

2nd MIGRATE Stakeholder WORKSHOP

More power electronics into the grid: Innovative solutions for operations and impacts on grid codes

28th March 2018, Brussels

ENTSO-E premises, Avenue de Cortenbergh 100

The challenge

By 2020, more and more generators interfaced with power electronics - mainly wind and solar electricity generators - will be connected to the electricity network, with significant impacts on the European transmission system such as growing dynamic instability and power quality issues. To ensure a safe transition towards a grid with massive power electronics integration, new recommendations and solutions are required - new technologies and control strategies - leading on the long term to an evolution of grid codes.

The MIGRATE project

MIGRATE gathers twelve TSOs from eleven countries together with manufacturers and researchers to develop innovative solutions for the secure transition towards an upcoming network operation with a high penetration of power electronic devices.

Why attending this workshop?

MIGRATE plans to propose also recommendations on how grid connection rules should evolve to enable the actual implementation of the innovations developed. Two years after the project start first results will be presented and an outlook for the next two years will be demonstrated. **This workshop is your opportunity to stay in touch with the project in order to get the latest information and to interact with your community** (industry, consumers, etc.) to make sure that the proposed deployment of solutions and grid code evolutions will be technically and economically realistic.

Please register by following this link: [Registration form](#)



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WORKSHOP AGENDA

Time	Session	Speaker
10.30	Workshop introduction Welcome and short summary of the first two project years	Hannes Munzel, TenneT
10.45	'Roundtable' with the audience <i>What are your expectations about the project outcomes?</i>	Audience
11.00	Increasing PE penetration in today's grid <i>Strategies to mitigate power stability issues</i>	Sven Rüberg, TenneT
11.30	Real time monitoring and control in tomorrow's grid <i>Demonstrating technological solutions for real time monitoring, forecasting and control</i>	James Yu, SPEN
12.00	Operating a network with 100 % PE penetration <i>New control algorithms and management rules to operate a network with 100 % PE</i>	Thibault Prevost, RTE
12.30	Wrap up of morning session and discussion	Animated by Hannes Munzel, TenneT
12.30	<i>Lunch break</i>	
14.00	System protection strategies under high PE penetration <i>Development of new protection schemes under high PE penetration</i>	Santiago López Barba, REE
14.30	Power quality in transmission grids <i>Proposed methodology and numerical models which can be used by TSOs to assess PQ issues in future</i>	Jaka Žvab, ELES
15.00	MIGRATE results & Industry and Associations involvement <ul style="list-style-type: none"> ▪ <i>Forecasted project results and next dissemination actions</i> ▪ <i>Discussion: how to best interact with the power system stakeholders directly impacted by MIGRATE?</i> 	Clémentine Coujard, Eric Peirano TECHNOFI
15.30	Wrap up, discussion and conclusions (+ questionnaire)	Animated by Hannes Munzel, TenneT
16.00	End of workshop	

