MAKING SUSTAINABLE ALTERNATIVE FUELS VIABLE IN BRAZIL

Renato Domith Godinho

Division for New and Renewable Energy Resources Department of Energy Undersecretariat for the Environment, Energy, Science and Technology

Ministry of Foreign Affairs - Brazil



MINISTÉRIO DAS RELAÇÕES EXTERIORES

Renewable energy and the role of Brazil's Ministry of Foreign Affairs

- Facilitate collaboration and exchange in energy market regulation and systems integration, renewable energy policies
- 2. Support bilateral cooperation in renewable energy, in particular bioenergy and biofuels.
- Promote the potential of ethanol, advanced biofuels and other forms of low carbon bioenergy→ Biofuture Platform
- 4. Promote regional energy integration, including the negotiation of bilateral and regional agreements
- Support the expansion of solar and wind power in Brazil

Bilateral instruments in renewable energy

- Africa: 16 Asia and Oceania: 16
- Central America: 28
 Europe: 26
- North America: 6
 South America: 71

TOTAL: 163 bilateral instruments in renewable energy signed by Brazil

Brazil-US Partnership for the Development of Aviation Biofuels (2011)

- Endorse the development of sustainable biofuels for aviation as an important means of reducing aviation GHG emissions;
- Coordinate efforts towards the establishment of common standards and specifications for aviation biofuels;
- Support the dialogue between the Brazilian Alliance for Aviation Biofuels (ABRABA) and the Commercial Aviation Alternative Fuels Initiative (CAAFI);
- Provide for coordination in multilateral fora concerning aviation biofuels in order to prevent international barriers to biofuels trade and development and to ensure that the use of biofuels is promoted as an important contribution for GHG emissions reduction.



20 countries launch the Biofuture Platform at COP22

Launch event also attended by heads and top-level representatives of FAO, IEA, IRENA, UNIDO, SE4ALL and of private sector organizations such as the WBCSD, UNICA, ABBI.

Biofuture Member Countries



Argentina • Brazil • Canada • China • Denmark • Egypt •
Finland • France • India • Indonesia • Italy • Morocco •
Mozambique • Netherlands • Paraguay • Philippines •
Sweden • United Kingdom • United States • Uruguay



Biofuture Platform – Mandate

- Policy dialogue and collaboration;
- Awareness-raising and communication;
- Analysis and information sharing;
- Promotion of R&D and innovation;
- Promotion of sustainable practices; and
- Investment facilitation.



Biofuture Platform – Linkages

MISSION INNOVATION

Accelerating the Clean Energy Revolution



IEA Bioenergy





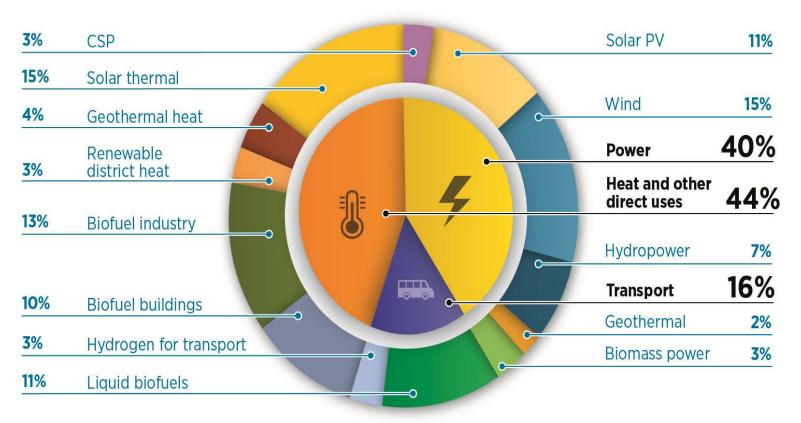


Perspectives for the energy transition

- To meet the Paris Agreement climate objectives and limit the planet's temperature increases to 2°C degrees, the CO2 emission intensity of the global economy needs to be reduced by 85% over the next 35 years
- Biofuels contribution to the transport sector will have to increase 10 fold if climate change mitigation scenarios are to be met
- Particularly important for heavy freight transport, international shipping and aviation

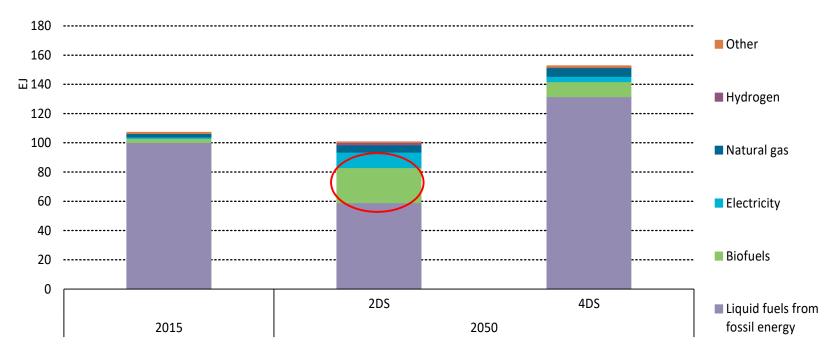
REmap 2050 (IRENA) Scenario

REmap 2050 235 EJ



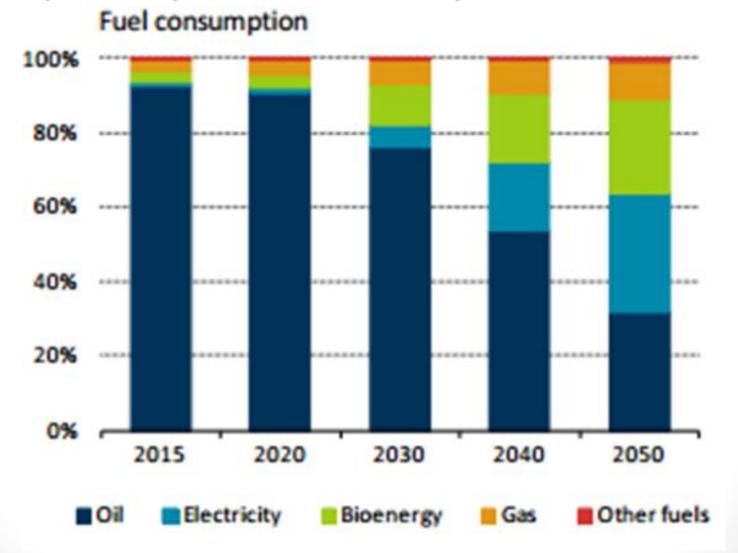
Biofuels play a very important role in climate change mitigation scenarios

Transport fuel demand comparison 2015 with 2DS and 4Ds in 2050



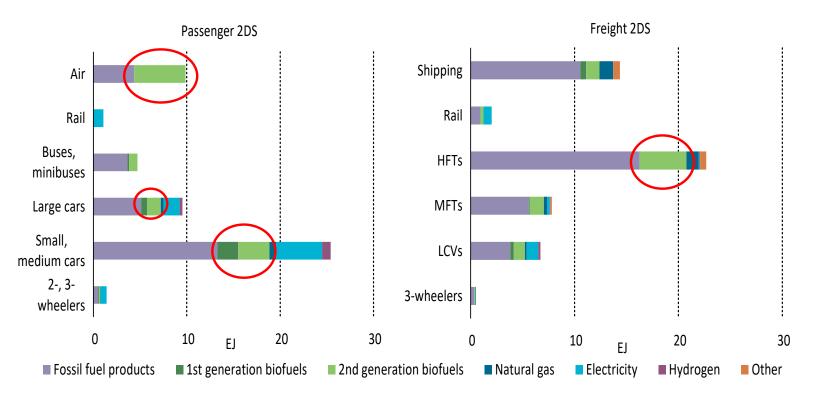
A significantly increased biofuels share is essential to move towards a 2DS in the transport sector.

IEA/IRENA scenario by 2050 - % fuel consumption by source in transportation



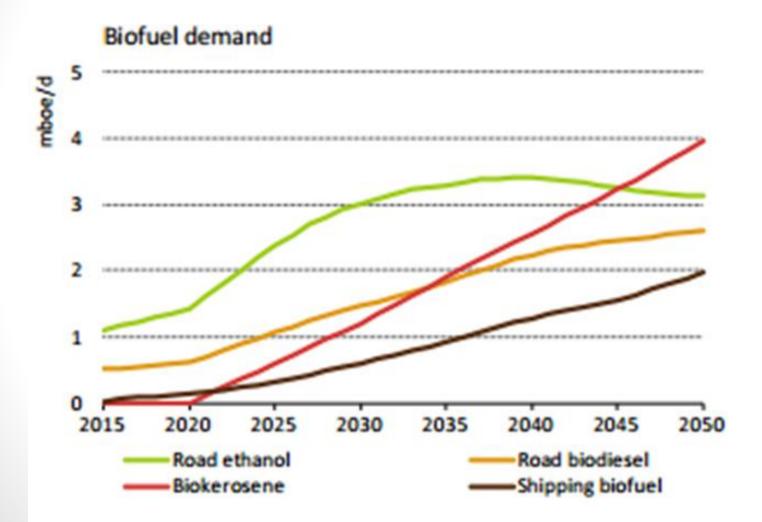
In this scenario, aviation biofuels to be prominent in the long run

Fuel shares in 2050 for passenger and freight modes by scenario



Conventional, and to a greater extent advanced, biofuels make key contributions within the 2DS by 2050. Especially in aviation and heavy duty road freight transport.

IEA/IRENA scenario by 2050 – biofuel demand, particularly aviation





ICAO Assembly Resolution A39-3 (October 2016): CORSIA as a global market-based measure to complement a broader basket of measures that includes sustainable alternative fuels

• Achieve global aspirational goal of carbonneutral growth from 2020 onwards

Aeroplane operators may claim emissions reductions from the use of sustainable aviation fuels (SAF) that meet sustainability criteria

CAEP-AFTF developing recommendations for the recognition of SAF under CORSIA

Main discussions in CAEP-AFTF regarding SAF currently include:

1) Determine CO2 emissions reduction of different SAF pathways (LCA)

2) Determine ILUC factor

3) Sustainability criteria

Important issues:

- periodic review of CORSIA every three years from
 2022 to assess ICAO's global aspirational goal
- ILUC models and eligibility
- Future of the market-based measures
- Transition from offseting to SAF

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Thank you!

drn@ltamaraty.gov.br

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