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Title:	<p>Head of Air Quality Office, Environmental Protection Section, HCAA</p>	
Presentation title:	<p>Alternative Fuels for Aviation</p>	
<p>The reduction of Green House Gas emissions is a major driver for the introduction of alternative sustainable fuels. Aviation's main target is to build more fuel efficient aircraft fleet and to operate it safely and fruitfully, while minimizing environmental impacts. Changing the fuel source is one of the promising options, in the aviation industry, for reducing carbon footprint.</p> <p>Aviation has achieved successful steps in bringing sustainable alternative fuels to technical maturity for use in commercial aircraft and numerous flights have demonstrated that the fuels can be safely and regularly used. Drop-in fuels are the only current candidates for aviation, since any perceived production cost advantages of non-drop-in fuels cannot compensate costly incompatibilities with the current equipment and infrastructure. In the short term, the focus is to increase the use of blend stocks which copy the molecules already present in conventional fuels.</p> <p>The work within ICAO is making a key contribution for the future potential of alternative jet fuel. Regulations have been introduced in Europe, United States and other countries to promote the use of renewable energies. Those regulations in addition define sustainability criteria that biofuels should respect, duties being placed on the producer to demonstrate their compliance and defined thresholds for GHG emissions reductions that should be achieved by biofuels.</p> <p>Environmental certification following sustainability frameworks is today the principal way to ensure the sustainability of biofuels production. Life Cycle Analysis should include upstream and downstream processes associated with the production, delivery and disposal and relevant environmental impact assessment. With the prospect of additional supply options, regular supply and use by an airline, and increasing policy momentum from States, there is a potential to achieve a significant evolution of alternative jet fuel use in aviation.</p>		
Short CV:		
<p>Georgia Lykou(GL) is working as Mechanical Engineer in Environmental Protection Section of Hellenic Civil Aviation Authority(HCAA). She is representing Greece in ICAO Committee on Aviation Environmental Protection (CAEP).</p> <p>GL holds BSc in Energy Technology Engineering, MBA (Athens University Economics & Business(AUEB)), MSc in Applied Environmental Protection (PIRAEUS UNIVERSITY OF APPLIED SCIENCES), MSc in Information Technology and PhD Candidate on Critical Infrastructure Protection of AUEB Department of Informatics.</p>		