

NEW IDEAS FOR ECOLOGICAL AIRCRAFT

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Being the most convenient and enjoyable of all long distance trips, flying is one of the most carbon heavy ways to travel.

Though planes allow us to travel more, they create a massive amount of climate-change accelerating greenhouse gas emissions.

To make flying more eco-friendly, the aviation company Airbus has recently announced its vision for airports and planes of the future. Five specific innovations can drastically reduce the industry's carbon output.

Eco Climb: Aircraft is launched through assisted takeoffs using renewably-powered propelled acceleration for steeper climb from airports to minimize noise and to reach efficient cruise altitudes more quickly.

Express Skyways: High-frequency routes would also allow aircraft to benefit from flying in formation like birds during cruise bringing efficient improvements due to carbon reduction and lower energy use.

Free Glide Approach and Landings: Free glide approaches into airports would decrease emissions during the overall descent and reduce noise during the steeper approach as there is no need for engine thrust or air breaking.

Ground Operations: Super-accurate landings allow autonomous clean-powered taxi carriages to be ready, so aircraft can be transported away from runways quicker, optimizing space and reducing delays.

Eco Fuel: Use of biofuels and other renewable fuels would bring the development of regionally-sourced renewable energy close to airports, and this does both aircraft and infrastructure requirements sustainable.

According to this if the air traffic management systems on board aircraft are successfully optimized, the aviation sector will save 9 million tons of fuel a year and 28 million tons of CO₂ emissions.

New Technology and Modern World: матеріали VII науково-практичної студентської конференції лінгвістичного науково-методичного центру кафедри іноземних мов, м. Суми, 22 травня 2013 р. / Відп. за вип. Г.І. Литвиненко. - Суми: СумДУ, 2013