



More efficient energy solutions for smart cities

(Portugal, 7th February 2023) At a time when energy transition is a central issue on the international agenda, municipalities, companies, and populations join efforts for more sustainable use of resources, aiming to reduce the emission of greenhouse gases and ensure the energy security of the country. Correct urban planning and implementing policies aimed at energy sustainability, such as installing renewable energy equipment in public and private buildings, promoting electric and smooth mobility, and creating intelligent energy distribution networks, are considered fundamental for greater efficiency.

The increase in population density in urban centres causes energy consumption to soar, making it increasingly necessary to reduce dependence on traditional sources and invest in cleaner energies. Companies and municipalities are developing solutions to achieve greater energy efficiency through renewable energies, such as solar energy and advanced storage technologies.

Municipalities promote concrete measures for more sustainable cities by creating electric charging stations for cars and public transport to create a mobility alternative, as greener and more environmentally conscious options.

Through British startup Mixergy, EDP Ventures has invested 1.7 million euros in developing an innovative technology that, using advanced artificial intelligence techniques, provides significant savings in water heating, efficiently uses solar energy, and optimizes the management of available resources.

Joper, an agricultural and industrial equipment company, has started its decarbonization process by installing a photovoltaic power plant. In a partnership with Helexia, a photovoltaic energy production system was implemented for self-consumption that already produces about 40% of energy, which allows reducing energy costs and shows a solid commitment to sustainability.

In Seixal, the municipality is investing in a municipal public lighting plan to reduce energy consumption and greenhouse gas emissions, which includes the replacement of more than 6,000 lamps and the identification of faults in lamp posts throughout the municipality. In addition, the City Council will install electric vehicle charging stations throughout the municipality, and promote, among the population, test drives in partnership with companies in the sector to demonstrate the benefits of electric mobility.

In Pinhal Novo, the first photovoltaic park in Portugal was inaugurated as part of [Voltalia's Garrido Complex](#), composed of five solar plants. With an investment of 11 million euros, the park has an installed capacity of 11.8 MW and around 22,000 solar panels. The estimated annual production is 24.3 GW, enough to supply nearly 20 thousand people. With the energy generated by this solar park, a yearly reduction of 6,400 tons of carbon emissions is estimated.

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