TREETINO

A tree that generates a large amount of renewable energy on a built-up area of 1 m².

TREETINO – a smart “energy tree” that combines technology and nature to generate clean energy in cities. The futuristic design saves space and promotes sustainable energy. TREETINO uses a patented winding system, 300 solar blades and silent wind turbines to produce energy from the sun and wind simultaneously. It occupies only 1 m², but replaces a 400 m² photovoltaic array and can power up to 60 homes with an output of 49 kW. Thanks to AI and blockchain, the trees communicate with each other, optimising production by up to 30%, enabling predictive maintenance and storm protection. Control is provided by an intuitive mobile app. TREETINO brings a new era of elegant urban energy.

Unique Selling Points:

- It maximises energy yield in a minimum area and saves up to 700 m² compared to conventional solar arrays.
- It combines solar panels and wind turbines to produce energy from the sun and wind, even at night.
- AI and blockchain increase efficiency by up to 30% and enable predictive maintenance. Futuristic design fits the urban environment and saves space.
- Quiet and transparent turbines allow for undisturbed integration in the city.

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Product

Futuristic hardware with innovative software

Technology readiness

- Development
- Proof of concept
- Prototype
- First implementation
- Extensive implementation