

# POST EVENT REPORT

## GCC Power 2021

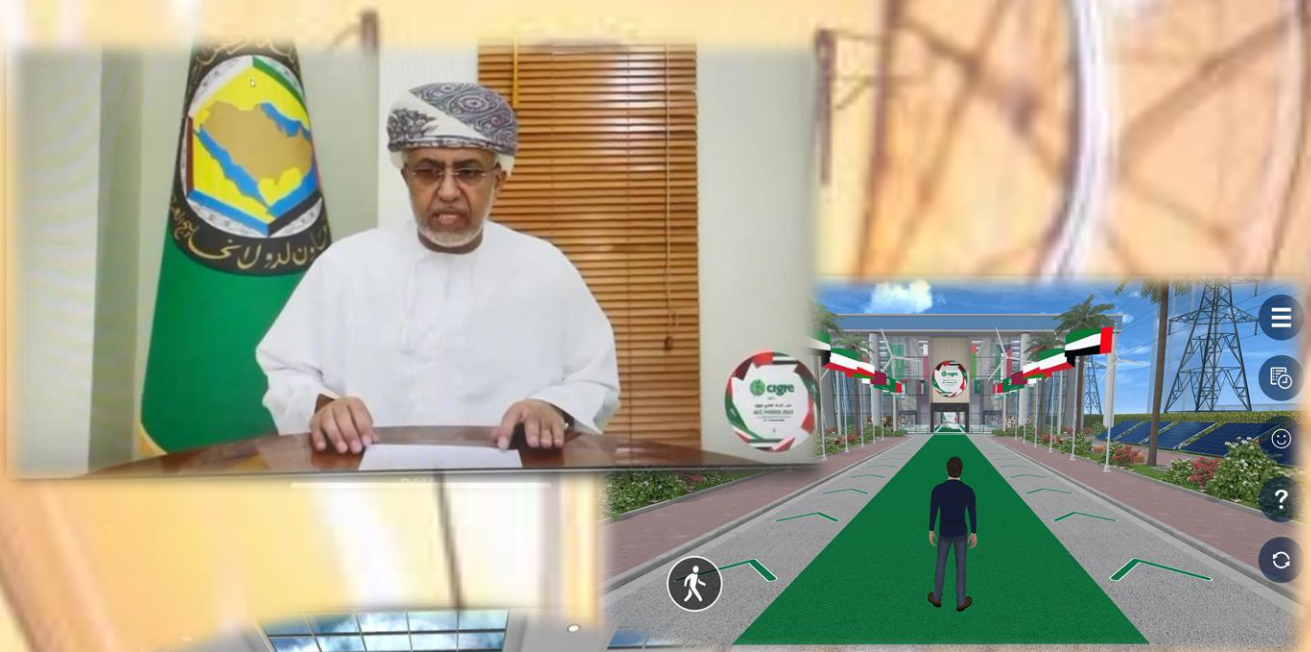


**GCC CIGRE'S 2<sup>nd</sup> INTERNATIONAL  
E-CONFERENCE AND EXHIBITION  
25<sup>th</sup> -27<sup>th</sup> October 2021**



# GCC CIGRE'S 2<sup>nd</sup> INTERNATIONAL E-CONFERENCE AND EXHIBITION 25<sup>th</sup> -27<sup>th</sup> October 2021

- **GCC POWER 2021**, a high octane event focused on power and energy industry successfully concluded on **25<sup>th</sup> - 27<sup>th</sup> October 2021** in a virtual space.
- The show was crafted to consistently meet the needs of the sector and enable professionals to continue their business dialogue, engagement and provide them with feasible solutions.





## KEY HIGHLIGHTS



**407**  
**VIP/DELEGATES**



**3015**  
**Visitors**



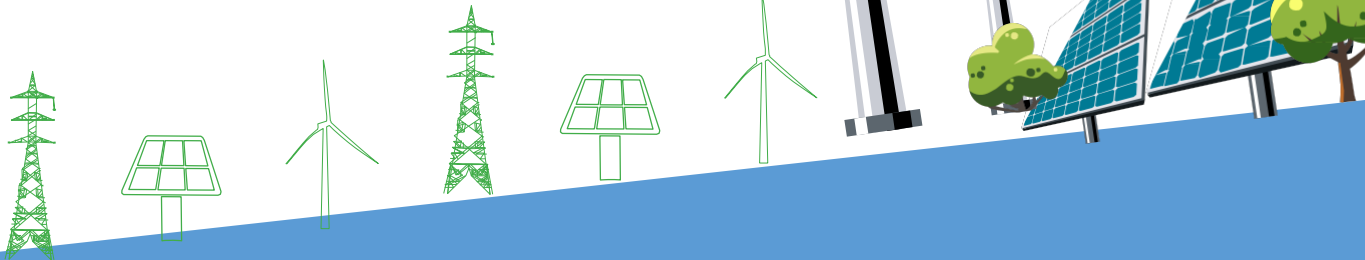
**5094**  
**Exhibition Interactions**



**84**  
**Speakers**



**1518**  
**Calls/Chats**





GCC Power 2021 had one of the most power packed virtual conference sessions which ran concurrently for two consecutive days from 25<sup>th</sup> to 27<sup>th</sup> of October.

The e-conference brought together the officials and decision makers from the Electricity Sector of the GCC countries to communicate and exchange their views along with jointly plan with the leading Local, Regional and International Consultants, Manufacturers, Contractors and Suppliers about the future of Electrical Power in the region.



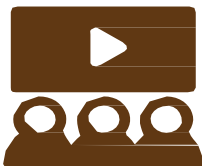
**22**  
Posters



**2**  
Auditoriums



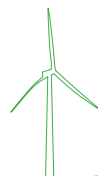
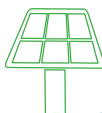
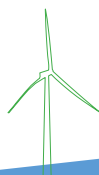
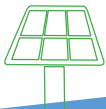
**59**  
Researches



**2**  
Tutorials



**14**  
Sessions



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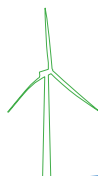
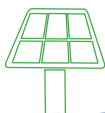
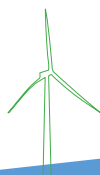
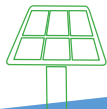
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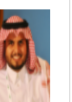
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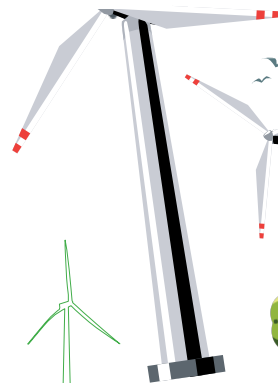
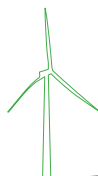
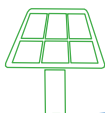
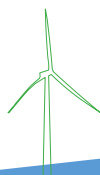
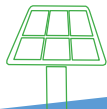
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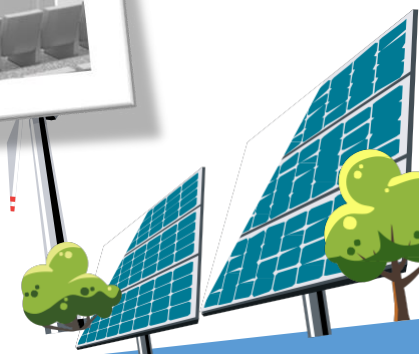
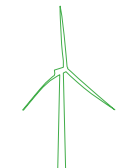
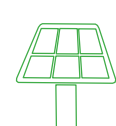
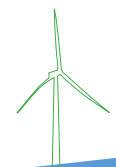
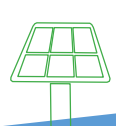
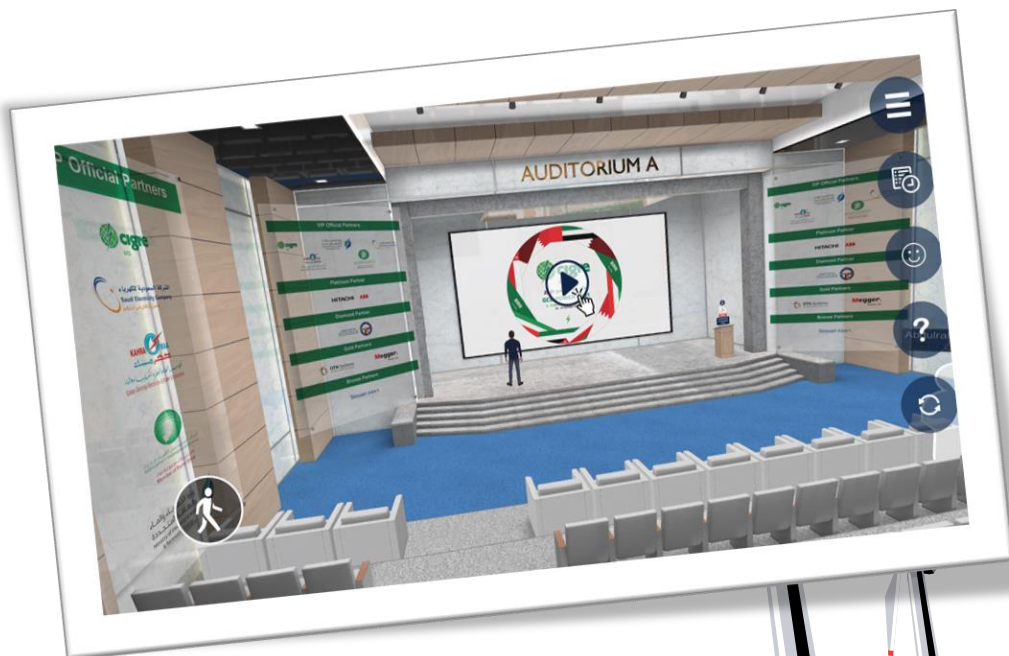
TenneT



**Dr. Willem Leterme**

Company

Ku Leuven







### Droop Control Scheme for Interlinking Converter (IC)

#### Normalization of Droop Variables (Wide-Area Frequency and DC Terminal Voltage) to Common Per Unit Range

- The control scheme implemented in IC is shown in Figure-5, where the control of each individual IC consists of Two-DP Parts i.e. Normalization and Current Controller.
- The  $\omega$  and  $\phi$  are measured, stabilized, and quadrature of the filter, respectively. The DOs and IC are modeled as the controllable voltage sources.
- The IC voltage  $v_{dc}$ , current  $i_{dc}$ , and the voltage at the terminal of DC subgrid (DCS) is  $v_{dc}$ . For the IC, output voltage at the AC subgrid (ACS) terminal is  $v_{ac}$  and the output current is  $i_{ac}$ .
- Signum  $s_{d,q}$  and  $s_{d,q}$  are the d-axis and q-axis IC output current references, respectively. A three-phase phase-locked loop (PLL) method is used to measure the operating frequency of IC and synchronization angle  $\theta$  is used to transform into stationary frame to d-q rotating frame.

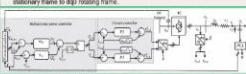
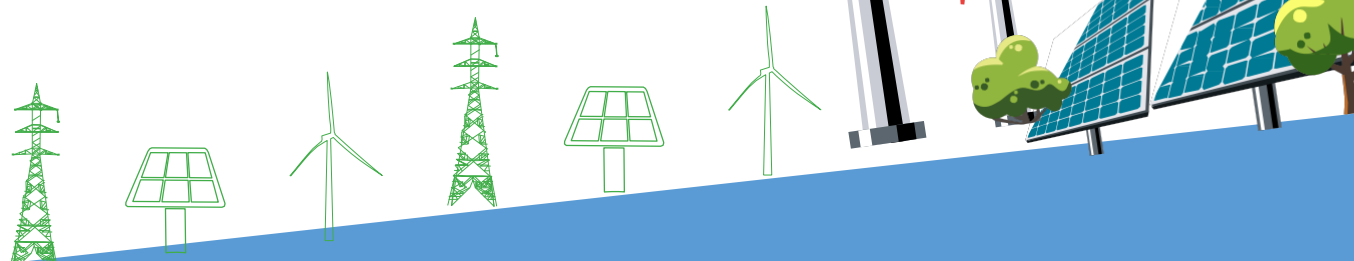


Figure-5: Diagram of the Droop Control Scheme for Interlinking Converter (IC)

GCC POWER 2021  
Date: 26<sup>th</sup> October, 2021

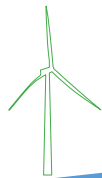
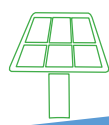
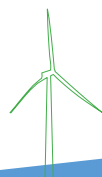
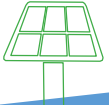
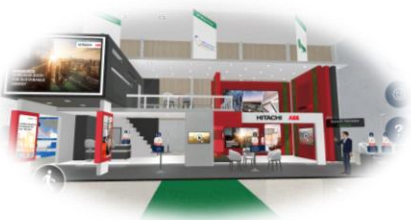
Ref:IC-17/P-DS-1345/2021

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# GLIMPSES



THANK YOU PARTNERS



**HITACHI**

**ABB**



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