

TENTATIVE EVENT AGENDA

Moderator: Prof. Peter Vaessen, DNV GL / TU Delft

Time	Session
09:30 – 10:00	Walk In & Registration
10:00 – 10:15	EU energy policy <ul style="list-style-type: none"> • How power electronics impact the energy domain – <i>Mario Dionisio, European Commission</i>
10:15 – 10:30	Future of power systems <ul style="list-style-type: none"> • Overview MIGRATE • Overview PROMOTiON
10:30 – 11:45	Change in system inertia <ul style="list-style-type: none"> • Introduction & Expectations of the audience • MIGRATE WP1 & WP2: How does inertia change and what is impact on existing power system • PROMOTiON WP 2 & 4: What impact does changing inertia have on offshore HVDC power system • Wrap Up & Discussion
11:45 – 12:00	Coffee Break
12:00 – 13:15	Control and operation of no or low inertia grids <ul style="list-style-type: none"> • Introduction & Expectations of the audience • PROMOTiON WP 3: Offshore windfarm grid forming & black start capability • MIGRATE WP 3: Operating a system with 100 % power electronics • Wrap Up & Discussion
13:15 – 14:00	Lunch Break
14:00 – 15:15	Power Quality <ul style="list-style-type: none"> • Introduction & Expectations of the audience • PROMOTiON WP 16: Modelling and validation of inverter harmonics • MIGRATE WP 5: Impact of harmonics on future converter dominated power system • Wrap Up & Discussion
15:15 – 15:30	Coffee Break
15:30 – 16:45	Regulation & grid codes <ul style="list-style-type: none"> • Introduction & Expectations of the audience • MIGRATE WP 6: Impact of the project results and recommendations for the future power system • PROMOTiON WP 2, 3 & 11: recommendations for offshore HVDC grid inverter interfaces • Wrap Up & Discussion
16:45 – 17:00	Closing Remarks
17:00	End of Event

Technical challenges and recommendations for the future European power grid

Joint MIGRATE & PROMOTioN workshop

Thursday 28th February 2019, 10:00 am – 05:00 pm
Maritim Hotel, Stauffenbergstraße 26, 10785 Berlin

Maintaining security of supply whilst integrating large quantities of renewable energy is the main challenge for the future European power grid. System stability and reliability are therefore of the utmost importance. The two EU funded 'Horizon 2020' projects **MIGRATE** and **PROMOTioN** are investigating these future challenges to power grids, both on- and offshore, and provide solutions and recommendations on how to shape the energy future of Europe.

The MIGRATE and PROMOTioN consortia are pleased to invite you to their first joint workshop and discuss the following topics with you:

- the changes in system inertia
- the control and operation of no or low inertia grids
- power quality issues
- regulation & grid codes

The presentations by members of the respective project consortium will be accompanied by an open discussion. We'd like to highlight the **interactive character of each session**, which strongly relies on your individual experiences and views on the subjects.

In parallel to the workshop discussions, TenneT is offering the possibility to use the **virtual reality station** which provides a unique and interactive insight into the work and future challenges from the perspective of a European transmission system operator.

Space at the venue is limited and will be offered on a **first-come-first-served** basis. Please make sure to limit the number of **attendees per institution** to three. There is **no cost** for attendance.

Register [here!](#)

About the projects

MIGRATE is a European project supported by the EC and coordinated by TenneT. Gathering TSOs from 11 countries together with manufacturers and researchers, this 4-year project explores innovative solutions to handle the forthcoming massive integration of power electronics into transmission networks. Solutions will include the use of new monitoring & forecasting technologies, the development of new control strategies and protection schemes as well as mitigation measures to tackle power quality issues. The operation of 100% power electronics networks will also be investigated.

PROMOTioN is a European project supported by the EC under the framework Horizon 2020. As the biggest energy project in the Research Program, the project consortium chaired by DNV GL includes 33 partners from 11 countries. Launched in January 2016, PROMOTioN aims to explore and identify potential benefits in financial, technical and environmental matters. The main objective of PROMOTioN is the further development and demonstration of four key technologies: multi-vendor HVDC (high-voltage direct current) grid protection systems, HVDC network control systems, long duration testing of HVDC GIS (gas insulated switchgear) and full power testing of HVDC circuit breakers.

For more information:

<https://www.h2020-migrate.eu>

<https://www.promotion-offshore.net/>

Our Mediapartner: [TAGESPIEGEL BACKGROUND, Energie & Klima](#)