Indonesia Aviation Biofuels Policy

Presented by:

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Indonesia submitted its State Action Plan to Reduce Emissions in The Aviation Sector to ICAO in May 2013 with a basket of measures including:

- Use of Renewable Energy Sources (Bio Fuel, Renewable Energy)
In 2013 it was launched the Indonesia Aviation Biofuels and Renewable Energy Task Force

Stakeholders: regulator, operators, manufacturer, MROs, associations, research center, university and academia
COLLABORATION OF NATIONAL & INTERNATIONAL STAKEHOLDERS IN ABRETF
INDONESIA INITIATIVE IS FRAMED AMONG OTHER GLOBAL PARALELL EFFORTS

<table>
<thead>
<tr>
<th>Country</th>
<th>Year</th>
<th>Total Target</th>
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<tbody>
<tr>
<td>European Union</td>
<td>2020</td>
<td>application drop-in biofuel 4%, 2 MTon/year</td>
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<td>United State of America</td>
<td>2018</td>
<td>application drop-in biofuel 1.000 MGallon /year</td>
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<tr>
<td>China</td>
<td>2020</td>
<td>application drop-in biofuel 3%, 4.2 MTon/year</td>
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<td><strong>Indonesia Initiatives</strong></td>
<td>2016-2020</td>
<td>Application drop-in up to 3%, Totally 1, 76 Mkl</td>
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<td>2025</td>
<td>5% mixed target</td>
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<td>Etc.</td>
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REGULATORY FRAMEWORK: TRANSPORT BIOFUELS MANDATES

INDONESIA AIMS TO ESTABLISH A 2% USE OF AVIATION BIOFUELS BY 2018 AND 5% BY 2025

Ministry of Transportation Decree No. KP 201/2013;
Ministry of Energy & Mineral Resources Decree No. PM 32/2008 revised to No. PM 12/2015 concerning on Provision, Utilization, and Procedures of Commerce of Biofuels as Other Fuel

1. Priority of biofuel utilization,
2. Mandatory of biofuel Implementation
   - Biodiesel for Land Transportation/Ground Services 15% by Q2/2015; 20% by 2016 and 30% by 2020
   - Biojet Fuels for Aviation 2% by 2018, 3% by 2020 and 5% by 2025
   - Renewable Energy for Airport Operational 7.5 MW up to 2020
   - Implementation of energy conservation in the airport
3. Standard and quality of biofuel,
4. Pricing policy,
5. Commercial activities of biofuel,

Source: Ministry Energy and Mineral Resources of ROI
AVIATION BIOFUELS IN INDONESIA: SUSTAINABILITY IS A TOP PRIORITY

- **Sustainability is a top priority** for the aviation industry and also for the Indonesian Aviation Biofuels and Renewable Energy initiatives.

- The Indonesia Government **has developed the Indonesia Sustainable Palm Oil (ISPO) standard**, to warrantee the sustainability of the feedstocks used.

- **Indonesia is supporting** with important resources the **development of a global sustainability framework in ICAO** through the work of CAEP.

- In this effort **is closely cooperating with the United States**
ICAO 39TH ASSEMBLY:

APPROVAL OF THE CARBON OFFSETTING AND REDUCTION SCHEME FOR INTERNATIONAL AVIATION (CORSIA)

Indonesia has volunteered to participate in the first implementation phase and to facilitate regional cooperation as a pilot country.
The Federal Aviation Administration (FAA) and Indonesian Directorate General of Civil Aviation (DGCA) signed in 2015 an agreement to promote developing and using sustainable, alternative aviation fuels and additional environmental collaboration between the two nations.
Thank you