

hOListic Green Airport (OLGA) **aims to reduce the environmental impact of the aviation sector.** It develops innovative and sustainable solutions to **reduce CO₂ emissions, optimise energy efficiency, preserve biodiversity, and improve air quality and waste management.**

This set of innovations is developed by **Paris Charles de Gaulle in France as lighthouse airport and Milano Malpensa in Italy, Zagreb in Croatia and Cluj Napoca in Romania as fellow airports.** The participation of Air France, the French national airline, must also be noted, especially for the demonstration of the decarbonisation solutions.

We innovate to reduce environmental impact

Airport operations

- Decarbonising ground operations
- Hydrogen Hub
- Reducing electricity consumption
- Accelerated deployment of sustainable alternative fuels and electromobility in transport, as well as sustainable energy supply and storage and waste heat recovery in airports

Passengers & cargo

- Increasing the modal share of carbon-free transport for airport-city journeys
- Optimised passenger and freight flows for low emission mobility, in a context of much stricter public health criteria

Community & territories

- Improving air quality in and around airports
- Green and smart logistics, integration with rail and promoting effective modal shifts
- Improved city integration for airports
- Reduced emissions and improved air quality, biodiversity, and contribution to the circular economy

EU Policies and projects

- Contributions to Europe-wide take-up of technological, non-technological and socially innovative solutions
- Significant, direct and immediate contribution to the achievement of the European Green Deal, as well as other EU transport policy objectives

TRANSPORT LANDSIDE, ACCESS & MULTIMODAL

- Low-carbon connection with cities
- IT for multimodality and traffic flow optimisation
- Mobility on Demand and Mobility as a Service for landside transport demands
- Autonomous landside mobility
- Waste to bioNGV (Natural Gas for Vehicles) buses
- Rail-air intermodality



TRANSPORT AIRSIDE

- Low-carbon airside ground support equipment, mobility infrastructure and electrification optimisation software
- Green Apron and drones, Green taxiing and Green Logistics
- Auxiliary Power Unit substitution
- Biodiesel 100% for heavy-duty vehicles



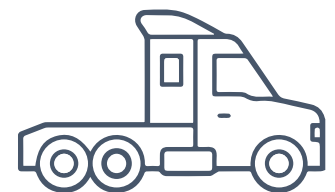
TERMINAL AREA

- Environmental innovations in lighting in a terminal
- BiodiversIT for biodiversity management and improvement
- Energy efficiency to achieve green construction
- Green deconstruction and light CO₂ material
- Waste reduction



ENERGY AND HYDROGEN

- Hydrogen airport design
- Green hydrogen production and use
- Business models of Sustainable Aviation Fuel
- Waste to gaseous fuel



CROSS-CUTTING ASPECTS

- Software as a service platform for greenhouse gases and pollutants
- Air quality source apportionment
- Innovative business models for circular economy



OLGA's commitments directly align with 9 out of 17 Sustainable Development Goals of the United Nations. In this sense, the project will deliver environmental efficiency actions with the purpose of increasing performance from three perspectives.



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