



**ICAO “CAPACITY BUILDING SEMINAR ON LOW EMISSIONS AVIATION MEASURES**

**24 -26 April 2018**

**NORMAN MANLEY INTERNATIONAL AIRPORT (NMIA), KINGSTON, JAMAICA**

**PRELIMINARY PROGRAMME**

<b>DAY 1 – 24 April 2018</b>	
<b>REGISTRATION: Please see General Information Document</b>	
15:00 – 15:40	<b>Welcome and introduction</b>  Moderator: Mr. Rohan Campbell, Deputy Director General Regulatory Affairs, Jamaica Civil Aviation Authority (JCAA) <ul style="list-style-type: none"><li>• Representative of the Minister of Transport and Mining, Jamaica</li><li>• Ms. Jane Hupe, Deputy Director, Environment, International Civil Aviation Organization</li><li>• Mr. Marcel Alers, Global Head Energy, Infrastructure, Transport and Technology, United Nations Development Programme</li></ul>
15:40 – 16:15	<b>The solar-at-gate pilot projects: project inception, management and lessons learnt</b>  Moderator: Ms. Adilia Hornek, Project Manager, Consultant, ICAO <ul style="list-style-type: none"><li>• Ms. Althea Roper, Manager, Aviation Statistics Airfares and Rates, Jamaican Civil Aviation Authority</li><li>• Mr. Junior Levene, Energy Management Coordinator, Airports Authority of Jamaica</li><li>• Mr. Stephen Barrett, Technical Advisor, Consultant, ICAO</li><li>• Mr. Norman Davis, Managing Director, PowerGen Limited</li></ul>
16:15 – 17:30	<b>Ribbon Cutting / Ownership Transfer followed by a Guided Tour of Facilities</b>
18:00	<b>Cocktail Reception</b>



<b>DAY 2 – 25 April 2018</b>	
09:00-10:30	<p><b>States’ strategy to deal with international aviation emissions: ICAO State Action Plans</b></p> <p>In 2010, ICAO launched the States’ Action Plan initiative. As of February 2018, 106 States representing more than 90.1 per cent of global revenue tonne kilometers (RTK) have voluntarily developed and submitted their Action Plans to ICAO, thus outlining their strategy to deal with international aviation emissions. The States Action Plans enable States and their stakeholders to articulate in a quantified manner the range of low emissions aviation measures that they intend to implement. After providing an overview of the State Action Plan initiative, this session will explain how the ICAO-UNDP-GEF capacity-building and assistance project fits into the ICAO State Action Plan initiative.</p> <p>Moderator: Ms. Adilia Hornek, Project Manager, Consultant, ICAO</p> <ul style="list-style-type: none"> <li>• Ms. Jane Hupe, Deputy Director Environment, ICAO</li> <li>• Dr. Neil Dickson, Chief Environmental Standards, ICAO</li> <li>• Mr. Luis Raúl Sánchez Vargas, Regional Officer, Aeronautical Meteorology and Environment, ICAO</li> </ul>
10.30 – 11:00	<b>Coffee Break</b>
11:00 – 12:30	<p><b>Implementation of low emissions measures: renewable energy at airports</b></p> <p>The objective of this session will be to build upon the experience gained with the implementation of the solar at-gate pilot project in Norman Manley International Airport, Jamaica and provide the audience with the most relevant information to be able to replicate such projects.</p> <p>Moderator: Ms. Adilia Hornek, Project Manager, Consultant, ICAO</p> <ul style="list-style-type: none"> <li>• Dr. Neil Dickson, Chief Environmental Standards, ICAO</li> <li>• Mr. Stephen Barrett, Technical Advisor, Consultant, ICAO on the ICAO-UNDP-GEF Guidance Document <i>Renewable Energy for Aviation: Practical Applications to Achieve Carbon Reductions and Cost Savings</i></li> <li>• Dr. David Renné, President, International Solar Energy Society</li> <li>• Mr. Shane Munroe, Chief Technical Officer of Sangster International Airport</li> </ul>
12:30 – 14:00	<b>Lunch break</b>
14:00 – 15:00	<p><b>Session continued</b></p> <p>Renewable energy can be deployed by Member States and aviation stakeholders to reduce CO<sub>2</sub> emissions from international aviation activities. ICAO has produced guidance to help States assess renewable energy opportunities and select the</p>



	<p>solutions that best meet their operational needs. This session will explore existing renewable energy technologies and their use, issues to consider in project conceptualization, the fundamental steps for planning and developing a renewable energy project, and a summary of several project examples from existing airports in the region.</p> <p>Moderator: Ms. Adilia Hornek, Project Manager, Consultant, ICAO</p> <ul style="list-style-type: none"> <li>• Mr. Stanley Smith, Chief Executive Officer, Antigua and Barbuda Airport Authority</li> <li>• Mr. Stephen Barrett, Technical Advisor, Consultant, ICAO</li> <li>• Ms. Areefa Khan-Labban, Health Safety and Environment Specialist, Trinidad and Tobago Civil Aviation Authority</li> </ul> <p><b>Question and Answers Session</b></p>
15:00 – 15:30	Coffee Break
15:30-17:00	<p><b>Implementation of low emissions measures: sustainable aviation fuels</b></p> <p>Sustainable aviation fuels are an essential component of ICAO’s basket of measures to reach the international aviation global aspirational goal of carbon neutral growth from 2020. More than 100,000 flights have already been operated using a portion of alternative aviation fuels, thus demonstrating the technical feasibility of such fuels and their associated environmental benefits. This breakthrough is supported, and even driven by States worldwide. Thus, this session will give access to first-hand information on how to set-up a sustainable aviation fuels supply chain.</p> <ul style="list-style-type: none"> <li>• Moderator: Ms. Jane Hupe, Deputy Director Environment, ICAO</li> <li>• Dr. Neil Dickson, Chief Environmental Standards, ICAO, on the ICAO-UNDP-GEF Guidance Document <i>Sustainable Aviation Fuels Guide</i>.</li> <li>• Mr. Juan Veras, DGCA Dominican Republic</li> <li>• Ms. Ofelia Barcena, Assistant Director, IATA</li> </ul> <p><b>Questions and Answers Session</b></p>
17:00-17:30	Closing Remarks of Day 2
<b>DAY 3 - 26 April 2018</b>	
09:00-10:30	<p><b>Supporting SIDS and their aviation stakeholders in selecting measures for the State Action Plan on CO<sub>2</sub> Emissions Reduction Activities from International Aviation - Launch of the MAC curve Tool.</b></p> <p>All ICAO Member States want to act on the environment. ICAO’s role is to carry out activities in support of States’ commitment to environmental protection. The ICAO-UNDP-GEF project has enabled the development of a unique guidance document which will support States and their aviation stakeholders in quantifying</p>



	<p>the costs and environmental benefits of 20 selected mitigation measures. Such guidance is expected to greatly facilitate the submission of quantified States’ Action Plans, and the implemented of the measures selected in the plans. This session will include a tutorial on ICAO MAC Curve Tool (2018). Calculating Marginal Abatement Costs of Mitigation Measures and Corresponding Emissions Reductions.</p> <p>Leader: Dr. Neil Dickson, Chief Environmental Standards, ICAO</p>
10:30-11:00	Coffee break
11:00 – 12:00	<p><b>Regulatory and Organizational Changes</b></p> <p>The question of governance is at the core of States’ efficient decision-making. With the objective of sound aviation environmental management in mind, this session will detail possible recommendations for States to integrate in their governance structure.</p> <p>Moderator: Ms. Jane Hupe, Deputy Director Environment, ICAO</p> <ul style="list-style-type: none"> <li>• Mr. Stephen Barrett, ICAO-UNDP-GEF Guidance Document <i>Regulatory and Organizational Framework to Address Aviation Emissions</i></li> <li>• Mr. Ricardo Case, Director, Engineering Services, Jamaica Public Service</li> <li>• Mr. Eduardo Caldera Petit, ICAO-European Union Programme Coordinator</li> </ul>
12:00 – 13:30	<p>Lunch break</p> <p><b>Demonstration of the Low-Carbon Aviation Knowledge-Sharing Platform</b></p>
13:30 – 15:00	<p><b>Financing Low Emissions Aviation Measures</b></p> <p>Amongst the challenges faced by States and stakeholders in implementing identified low emissions aviation measures, financing often comes on the top of the list. This session will raise awareness on the various financing mechanisms available to implement aviation measures with a positive impact on the environment, and will demonstrate that the modernization of facilities and economic development should be an integral part of the business case for renewable energy projects.</p> <p>Moderator: Dr. Neil Dickson, Chief Environmental Standards, ICAO</p> <ul style="list-style-type: none"> <li>• Mr. Stephen Barrett, Technical Advisor, Consultant, ICAO on the ICAO-UNDP-GEF Guidance Document <i>Financing Aviation Emissions Reductions</i></li> <li>• Mr. Kingsley Thomas, Senior Advisor, Caribbean Basin Sustainable Energy Fund (CABEF)</li> <li>• Mr. Leonard Allen, President, Solera Renewable Energies</li> </ul> <p><b>Questions and Answers Session</b></p>



15:00-15:30	Coffee break
15:30-16:30	<p><b>Renewable Energy in the Caribbean: current initiatives and possible synergies</b></p> <p>This session will explore how to create synergies with on-going regional projects and identify possible cooperation opportunities to further advance clean energy use in the region, in line with SDG 7.</p> <p>Moderator: Dr. Neil Dickson, Chief Environmental Standards, ICAO</p> <ul style="list-style-type: none"><li>• Mr. Donneil Cain, Senior Project Manager, Caribbean Community Climate Change Centre</li><li>• Ms. Rachel Paulk, Deputy Chief of Party, US AID Caribbean Clean Energy Programme</li></ul> <p><b>Questions and Answers Session</b></p>
16:30 – 17:00	<p><b>Conclusions from the Seminar and next steps</b></p> <p>Mr. Rohan Campbell, Deputy Director General Regulatory Affairs, JCAA Mr. Marcel Alers Global Head Energy, Infrastructure, Transport and Technology, United Nations Development Programme Ms. Jane Hupe, Deputy Director Environment, ICAO</p>
17:00	End of Seminar

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