



BIOVITAE®

STREET

FOR CLEANER AIR

Biovitae Street is an innovative outdoor lighting system installed on public light poles that reduces pollutants in the air.

It **reduces air pollution** through a photocatalysis reaction that exploits the combination of the **Biovitae** lighting system and **Titanium Dioxide Rutile** (TiO₂ rutile). The device reduces pollutants in the air both during the day, using sunlight, and at night thanks to the LED light frequencies of the Biovitae strip integrated in the device.

The BIOVITAE + TiO₂ system transforms microorganisms responsible for internal and external pollution rendering them harmless.

Experiments have shown that 1,000 square meters of photo-catalyzed surface is able to treat 480,000m³ of air in about 24h.

A **Biovitae Street** stand with 100 flanges of size 20x20 develops a total active area of 8sqm on both sides and therefore can treat 3,840m³ of air every day (24h).

10 street lamps with 2 **Biovitae Street** units (the number of supports may vary according to need) can treat about 76,800 m³ of air, which corresponds to a football field of 10 meters in height.

