



Exploring solutions for the massive integration of Power Electronics into transmission networks

**Side event to CIGRE Session 2018**  
**Wednesday 29<sup>th</sup> August, 4:00 – 7:00 pm**  
Organised by the MIGRATE consortium

**Proliferation of power electronics into the grid:**  
Mitigation of power stability issues & power quality disturbances;  
solutions for a 100% PE network

The European Union promotes a more reliable, more sustainable and more affordable energy system. By 2050 more than 80% of our energy shall be provided by renewable energy sources (RES). The already increasing share of power electronics devices from RES interfaces drastically changes the behaviour of the electrical system, making it far more complex with a mixture of fast-acting devices and of automatic operation.

**New issues, faced worldwide by TSOs and DSOs, appear or will appear: decrease of inertia, new controller interactions...** Large changes will be necessary in the coming years to ensure robustness and stability of the future transmission grid.

Within the [MIGRATE](#) project funded by the European Commission under Horizon2020 programme, twelve European TSOs together with twelve academic partners are investigating the challenges to overcome in order to support the green transition in an understandable and cost-effective way.

The MIGRATE Consortium kindly invites its international colleagues to exchange and share knowledge during an open workshop on **Wednesday 29<sup>th</sup> August, 4:00 – 7:00 pm, at [Le Méridien Etoile hotel](#), 81 Boulevard Gouvion Saint-Cyr, 75017 Paris, France.**

**Presentations of the preliminary results and discussions will focus on:**

- Allowing an increased penetration of power electronics in today's grid through mitigation strategies tackling power stability issues;
- Concepts and solutions for a network with 100% power electronics;
- Mitigation measures to deal with power quality disturbances.

The 90 mn presentation will be followed by a collective discussion and a cocktail.

**Limited seats available - registration is required: [please register here.](#)**