

2015 French Engineering Prize: Wind-it wins the Industry & Technology consulting Prize for its telecommunication tower incorporating vertical axis wind turbines.



The French Engineering Prize awards engineers for the quality of conception and conduct of outstanding projects in terms of innovation and creativity. This competition is organized by Syntec, the French professional federation of the engineering sector, with the support of several French ministries.

The 2015 edition of the Industry & Technology consulting Prize was won on October 14th by Wind-it for its autonomous power tower for mobile telephony. The Wind-it technology integrates multiple vertical axis wind turbines in a high-rise exostructure specifically designed to handle this load.

This technology is the result of intensive R&D efforts: structural, aerodynamic and mechanical engineering, 2- and 3-dimensional numerical simulations and wind tunnel model tests. A 50-meter-high prototype (see photo), incorporating three vertical axis wind turbines, is in service for testing and optimization since early 2015.

The innovation, that can be coupled with a mini solar installation, avoids the use of the expensive traditional solution of diesel generators. The Wind-it tower can be dimensioned to produce energy surplus, thus contributing to local electrification by providing a robust mix of renewable sources.

Wind-it includes several patents that make it radically innovative compared to existing towers, wind turbines and renewable multi-source power systems. These innovations affect the structural architecture of the tower, as well as the architecture of the wind turbines and the regulation of their energy production

About:

Wind-it SAS is a French start-up, launched in 2014, whose purpose is to provide energy supply solutions for isolated or nearly isolated sites, especially for mobile phone towers. Its first product is a telecommunication tower incorporating vertical axis wind turbines. Wind-it shareholders are Egis Group, an engineering company and international infrastructure subsidiary of Caisse des Dépôts; Elioth, design office specialized in complex structures and innovative systems for energy and environment; DFI Telecom, specialized in telecommunication towers; and Ergos Energy, a consulting company specialized in the energy sector.

More information: www.wind-it.fr

Press Release



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