



UMBRELLA, iTESLA, GARPUR projects: R&I activities by TSOs in line with ENTSO-E roadmap

Workshop with Regulators

Opening Introduction




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Ljubljana (ACER premises), 30 June 2014























Purpose of this workshop

- To describe some of the R&I activities performed by TSOs and academia, and linked with the reliability of power transmission systems
- To make ACER and NRAs aware of the potential impacts of these projects on network codes
- To gather the regulators feed-back and inputs
- To initiate periodic meetings with ACER and NRAs to provide :
 - Updates on intermediate and final results obtained with the support of EC funding
 - Recommendations for practical collective implementations of some of the most promising findings


UMBRELLA, iTESLA and GARPUR projects in figures

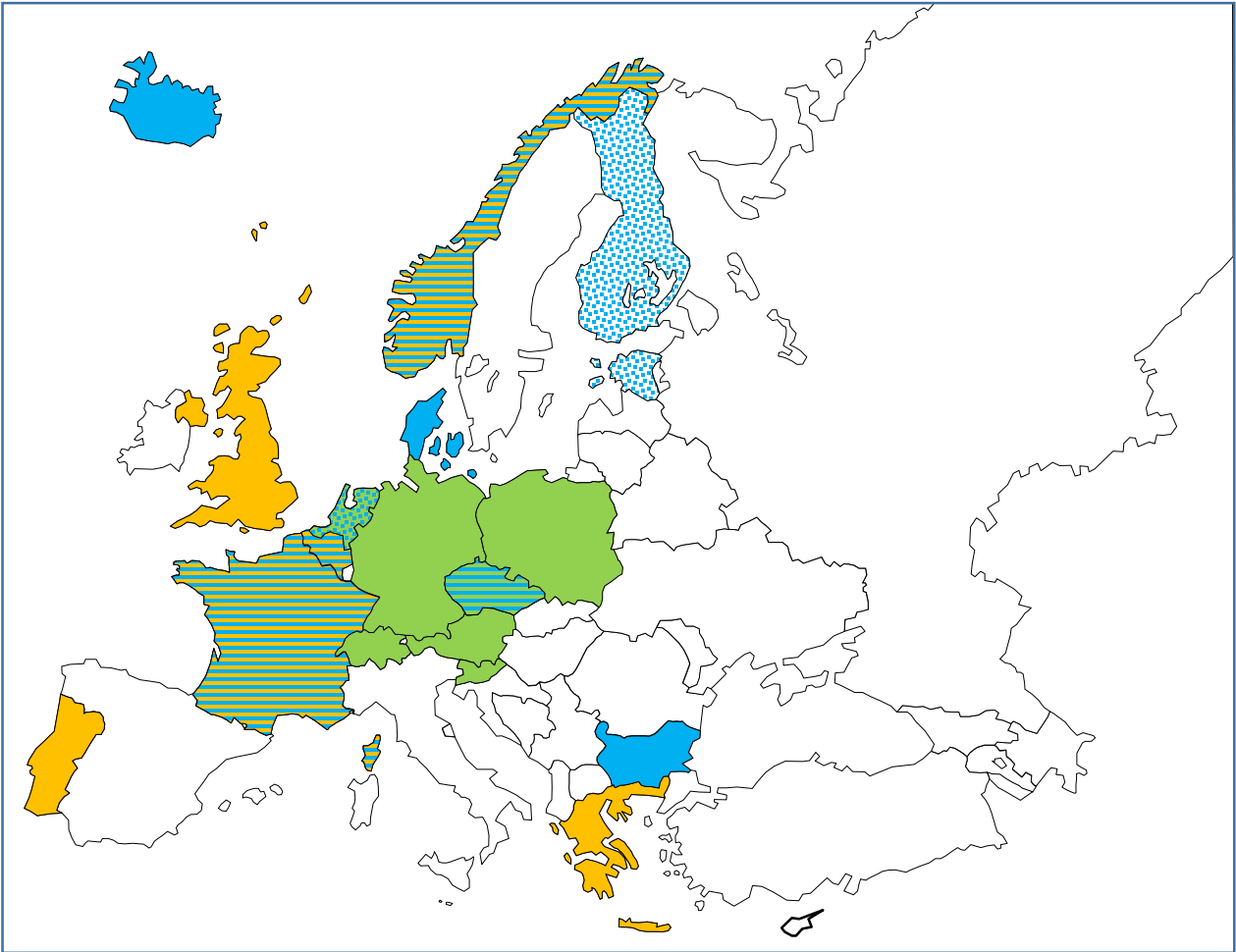
Project	 Umbrella Project	 iTesla Innovative Tools for Electrical System Security within Large Areas	 GARPUR
Purpose	Toolbox for Common Forecasting, Risk assessment and Operational Optimisation in Grid Security Cooperations of TSOs	Innovative Tools for Electrical System Security within Large Areas	Generally Accepted Reliability Principle with Uncertainty modelling and through probabilistic Risk assessment
Budget	5.3 M€ (EC grant 3.9 M€)	19.4M€ (EC grant 13.2 M€)	10.9 M€ (EC grant 7.8 M€)
Duration	4 years Jan. '12 → Dec. '15	4 years Jan. '12 → Dec. '15	4 years Sept. '13 → Aug. '17
No of partners	15 (incl. 9 TSOs)	20 (incl. 6 TSOs and 1 CC)	20 (incl. 7 TSOs)

TSO involved in UMBRELLA, iTESLA and GARPUR projects: 17 TSOs + 1 CC

European coverage of the 3 projects

-  TSOs in UMBRELLA
-  TSOs in iTESLA
-  TSOs in GARPUR
-  TSOs in GARPUR Reference Group



Outline of today's workshop

- 14:45** **Presentation of UMBRELLA and discussion**
Jan Kostevc, ELES
- 15:30** **Presentation of iTESLA and discussion**
Gabriel Bareux, RTE
- 16:15** **Presentation of GARPUR and discussion**
Gerard Doorman, Statnett
- 17:00** **End of meeting**