

Paris, October 14th 2015

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



The French Prize for Engineering awards engineers for the quality of the conception and the managing of outstanding projects in terms of innovation and creativity. This competition has been organized by Syntec, a professional federation in 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 electrically autonomous pylon for mobile telephony. The Wind-it technology is to integrate 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 digital simulations and wind tunnel tests on a model. A prototype of 50-meter-high (see photo), incorporating three vertical axis wind turbines, is in service for testing and optimization since early 2015.

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

Wind-it includes several patents that make it totally innovative compared to existing towers, to wind electrical generation and to renewable resources management solutions (sun, wind and micro-storage). 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 relay. Its first product is a mobile telephony 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

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