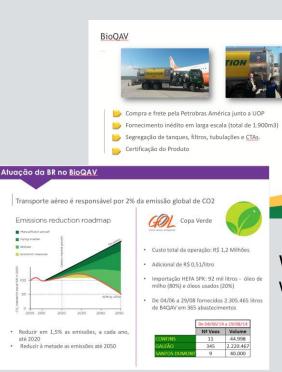
The main target is to lead the country in a new step of progress. To achieve the target is fundamental to connect all initiatives.

Bio Jet in Brazil: refueling is a real possibility



Commercial Aviation: refueling with bio jet, form different technologies and approved by airlines and OEMs, made in more than one occasion.

- TAX: manual process
- Segregate equipment's
- International Quality Certificate
- Operation very specific



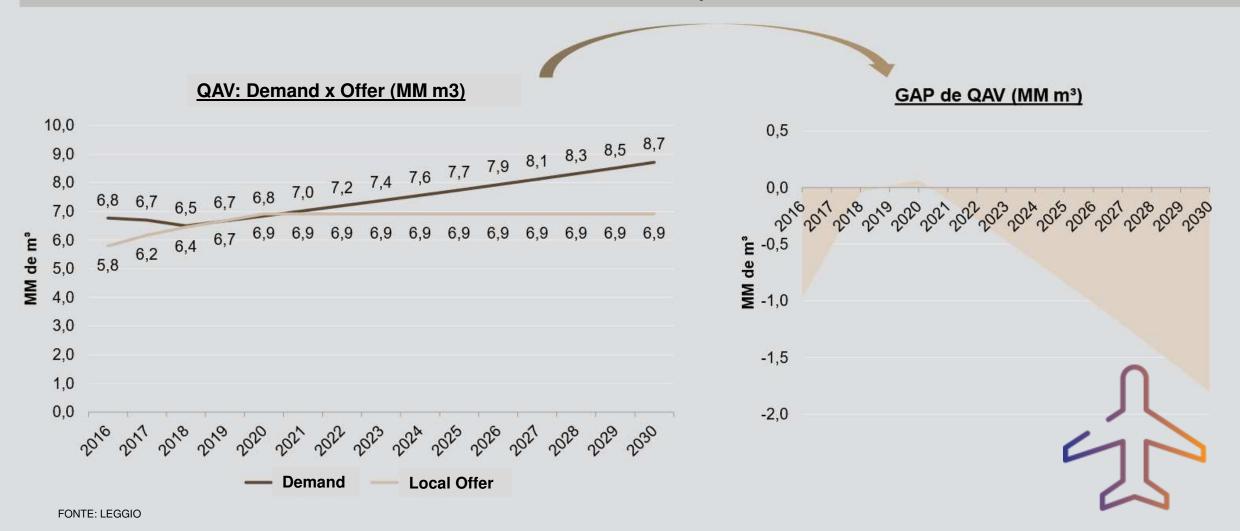


WORLD CUP 2014: More than 350 flights with Bio Jet

BioJet in Brazil: Increasing demand and limited Jet Fuel local offer



Considering the increase in local refineries production, the local market will have GAP up to 2021 achieving 1,8 MM m3 in 2030 even in a conservative analysis.



Bio Jet:Challenge of commercial scale



Product:

Bio Jet is real. We have more than on option of row material in a country with natural advantages for bio fuel production.

Market:

Jet A1 local offer will not be sufficient for the projected demand up to 2021

Tax:

Its mandatory to create specific tax rules for the new product. Biodiesel example could be used.

Cost/ Benefit:

Considering no differences in tax, is important to evaluate the increment in costs: product, logistics, new infrastructure.





















Commercialization:

Its possible to do it but just in specific operations.

Commitment:

Brazilian Airlines already sign CORSIA.

Infrastructure:

Drop in is not a reality. Bio Jet needs mix with fossil product. In this way the infrastructure for commercialization needs to be segregated and, therefore, built.

The current logistics, based in pipeline, also needs to be prepared for conversion to road transport which requires prior definitions.





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