

TORINO AIRPORT BECOMES MORE SUSTAINABLE LARGEST PHOTOVOLTAIC SYSTEM ON THE ROOF OF AN ITALIAN AIRPORT STARTS OPERATING

- *When fully operational, the plant will produce 12% of the airport's annual electricity needs.*
- *Over 400 tonnes of CO₂ will be saved in one year, the equivalent of planting over 13,500 trees.*
 - *The installation is part of the Torino Green Airport programme.*

Caselle Torinese, 11 July 2023 – Torino Airport is taking a further step towards decarbonisation. Today Torino Airport inaugurated **the largest photovoltaic system ever installed on the rooftop of an Italian airport**. It consists of **3,651 modules** covering a **total area of 6,454 square metres** (roughly the size of a normal football pitch).

When fully operational, the new photovoltaic system will be able to generate **1,585 MWh of electricity per year**. With this size, the system will be able to meet **up to 12% of the airport's annual needs**, or **about 60% of its hourly consumption on a sunny day**.

Photovoltaic panels have been installed on the roof of the passenger terminal, on the roof of the Baggage Handling System (BHS) building and on the roof of a technical building.

The electricity produced by the solar plant will allow Torino Airport to **avoid the emission of 406 tonnes of CO₂ per year, the equivalent of planting 13,552 trees**.

With a lifespan of up to 40 years and a very high performance index, the photovoltaic modules installed are among the most efficient on the market. The modules are designed to produce 60% more energy in the same space over 25 years, offering high mechanical resistance to degradation and not causing glare.

The rapid construction and testing of the new plant was also made possible by Enac's role and commitment to the decarbonisation of the sector, and in particular by the recent guidelines issued by the authority, which simplified the administrative procedure for photovoltaic plants at airports and facilitated the approval process.

Elisabetta Oliveri, President of Torino Airport, commented: “With today’s inauguration, Torino Airport gives further concrete expression to its sustainability plan and confirms the SAGAT Group’s commitment to ‘Change is possible’. The inauguration of the new photovoltaic system marks an important step forward in the implementation of our business plan, of which sustainability and technological innovation are two fundamental pillars, together with the many other measures we are taking to mitigate the effects of climate change, confirming Torino Airport’s excellence in the field of sustainability”.

Andrea Andorno, CEO of Torino Airport, emphasised: “We are very proud to have realised this new infrastructure work, which marks the beginning of the airport’s journey towards self-sufficiency in energy. The new photovoltaic plant represents a further step in our commitment to reduce emissions:

this green energy, together with the growing fleet of airport vehicles and equipment that we are gradually electrifying, is part of a well-defined path of our green transition. We are pleased to be able to contribute to the sector's move towards zero emissions, and we are confident that the aviation industry as a whole will quickly follow suit".

Pierluigi Di Palma, President of Enac, said: "Today's inauguration represents a further step in the process of decarbonising the air transport sector. A path that involves all Italian airports and confirms Enac commitment to reconciling air transport and the environment. We are therefore fully implementing Enac mission to develop fair competitiveness while respecting the environment. Enac is making every effort to facilitate the simplification of authorisation procedures that will allow airports to move towards forms of decarbonisation, CO2 reduction and limitation of environmental impact".

The inauguration of the photovoltaic plant was also attended by the President of the Piedmont Region, Alberto Cirio, and the Councillor for Productive Activities of the City of Turin, Gianna Pentenero.

The new photovoltaic system **represents a step forward in the 'Torino Green Airport' roadmap** for environmental sustainability, which was launched in 2021 and includes all the measures already implemented by the airport, those currently underway and those planned for the future, with the aim of achieving zero emissions under its control well before the 2050 deadline.

Among the most important initiatives already underway are the replacement of the airport's ground handling vehicles with all-electric vehicles, enabling a **100% green turnaround** process, and the launch of an **electric ambulance**. Another important milestone in the 'Torino Green Airport' journey was the achievement of the **ACA-Airport Carbon Accreditation Level 3 'Optimisation'** environmental certification in 2022. Finally, as a partner in the European TULIPS project, dedicated to innovation for environmental sustainability in the aviation industry, Torino Airport has already installed a first photovoltaic system as part of a **smart grid** at the airport fire station.

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THE NEW PHOTOVOLTAIC SYSTEM IN FIGURES

3,651 photovoltaic modules
6,454 square metres of covered area
14 inverters
600 m of metal trunking
25 km of direct current cable
2 km of stainless steel pipes
6 km of alternating current cable
1 km of data cable
500 m of optical fibre
1,585 MWh of energy produced in one year
406 tonnes of CO2 avoided per year
13,552 equivalent trees

Torino Airport and external design team:

8 engineers
4 surveyors
3 industrial experts
15 specialised workers

Designers

Studio SysPro Engineering

The construction companies

ATI, consisting of All Energy & Architecture S.r.l. (Parent Company) and Mattioda S.r.l. (Agent)
Photovoltaic panels: SunPower brand, manufactured by Maxeon Solar Technologies
Inverters and Optimisers: SolarEdge

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