

## Torino Green Airport The environmental sustainability path of Torino Airport

- *In 10 years: -32 % of total electricity consumption, -20 % heating fuel consumption and -45 % CO<sub>2</sub> emissions*
- *Since 1 January 2021, the electricity purchased has been 100% from renewable sources*
- *New projects under way, including: car fleet with hybrid or electrified vehicles; new parking lots with recharging stations; 15 hectares of green areas dedicated to the cultivation of chamomile to protect biodiversity; start of the Smart Grid airport project, for the efficient and sustainable self-production of the energy necessary for the functioning of the infrastructure*
- *On the communication front, sustainability is realised in a new visual identity, with the blue logo of Torino Airport presenting itself with a switch toward the green of Torino Green Airport*

Caselle Torinese, 7 July 2021 – Torino Airport chooses the sustainability path and launches the “Torino Green Airport” project.

An initiative that aims to gather **all the interventions oriented toward environmental sustainability** already implemented by the Airport in the past, those being implemented in the present, and those planned for the future.

This is a strong strategic choice in relation to environmental sustainability, considered essential for an airport infrastructure: this strategy represents a qualifying element to confirm **the commitment of the SAGAT Group**, which is the Torino Airport Management Company, **to environmental protection and to the fight against climate change**.

Torino Airport wants **to manage the infrastructure and airport operations in an energy-efficient way, consuming less and less energy and avoiding resource waste**.

Each activity is therefore directed to respect for the environment, understood in its broadest sense, and the lines of action are indeed articulated on all environmental assets: **energy, CO<sub>2</sub> emissions and decarbonisation; management of green areas and protection of biodiversity; waste; water; airport noise**.

The SAGAT Group has steadily increased its percentage of energy purchased from renewable sources over time and **from 1 January 2021 the electricity purchased is 100% from certified renewable sources** (guarantee of origin certificates – GO).

The aim is **to reduce waste and to recover** the waste produced, thus applying the **circular economy** principles; airport activities are carried out with the maximum **reduction of water consumption**, aiming at its reuse, and with the application of procedures aimed at **reducing acoustic emissions**.

The “Torino Green Airport” environmental sustainability path is therefore developed with a precise strategy: through the implementation of direct interventions, it aims to **involve not only the employees of the SAGAT Group, but also the entire airport community, the commercial partners, the suppliers, the passengers.**

The awareness of **the centrality of the role of the manager coordinating all the players** gravitating around the airport universe for sustainable growth, leads to a concrete commitment to specific aspects of sustainability: continuing to reduce CO<sub>2</sub> emissions together with other pollutants that compromise air quality (NO<sub>x</sub>, CO, PM<sub>10</sub>), while also reducing the environmental impact of airport operations on waste, water and noise.

### Results in figures

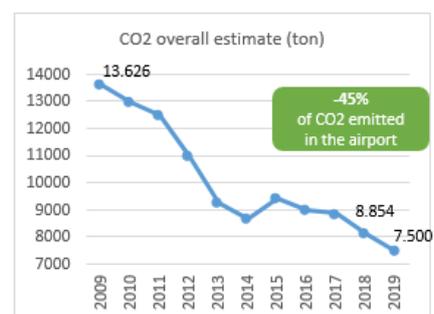
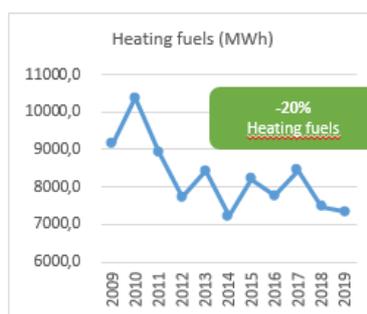
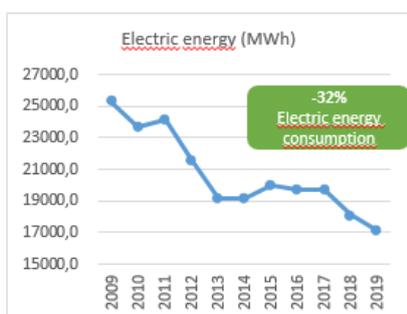
With the management of the airport activities in an environmental sustainability perspective, the decade **2009-2019** saw Turin Airport achieve **significant results in terms of reduction of CO<sub>2</sub> consumption and emissions.**

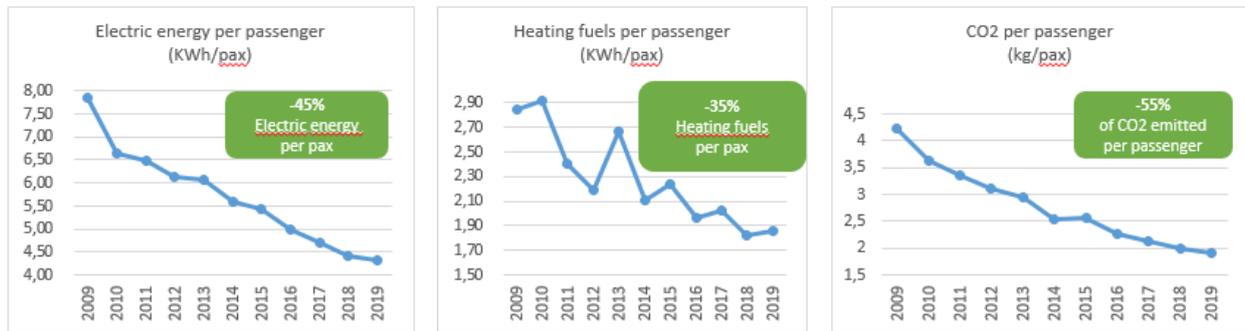
2020 reported even more significant results from the point of view of consumption containment, but since it was influenced by the effects of the Covid-19 pandemic, it cannot be considered for comparison.

With regard to **electrical energy**, the total consumption of more than 25,000 megawatt/hour in 2009 has risen to just over 17,000 megawatt/hour in 2019, with a reduction of -32% over the decade; a percentage that is contracted further to **-45%** if the consumption per passenger is recorded: in this case, it has in fact decreased from 7.83 kilowatt/hour in 2009 to 4.32 in 2019.

As for **heating fuels**, the contraction over the decade **was overall -20%**, from 9.167 megawatt/hour in 2009 to 7.350 megawatt/hour in 2019. Even in this case, if one considers **the consumption per single passenger**, the percentage reduction over the 10 years is higher: from 2009 to 2019 **the decrease was -35%**, passing from 2.84 to 1.86 megawatt/hour.

Finally, with regard to **the quantity of CO<sub>2</sub> emitted**, the decrease was **-45%**: if in 2009 Torino Airport emitted 13.626 tons of CO<sub>2</sub> into the environment, it reduced its emissions in 2019, almost halving them with just over 7.500 tons. **On the individual passenger**, the decrease exceeded the halving goal, **reaching -55%**: the tons of CO<sub>2</sub> per passenger decreased from 4.2 in 2009 to 1.8 in 2019.





These results have been achieved over the years through a series of activities focused on environmental sustainability.

These include the upgrading of airport buildings to make them more sustainable and less energy-consuming; the installation of a new summer air-conditioning unit with very high-efficiency refrigeration units; the replacement of heat generators with new high-efficiency and low-emission equipment; the replacement of the lighting bodies with new LED systems and the installation of automatic systems for the regulation of the luminous flux; the upgrading of the consumption monitoring systems and air conditioning management systems, the realisation of an **IOT system for the intelligent regulation of the climate comfort** of the General Aviation Terminal: the heating and air conditioning systems are adjusted by capturing data from probes installed throughout the building and by continuously optimizing environmental conditions in an intelligent manner. The installation has allowed savings in electricity and natural gas consumption of more than 30%.

In 2020 Torino Airport obtained the **Level 2 “Reduction” certification of the Airport Carbon Accreditation environmental sustainability program** - the common protocol for the active management of airport emissions through measurable results - promoted by ACI Europe.

The Level 2 certification also implies the preparation of an implementation plan to achieve an ambitious target for reducing **carbon emissions**: in the case of Turin, the target set for the next three-year period 2021-2023 is the halving of CO<sub>2</sub> emissions compared to the base year 2017, guaranteed by investments to increase the efficiency of the most energy-consuming systems and by the purchase of electricity only from certified renewable sources.

### New projects

Numerous projects currently under way are being implemented by Torino Airport in a sustainable perspective.

#### Decarbonisation

By 2023 the fleet of **airport vehicles powered by hybrid or electric motor** will be increased, leading within two years to a fleet of vehicles **40% of this type**, including **the first electric ambulance operating in an airport**.

**Electric charging spaces available to the public** will be realised: a new parking space is being built, which will have 8 columns for 16 cars, alongside a new parking dedicated to electric car sharing.

The **airport Smart Grid** project, aimed at the **efficient and sustainable self-production of the energy** necessary for the functioning of the infrastructure, is under way: the project involves the use

of a combined and flexible system, powered by different energy sources such as methane, biogas, hydrogen, photovoltaic and solar energy.

### Circular economy

Within the *circular economy*, as regards the **management of green areas and the protection of biodiversity**, Torino Airport has already adopted an impoverishing regime ("*Poor grass regime*" to make the lawn of the airport less attractive to birdlife and fauna, thereby minimising the risk of wildlife strike and reducing the total working hours of agricultural tractors in order to reduce environmental pollution.

Moreover, from autumn 2021, **15 hectares will be dedicated to the cultivation of chamomile which favours biodiversity (bee friendly)** and does not attract birds. The rest of the organic material collected will be used for biogas production, and the possibility of using the biogas produced to serve the airport infrastructure is being evaluated.

As regards water recovery, rainwater accumulation is planned through a system of tanks and filters that will be completed by 2024, in order to use it for airport operations and for routine industrial maintenance.

**In 2022 the ACA-Airport carbon Accreditation** sustainability certification path promoted by ACI Europe will continue, with the achievement of **the Level 3- "Optimization" certification**: this certification attests to the commitment to third-party involvement and the measurement of emissions of the Airport's partner companies.

This focus on sustainability is also reflected in the Aviation activity: **Torino Airport's Traffic Development Policy indeed recognises the value of environmental performance, including the reduction of aircraft noise.**

Torino Green Airport therefore represents a **strategic director of the development** of Torino Airport and, in order to educate and raise awareness in every single component of the airport business, from the operator itself to the suppliers, it also becomes the subject of an **external communication plan** (creation of a new ad hoc brand, characterised by the blue logo of Torino Airport presenting itself with a *switch* toward the green of Torino Green Airport) and an **internal communication plan** (targeted at employees and at the entire airport community).

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