

SALON DE L'AVIATION VERTE

Green aviation show
18 au 20 juin 2010

L'AVIATION DU FUTUR



HYDROGÈNE

SOLAIRE

ÉLECTRIQUE

BIOMASSE

Studio Mosaïque avec le partenariat scientifique de l'ONERA

Musée de l'Air et de L'Espace
Aéroport Paris Le Bourget
www.museedelair.org



AVIATION : THE ECOLOGICAL CHALLENGE



FACTS *

- **250 million tons** of CO2 sent each year into the atmosphere
- An activity that **doubles** every 15 years
- **26,000** transport aircraft in 2009... 50,000 in 2020?
- **300 million** people more directly affected by noise and emissions

ACTORS

Manufacturers, airlines, airports' managers, air traffic controllers and many others endeavor to reduce the environmental impact of aeronautical activities.



SOLUTIONS

- Technological innovations (materials, motorisation, fuels...)
- Operational improvements (traffic circulation, airports management...)

GOALS

Meet the objectives that have been outlined by the Advisory Council for Aeronautical Research in Europe (ACARE): 50% CO2 exhausts and 50% less noise as of 2020.

[according to IPCC 2000]*

A WAY

2nd edition of the Green Aviation Show
from 2010, June 18th to 20th
Paris-Le Bourget Airport

To make aviation becoming green,
means more than ever to reconcile progress and future!



2nd GREEN AVIATION SHOW FLIGHT PLAN



Organized by the National Air and Space Museum on the grounds of Paris-Le Bourget airport, the exhibit is sponsored by the French Civil Aviation Authority (DGAC) and its director, Patrick Gandil, who wishes that *“this “green” aviation exhibit at the Bourget will become a platform with a flight plan highlighting environmental enhancement with real positive impact”*.

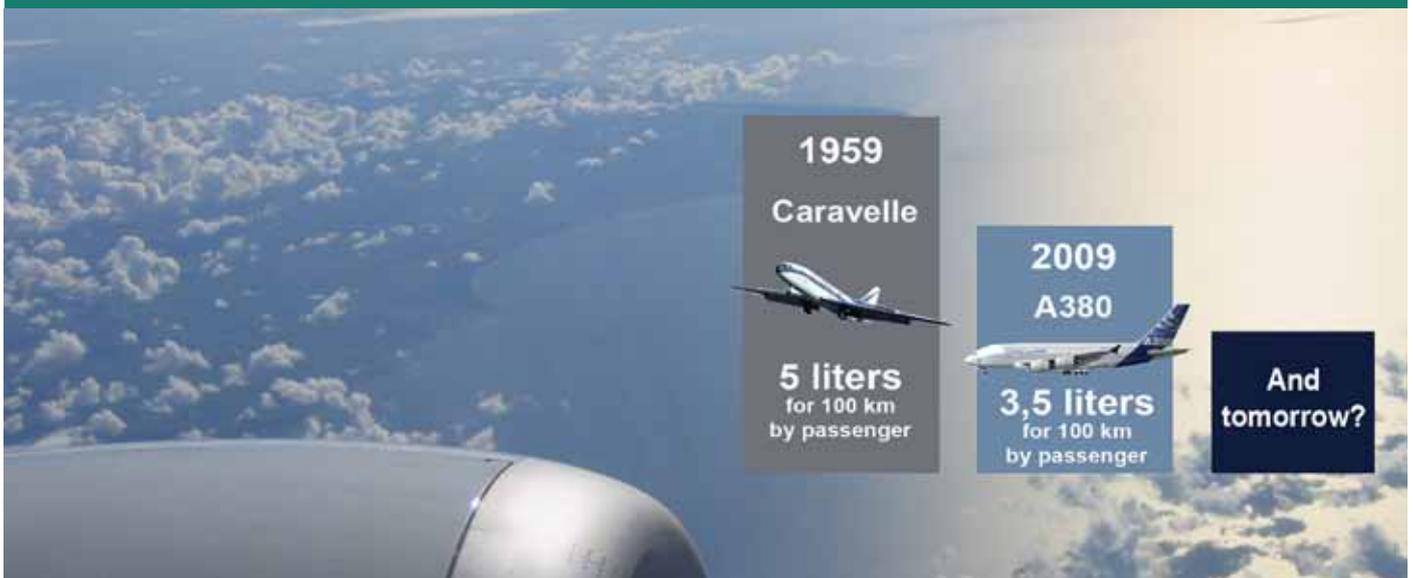
The development of sustainable mobility is the result of a particular awareness toward the protection of environment and a change in mentalities and habits. The concept of “green aviation” will trigger the introduction of new and often complex technological concepts and will also be a great source of information.

In order to provide the best informative tools to comprehend this always evolving sector, the 2nd edition of the Green Aviation Show at the Bourget has several goals:

- **TO EXPLAIN:** Booths, educational workshops, conferences.
- **TO SHOW:** Permanent exhibit, animations.
- **TO SUPPORT:** R&D and school projects area.
- **TO SURPRISE :** First ecological airshow.



REDUCE AIR TRANSPORTATION IMPACT



The professionals of the industry, their clients and their users as well as the airlines and many different research organizations are all eager to find solutions in order to reduce the impact that their activities have on the environment.

Technological innovations

- Using new and lighter materials
- New designs and streamlined devices
- Cut into energy consumption for aircraft
- Development of engines with better efficiency
- Use of products with less ecological impact
- Test of alternative fuels

Sustainability of operations

- More efficient on ground and in flight procedures
- Reduction of aircraft' dry weight
- Optimization of air traffic worldwide
- Recycling of aircraft and use of recycled materials
- New rules and regulations regarding the environment

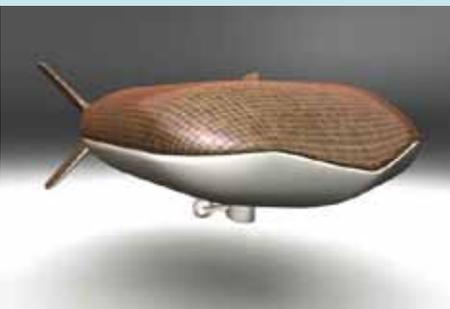
Better infrastructures

- Settings of ecological standards for airports
- Use of emission free airport vehicles
- Cleaning of aircraft using biodegradable products
- Recovery and processing of the de-icing liquid
- Use of airport ground electricity rather than auxiliary engines

The aeronautical constructors and operators will all present their innovations on their booth.



GET READY FOR THE POST-OIL ERA



Air sports and leisures combine performance and respect for the environment with totally innovative machines that are presented on the market and shown as “demonstrators”.

General aviation has also committed its “ecological turn” and fostering the implementation of alternative energies. Industrial, associations or individuals, are expanding many programs to show in the sky a whole new generation of devices.

Champions of the energy and environmental performance, often perfectly silent the “new birds” electric, solar, 2nd generation biofuels or hydrogen reconciled with the planet but also with airfields neighborhood and opponents to recreational aviation.

Balloon, airship, paragliding, microlight, light aircraft, helicopter and drone: all this types of machines now have their green specimens.

Spread in a village, booths and aircraft exhibitions engage the visitors curiosity. Aviation enthusiast and environmental citizens have the opportunity to discover the precursors of the present and future aviation with just a walk on the tarmac.



THE FIRST «ZERO EMISSION» AIRSHOW



For the first time in the world, the Green Aviation Show proposes a flight demonstration program which, by focusing on electrical and non-motorised flight, has (almost) no environmental impact.

“Emission Free” flying vehicles

- Solar dirigible balloon with hydrogen
- Electrical “Paramotor”
- Electrical and hydrogen microlight
- Light electrical aircraft, with hydrogen and/or solar system
- Glider
- Hang-glider
- Paraglider
- Electrical scale models

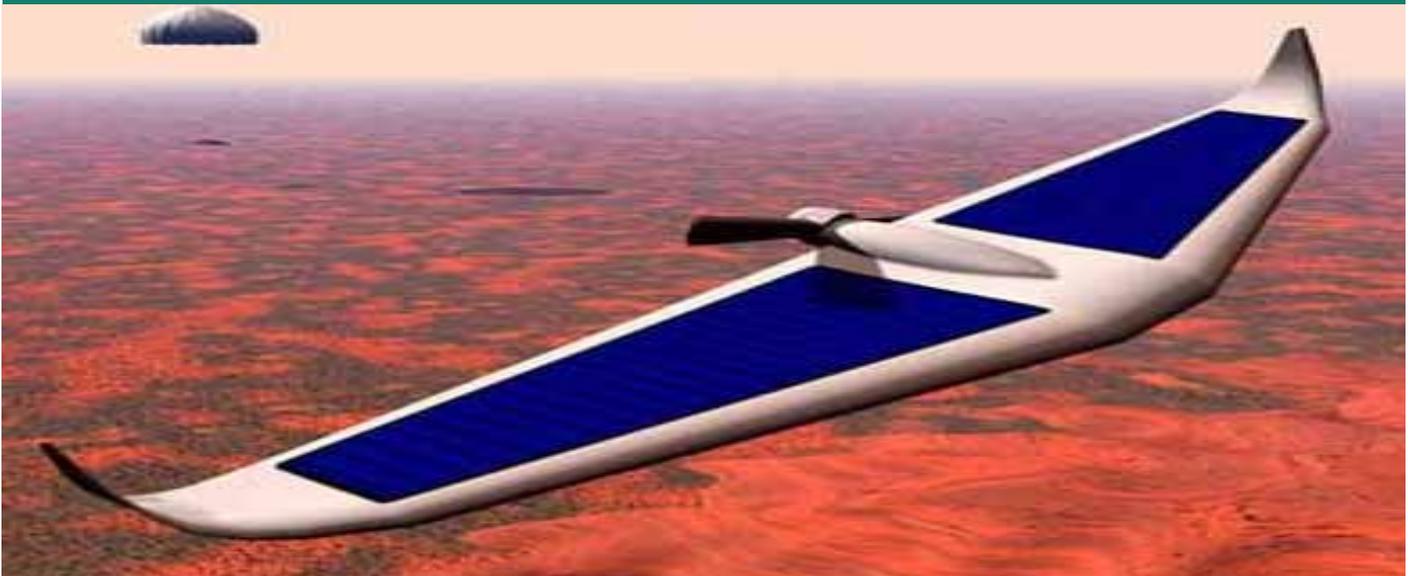
Transitional solutions

- Diesel cycle engine
- Biomass fuel
- Quieter propeller

Animations come to punctuate the program: electrical scale models demonstrations, motogliders fly-in...



ON THE TRACK OF FUTURE



Revolutionary design with pure lines, amazing performances erasing distances, environmental impact close to zero: tomorrow aircraft generates many hopes.

Exposed to ecological challenges, manufacturers, engineers, researchers and students endeavor to solve the paradoxical equation: how to combine air transportation inevitable growth while decreasing emissions and noise ?



Born from 3D modeling, many projects illustrate these futuristic research. But among them, which will really leave the science fiction field? And when?



INFORMATION AND CONTACTS



DATES

June 2010, from Friday 18th to Sunday 20th

OPENING HOURS

Exhibit areas from 10 am to 6 pm

Flight demonstrations from noon to 3 pm

CONTACTS

PLANETE'SIM

c/o Musée de l'Air et de l'Espace

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