

# TONALI

## Energia & Ambiente

### Company Profile



Energy efficiency for buildings



Air sanitization in large environments

TONALI E.A. was born in 2019 from a multi-year synergy with BlackBox Green (group company). TEA provides integrated systems dedicated to **energy efficiency** and **environmental monitoring** for the protection of the territory and people.

Consume less and better energy for less pollution and greater savings. Sanitize large indoor environments, even high-risk ones (hospitals), to guarantee quality air and minimize the dangers of contamination from viruses, bacteria and gases.

Effective and efficient solutions, in real time, that combine the protection of people and the environment, sanitizing the air even in large, highly frequented spaces and saving energy in buildings.



**TONALI E.A.**  
Energia & Ambiente

# Energy savings: T BOX METEO

Tonali Energia & Ambiente has developed, proposed and installed **systems to make buildings more efficient by reducing the consumption of primary energy-intensive systems (electrical and thermal)** in various sectors, from banking (buildings and individual branches), to industry, public and private bodies, sports facilities, supermarkets, schools, condominiums... The efficiency of the proposed system and the resulting **economic savings** obtained are **objectively demonstrated** with the **T BOX METEO** by comparing the energy consumption (**Kwh/actual degree days** consumed by the systems) of our system with the existing one. How? With a methodology validated by the international **IPMVP** protocol issued by the EVO organization : **T BOX METEO** will be put into operation on alternate days with the previous system for (**Efficiency Valuation Organization**) an immediate and objective comparison for a period agreed with the customer..



T BOX METEO uses an international patent with which we have the possibility of having an extremely reliable geolocalized forecast, in real time and continuously. All this allows us to intervene on energy-intensive systems by optimizing their switching on and off according to the expected local weather conditions. Through a dedicated web platform it is possible to centralize all the data coming from the various installations of each individual customer (continuously and in real time). All with **a consequent lower environmental pollution**.

With this system, existing energy waste can also emerge: T BOX METEO is available to professionals who operate in the plant and energy sector of buildings, both public and private. With the use of T BOX METEO, you can also automatically obtain the **UNI EN 15603:2008 Energy Signature** of a building and therefore correctly carry out the Energy Diagnosis of the Building / Plant system.





# Some installations with T BOX METEO

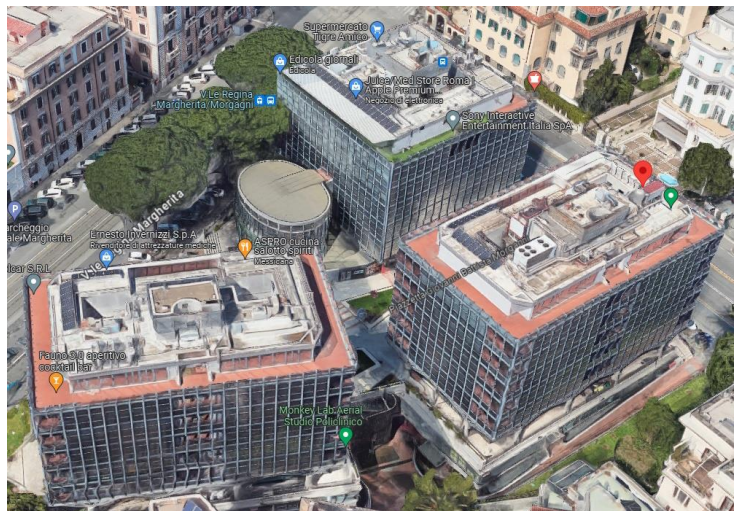


T BOX METEO system for energy saving and efficiency installed in a not recently built real estate complex located in Milan consisting of 2 buildings without the presence of BMS

Air-conditioned surface area roughly 5,850 m<sup>2</sup>

T BOX METEO system for energy saving and efficiency installed in a recently built real estate complex located in Rome consisting of 3 buildings equipped with latest generation BMS.

Air-conditioned surface area roughly 10.800 m<sup>2</sup>



T BOX METEO system for energy saving and efficiency installed at 3 sites located in Lombardy of a fast food chain, without the presence of BMS

Total air-conditioned surface area approximately 600 m<sup>2</sup> each site

Average savings achieved in various installations: from 20% to 30%



# Make the environment safe with sanitised air: T BIO-AIR and T BIO-GAS

TONALI E.A. offers **indoor environment sanitization systems** designed to **guarantee quality air and minimize the risks of contamination by viruses, bacteria and gases** that cause illnesses, pollution and bad odors. With the products **T BIO-AIR** (kills viruses and bacteria) and **T BIO-GAS** (specific for gases), we offer the market effective and certified advanced continuous cycle air purification solutions (approx. 4000 m<sup>3</sup>/h at air speed 3 m/s) for large environmentsi.



Emergency Room



Airport Boarding

The **T BIO-AIR** and **T BIO-GAS** air sanitization devices are equipped with photocatalytic air filtering systems by irradiation of white LED light (above 400nm and therefore without ozone production) on polycarbonate treated with titanium dioxide "activated in the visible". The decontaminating effects of the system have been certified by national and international research centers and laboratories including AIRMID HEALTHGROUP, BIOCHEME LAB, EUROFINS BIOLAB (ISO 17025 accredited laboratories).



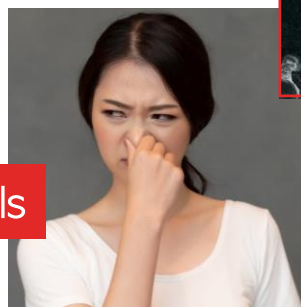
Pollution



Bacteria



Virus



Bad smells



**TONALI E.A.**

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