



## NEWSLETTER

June - July 2023

The **READY4DC Project**, supported by [Horizon Europe](#), will create and engage a community of experts that will assess and give recommendations on the major technical and legal aspects of designing and building an interoperable multi-vendor DC grid. One major objective will be to prepare the ground for the development of the first multi-terminal, multi-vendor HVDC project in Europe.

### WORKING GROUP 2 LUNCH WEBINAR



#### New proposal on standard essential patents: does it complicate reaching a HVDC standard?

A [new proposal](#) by the European Commission changes significantly the regulation of standard essential patents (SEPs) in the EU. These are patents claiming an invention that must be used to comply with a technical standard.

Join us on 11 July at 12:30 CEST for a 45-minute lunch webinar. Vincent Lakerink and Ceciel Nieuwenhout, from the University of Groningen, will look at the highlights of the proposal such as the enforcement of SEPs, determining essentiality and new rules on Fair, Reasonable and Non-Discriminatory (FRAND) determination. Speakers will also consider what this new proposal means for the HVDC sector and the future of interoperable HVDC grids.

Register [here](#)

### READY4DC 2<sup>ND</sup> STAKEHOLDER ENGAGEMENT EVENT: THANK YOU FOR PARTICIPATION!



On 3 May more than 70 participants took part in READY4DC's second online stakeholder engagement event where project partners presented two White Papers.

Did you miss the event? You can read the event report [here](#). If you want to access the recording of the event and download the presentation, click [here](#).

#### WHAT'S NEXT?

READY4DC will officially come to an end in September 2023. Our experts will give a roundup of the project and the findings of the final White Papers during the [CIGRE B4 Colloquium](#) - an international conference focusing on DC systems and power electronics - in Vienna from 11-13 September.

We look forward to seeing you in Vienna!

### UPDATES FROM OUR WORKING GROUPS

#### Working Group 1 "Modelling and Simulation framework and data sharing for High Voltage Direct Current (HVDC) interaction studies and large scale Electro-Magnetic Transient (EMT) simulation"

There are several challenges potentially arising from multi-frequency interactions between power electronic devices manufactured by different vendors. Our first White Paper "Modelling, Simulation Framework and Data Sharing for Multi-Terminal Multi-Vendor HVDC Interaction Studies and Large Scale EMT Simulations" gives an assessment of the trade-off between risk of interactions and risk of Intellectual Protection disclosure when designing a framework for interaction studies in an MTMV context.

We have received positive feedback from the experts behind [InterOPERA](#), an EU-funded project aiming to make future HVDC systems mutually compatible and interoperable by design, paving the way for the first multi-vendor demonstrator. InterOPERA will address similar aspects of HVDC interaction studies, and the feedback received confirms that our White Paper is comprehensive enough to serve as a foundation for InterOPERA's alignment with basic terms and definitions.

The final White Paper will be published in September. But we are still looking for feedback, insights and suggestions. Click [here](#) to read the full paper.

If you want to send us your feedback or for more information, contact [William Leon Garcia](#)

#### Working Group 2 "Legal Framework for the Realization of a Multi-vendor HVDC Network"

We published a White Paper on the legal and regulatory aspects of an MTMV HVDC grid, the gaps and possible directions for solutions, available [here](#).

The paper considers the cooperation between different parties, the road to standardisation and the division of liability and responsibility. It also recommends the development of a cooperation framework agreement between the different parties involved in HVDC projects, as well as specific rules, that can be used in tender processes. We are working closely with expert from the InterOPERA project, who are developing these agreements and contracts.

We are continuing to collect input from different stakeholders to finalise the paper, which we will publish in September.

For more information about WG2, contact [Ceciel Nieuwenhout](#).

#### Working Group 3 "Multi-vendor Interoperability Process and Demonstration Definition"

We are working on the final White Paper on the "Multi-vendor Interoperability Process and Demonstration Definition" to create a common understanding between stakeholders on relevant definitions. Currently there is neither a clear definition of the concept of interoperability for HVDC, nor a commonly agreed topology for the first MTMV demonstrator. This White Paper sheds some light on these definitions, which are key to the future development of large HVDC grids in Europe.

The first part of the paper lays out guidelines on how to link the demonstration project to the European transmission grid. It lays out the benefits and risk mitigation options for a demonstration project. It also looks at defining the selection criteria for the first MTMV demonstrator, the selection of potential candidate projects, and the procedure for selecting functional specifications.

The second chapter is about the planning process of the first MTMV HVDC demonstrator project - from a first set of basic specifications to commissioning - and it will also lay out a timeline of key project milestones based on the experience and input of the relevant stakeholders.

Finally, the paper will give an overview of how to deploy a meshed DC grid across Europe.

We're still looking for your feedback! Make sure to get in touch with [Nico Klötzel](#).

#### Working Group 4 "Framing the future European Energy System"

MTMV HVDC technology will be crucial for the energy system's transition to climate neutrality but for this we will need large-scale demonstration projects requiring significant investments.

Last April we published our White Paper "How to unlock investments for the first full-scale multi-vendor HVDC systems demonstration" calling for a €520bn investment in HVDC components and systems in order to integrate the EU's offshore wind generation targets.

The paper also looked at sources of funding for a first-of-its-kind (FOAK) demonstration project, and what non-financial barriers need to be addressed to get the go-ahead.

Check out the whitepaper [here](#).

During the last phase of the project, our focus is shifting from FOAK demonstration projects to a long-term vision of the role of HVDC technology and DC grids in the European energy system. Two key whitepapers on this topic will be published in September. Stay tuned!

If you want to contribute to our efforts, contact [Ilka Jahn](#).

### GET IN TOUCH

To get the latest news on the project you can subscribe to the mailing list by clicking [here](#).

And to subscribe to the project expert working groups or for any more info, [contact us!](#)

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.



[Update your profile](#)

[Update your preferences](#)

[Unsubscribe from all WindEurope emails](#)

© 2023 WindEurope asbl/vzw