

VirtuWind on Mobile World Congress

VirtuWind cordially invites you to meet and discuss the projects objectives and achievements with Industrial and Academic Project Partners at

The European Pavillion

European Commission

Mobile World Congress
Barcelona, Spain
Hall Congress Square Stand CS74 Government and Regulatory

VirtuWind – A European Project

“A critical component of Europe’s Energy growth plan is Green Wind Energy. One of the biggest challenges is delivering this clean energy at an attractive price. **The key is networking, networking between turbines, between wind parks and control centers across Europe.** Building upon the latest industry SDN* and NFV* methodologies, VirtuWind will standardize a fit-for-purpose Energy networking infrastructure to minimize Capital Expenditure and Operational Expense while providing an industry accepted platform for innovation and further development bringing Europe to the center of Energy innovation.

Today, many isolate control centers are deployed across the mostly unconnected windparks. VirtuWind proposes radical changes via innovative application of SDN & NFV. Simplified installation, operation and maintenance via centralized, high available and secure control are key unique deliverables of this project.”

VirtuWind has received funding from the European Union's Horizon 2020 research and innovation program H2020-ICT-2014/H2020-ICT-2014-2, under grant agreement No. 671648.

VirtuWind Show Case on Mobile World Congress

VirtuWind will demonstrate the technical project objectives with a hardware setup. Therefore, a wind turbine model is operated via an industrial control system that operates on SDN* equipment. By example of a video surveillance, data stream problems related to industrial QoS* are demonstrated and the solution VirtuWind offers, is explained.

VirtuWind has dedicated tasks for intra- as well as inter-domain security aspects. The VirtuWind architecture enables end-to-end SDN by covering northbound interface, southbound interface and inter-domain interface. The major objective of VirtuWind is to guarantee industrial-grade QoS and to provide means for inter-domain SLA management.

VirtuWind enables the innovative step to bring SDN and NFV into industrial world. Thus, also enabling the new way of managing industrial networks to make Europe a leader in QoS-enabled SDN & NFV.

About the EU Pavilion

The EU pavilion offers the opportunity to know more about what the European Commission is doing to support the development and uptake of network technologies in the European economy and society.

In addition to opportunities to meet EC officials and partners, a series of demonstrations, workshops and presentations will be organized on the following themes: 5G research, 5G for verticals, 5G public-private-partnership, Alliance for Internet of Things Innovation, Smart Mobility, Smart Cities, EU policies for the Digital Single Market.

VirtuWind Contact Information

VirtuWind Project Management

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*SDN - Software Defined Networking

*NFV - Network Functions Virtualization

*QoS - Quality of Service