



# مؤتمر كهرباء الخليج 2023 GCC POWER 2023

13 - 15 November, Abu Dhabi, UAE

## POST SHOW REPORT

Power Sponsor:



Diamond Sponsor:



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## EVENT DETAILS

## EVENT DETAILS

The GCC Regional Committee for Large Electric System (GCC CIGRE) is a regional organization affiliated with the International Council for Large Electric Systems (CIGRE). It focuses on addressing issues related to electric power systems, including generation, transmission, and distribution. The committee encourages active participation from engineers and scientists working in the electric power sector in the GCC states. Established in 1985 at the recommendation of GCC Ministers for Electricity & Water, the committees by laws were formulated in collaboration with the CIGRE Secretary General. The suggested bylaws were approved during the third meeting of GCC Electricity & Water Ministers in 1986 in Riyadh, K.S.A.

This year marked the 19th Edition of CIGRE GCC Power took place at ADNEC between the 13th and 15th of November, 2023. With 18 sessions, 15 Sponsors and 17 Exhibitors, the collective audience attendance was 1,525 visitors across 3 days.

This report will give a detailed breakdown of the event.

GCC POWER CIGRE 2023



The background is a solid green color with a subtle pattern of light green circuit lines and dots, resembling a printed circuit board (PCB) layout. The lines are horizontal and vertical, with some diagonal segments, and the dots are small circles placed at various points along the lines.

# **BOARD MEMBERS**

# BOARD MEMBERS



HE / Dr. Mohammad Falah Al Rashidi

GCC CIGRE Board member and Representative of the GCCGS

State of Kuwait



HE / Eng. Abdul Aziz Al Hammadi

GCC CIGRE Board Member and Secretary General of GCC CIGRE

State of Qatar



HE / Eng. Ahmed Ali Al-Ebrahim

GCC CIGRE Board Member and Chairman of the Technical Committee

Kingdom of Bahrain



HE / Eng. Mohammed A. Al Muaili

GCC CIGRE Board Member

Kingdom of Saudi Arabia



HE / Eng. Mohamed Al-Shaikh

GCC CIGRE Board Member


Kingdom of Bahrain



HE / Eng. Abdulrahman Ibrahim Alshabnan

GCC CIGRE Board Member

Kingdom of Saudi Arabia



HE / Eng. Abdulla Al Khomeiri

GCC CIGRE Board Member


United Arab Emirates



HE / Eng. Ahmed Naser Al- Naser

GCC CIGRE Board Chairman and Board Member

State of Qatar



HE / Eng. Thani Bin Mohammed Al-Kusaibi

Advisor and GCC CIGRE Board Member

Sultanate of Oman



HE / Eng. Mohammed Hussein AL-Juhani

GCC CIGRE Board Member and Representative of Saudi Arabia

Kingdom of Saudi Arabia



HE / Eng. Kamel Abdul Samad Al Shehabi

GCC CIGRE Board Member and Representative of the Kingdom of Bahrain

Kingdom of Bahrain



Eng. Ahmed Abdullah Al Rahbi

GCC CIGRE Board Member and Representative of the Sultanate of Oman

Sultanate of Oman



# BOARD MEMBERS



HE / Eng. Athari Khalifa Al-Mohammed

GCC CIGRE Board Member and Representative  
of the State of Kuwait

State of Kuwait



HE / Eng. Mohamed Yousuf Al-Kubaisi

GCC CIGRE Board Member and Representative  
of Qatar

State of Qatar



HE / Eng. Ahmed Mohamed Al Kaabi

GCC CIGRE Board Member and Representative  
of the United Arab Emirates

United Arab Emirates



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# REGISTRATION

# PRE-REGISTERED ATTENDANCE (Online Only)



**73%**  
471 Attended



644 Total Number of  
Registrations received Online



**27%**  
173 Did Not Attend



# REGISTRATION BY METHODS

(by attendance)



**72%** Online  
471 Badges Printed



Total Number of Attended  
Online + Onsite



**28%** On-site  
179 Did Not Attend





BADGE CATEGORIES  
(by attendance)



**DELEGATE**

**183** BADGES  
PRINTED



**VISITOR**

**177** BADGES  
PRINTED



**VIP**

**84** BADGES  
PRINTED



**SPEAKER**

**72** BADGES  
PRINTED



**EXHIBITOR**

**61** BADGES  
PRINTED



**SPONSOR**

**177** BADGES  
PRINTED



**MEDIA**

**27** BADGES  
PRINTED



**ORGANISER**

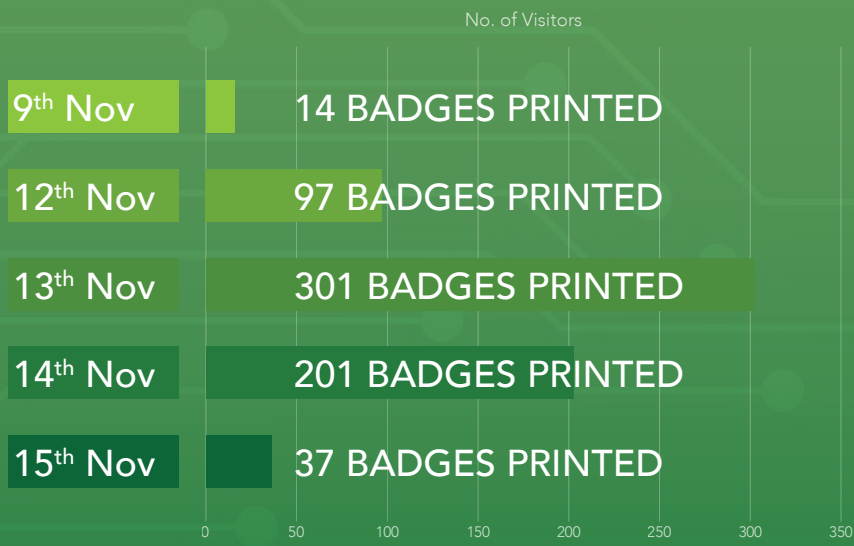
**19** BADGES  
PRINTED



# DATE WISE ANALYSIS

## NOVEMBER 2023

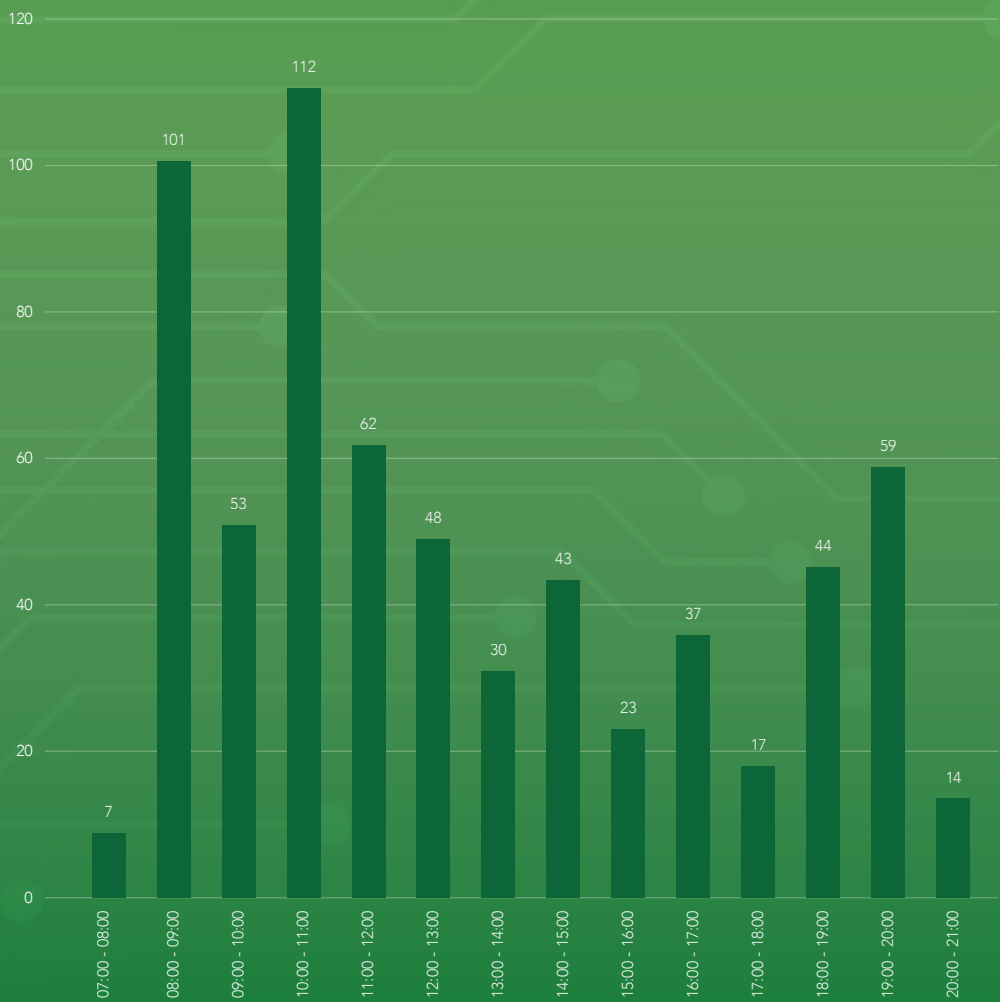
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		



# DATE WISE ANALYSIS



The peak hours were  
10:00 to 11:00 where 17% of  
badges were printed



# NATIONAL vs. INTERNATIONAL REGISTRATION



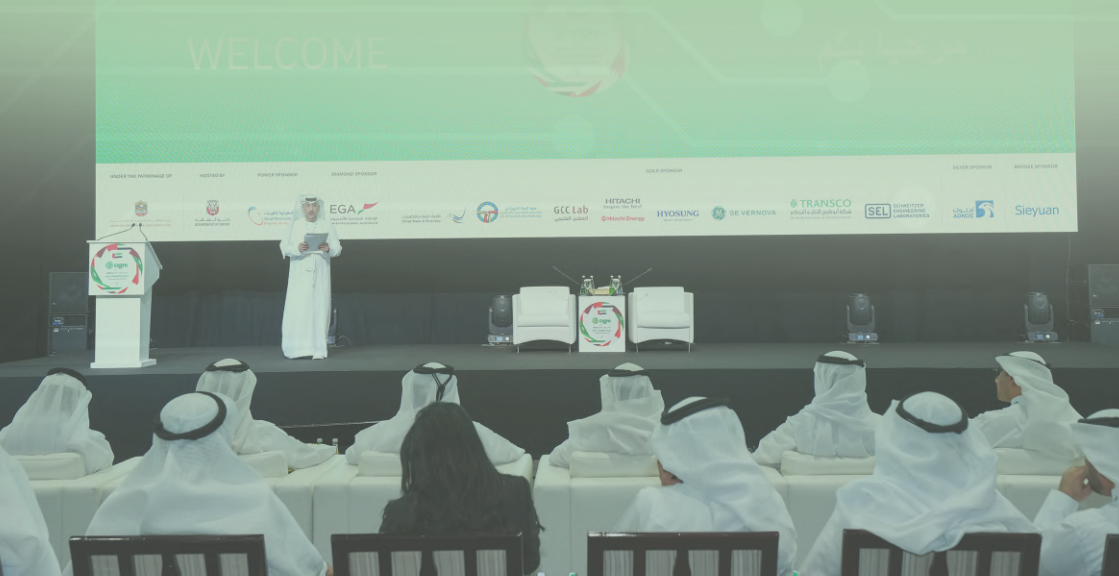
650 Total Number of Badges  
printed



61% National  
402 Badges printed



39% International  
248 Badges printed



# TOP 10 COUNTRIES

(by attendance)



**1. UNITED ARAB EMIRATES**  
402 Badges printed



**2. SAUDI ARABIA**  
81 Badges printed



**3. QATAR**  
31 Badges printed



**4. BAHRAIN**  
18 Badges printed



**5. OMAN**  
14 Badges printed



**6. KOREA**  
14 Badges printed



**7. GERMANY**  
12 Badges printed



**8. KUWAIT**  
10 Badges printed



**9. ITALY**  
6 Badges printed



**10. UNITED STATES**  
6 Badges printed

CONTINENT ANALYSIS  
(by attendance)



North America	6
Africa	5
Europe	28
Asia	440



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# **EVENT BRANDING**

# EVENT BRANDING





# EVENT BRANDING



The background is a solid green color with a subtle pattern of white circuit lines and dots, resembling a digital or technological theme. The lines are horizontal and vertical, with some diagonal segments, and the dots are small circles placed at various points along the lines.

# MARKETING REPORT

# DATE WISE ANALYSIS



## OVERVIEW

Metrics	
Total number of posts	52
Total number of post likes	120
Total number of post comments	7
Total number of stories	40
Estimated Impressions	40,000+



## OVERVIEW

Metrics	
Total fans (page likes)	346
Total number of posts	52
Total number of post reaction	68
Total number of post shares	9
Stories	40
Estimated impressions	52,000+

# DATE WISE ANALYSIS



## OVERVIEW

Metrics	
Total followers	654
Total number of tweets	52
Total number of retweets	39
Total number of likes	43
Estimated Impressions	41,600+



## OVERVIEW

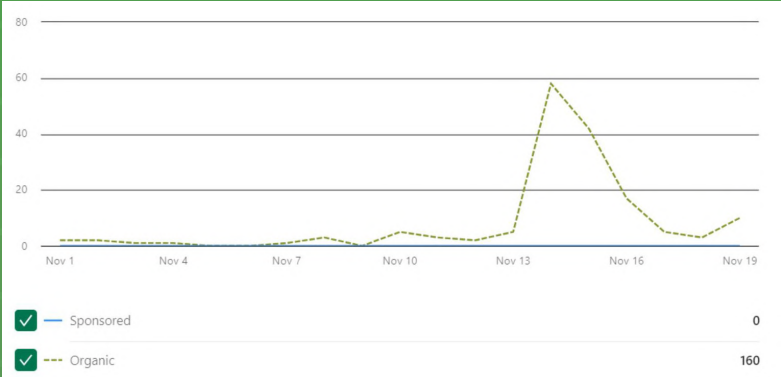
Metrics	
Total followers	1,919
Total number of posts	52 posts
Total post impressions	24,042
Average Impressions per post	471.41
Clicks	3,071
Likes	584
Comments	32
Shares	39
Total social interactions	655
Engagement rate*	15.4%

\*Engagement rate = [Clicks + social interactions]/ Post impressions

# DATE WISE ANALYSIS



## FOLLOWER GROWTH

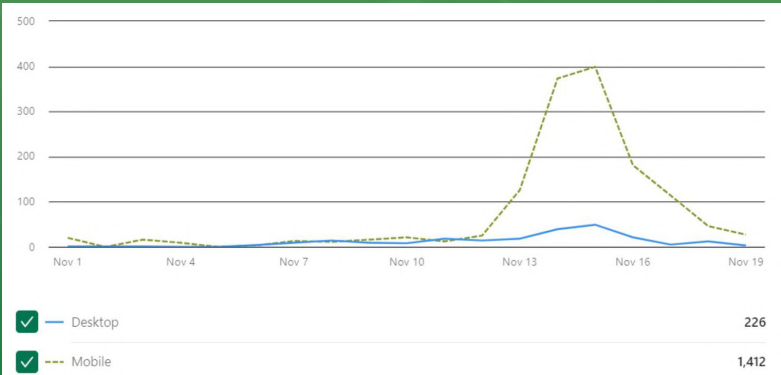


CIGRE LinkedIn page witness a growth of 160 followers between Nov 13 and Nov 16

## TRAFFIC

The below graph highlights traffic to CIGRE’s LinkedIn page between Nov 13 and Nov 16, showcasing the difference between Mobile and Desktop traffic.

The page was visited around 1,638 times with 391 unique visitors.



# DATE WISE ANALYSIS

## TOP POSTS ON DIFFERENT PLATFORMS



# DATE WISE ANALYSIS

## TOP POSTS ON DIFFERENT PLATFORMS







# POSTER PRESENTATIONS

# POSTER PRESENTATIONS



The background is a solid green color with a subtle pattern of light green lines and dots, resembling a circuit board or a network diagram. The lines are horizontal and vertical, with some diagonal segments. The dots are small and are placed at various points along the lines and in the open spaces.

# **PROGRAM AND SPEAKERS**

# PROGRAM AND SPEAKER

13 <sup>TH</sup> NOVEMBER 2023		
Session Time	Session Name	Speaker Name
10:00 - 10:30	Break & Exhibition Visit	
10:30 -12:30	GCC Power Systems Resilience and sustainability throughout Energy Transition	Moderator: Eng. Ahmed Ali Al-Ebrahim, GCCIA  Eng. Suhail Mohamed Al Mazrouei, Ministry of Energy UAE  Eng. Waleed AlSaadi, Saudi National Grid  Dr. Afif Saif Al Yafei, Transco  Eng. Saleh Ali Al Amri, GCC Lab  Eng. Youssef Souissi, Etihad Water and Electricity”
12:30 - 13:00	Product Showcase 1	Higher College of Technology
13:00 - 15:00	Tutorial One: Systems Blackout Causes, Lessons Learned, competence development and Recommendations	Eng. Omar Alghamdi  Eng. Stephen Crutchfield”
13:00 - 15:00	Tutorial Two: Building a Power System Base don New Energy - UHV and Flexbile DC Transmission Tehcnology	Dr.Hu Rong  Dr. Ding Maosheng  Prof. Chen Shi
14 <sup>TH</sup> NOVEMBER 2023		
Session Time	Session Name	Speaker Name
08:30 - 10:00	Speaker Paper, Session A1: Electricity Markets and Regulation & System Development & Economics	Eng. Abdulrahman Mohammed Ahli, TRANSCO  Faisal Mohamed Abdullaheem Alobeidli, TRANSCO  Ahmed Atiah, TRANSCO  Gaurav Bansal, TRANSCO  Anna Prykhodko, DMCC- Engineering Ltd.  Basim Saleh Alharbi, Saudi Electricity Company

08:30 - 10:00	Speaker Paper, Session B1: Asset Management for Power Systems & HVDC and FACTS technology	Eng. Mohamed Al Muaili, GCC Lab Mauro Monge, Hitachi Energy Abdulla Ebrahim Ahmad, Kahramaa Balasubramanian Nainar, TRANSCO Eng. Nasser Al-Dahmashi, WERA Ali Rashid Ali al Marri, Kahramaa
10:00 - 11:30	Women in Energy	Dr. Abeer Al-Maimouni, Kuwait University Eng. Nawal al Hanaee, Ministry of Energy and Infrastructure UAE Eng. Pegah Modaressi, Grid Solutions Eng. Haifa Abdullah Faraj Al Marzouqi, Kahramaa
10:00 - 11:30	Product Showcase	Nynas AB Higher College of Technology
11:30 - 13:00	Session A2: Renewable Energy and Nuclear Power for the Gulf States	Eng. Sanaa Al-Ghareeb, MEW -Kuwait Khaled Shatwi, Saudi Electricity Company Amer Salman Als Salman, SEC Salman Mohammed Alowaifi, Saudi Power Procurement Company Malik Salim Al-Shabii, OETC Hamad Turki Alsubaie, Saudi Electricity Company Said al Mashaikhi, Nama Dhofar Services
11:30 -13:00	Session B2: Transformer Design, Manufacturing, Life Cycle and Performance	Eng. Fahad Al-Zahrani, National Grid SA Kessler, Siemens Energy Sofiane Bakkay, OMICRON Murali Krishna Boddur, University of Technology & Applied Science - Shinas Sara Hamad Albuhendi, KAHRAMAA Diego Robalino, Megger
13:00 - 13:30	Product Showcase	Polytechnics University
13:30 -15:00	Session A3: System Operation & Control	Eng. Hashim Al-Zahrani, GCCIA Abdulaziz Saleh Alhabdan, National Grid SA Mutaz Alaql, Saudi Electricity Company Al Yaqdhan Al Kathiri, Oman Electricity Transmission Company Bandr Faraj Almirri, GCCIA Yaqoub Hamed Al Shamli, OETC Milos Mitrovic, Go2Power Consulting

13:30 - 15:00	NGN Presentation	Eng. Tariq Al Abri, Oman Electricity Transmission Company Dr. Khalfan Al-Kharusi, Nama Electricity Distribution Company Sheetal Kunal Deshmukh, Qatar University Najoud Mohamed Ali, Abu Dhabi Polytechnic Muhammad Umair Muzaffar Eng. Mahra Al Ali, Abu Dhabi Polytechnic
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## 15<sup>TH</sup> NOVEMBER 2023

Session Time	Session Name	Speaker Name
08:30 - 10:15	Session A4: Smart Grids	Eng. Abdulaziz Al-Shafai. KAHRAMAA Ashraf Khalil Al-Maslamani, SEC Ameen Hamdon, SUBNET Solutions Inc. Naif Faisal Al-Harbi, SEC Abdul Quadeer, SEC Rajesh Ananth, GE
08:30 - 10:15	Session B3: Overhead Lines and Insultated Cables	Eng. Aqeel Al-Awady, DUCAB Mostafa Mokhtar Hassanein Ahmed, SEC Mohammed Rafiq Tiro, SEC Gaurav Bansal, TRANSCO Muneer Ahmed, DUCAB Dr. Ghulam Hashmi, Saudi Aramco Dr. Abdel Rahman Alheyasat, NEPCO Mohamad Mustaq Khan, Electricite De France
10:30 -12:00	Session A5: Distribution Systems	Eng. Bader Al-Mamari, OETC Mohammed Majrashi, Saudi Aramco Younis Khamis Salim Al Malki, Petroleum Development Oman Ankit Kumar, Tata Power Mohammed Rafiq Tiro, SEC Sukant Bhattacharya, DNV Ashutosh Sharma, DNV



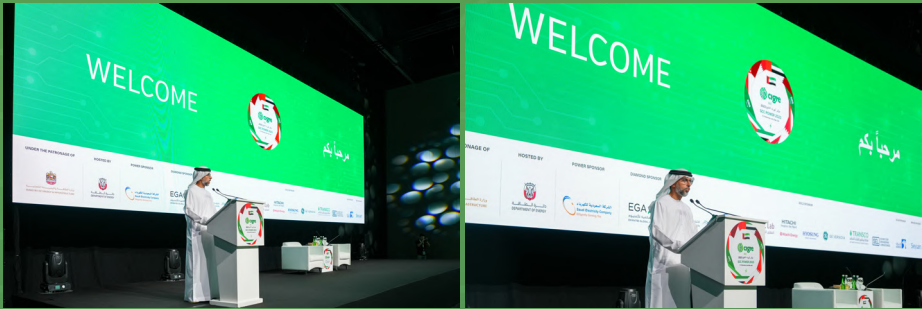
10:30 - 12:00	Session B4: Substation Protection and Automation	Eng. Mohamed el Shair, TRANSCO Haifaa Almtairi, TRANSCO Peter Prasad, TRANSCO Roberto Cimadevilla, ZIV Mohamed Ebrahim Ali Alsaid, OMICRON Wael Abdullah Alsulami, National Grid SA Neelamraju Venkata Naga Jagadish, SEC
12:00 - 12:45	Product Showcase	Polytechnics University



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# **SESSIONS**

# MINISTER SESSION



SESSIONS





SESSIONS



SESSIONS



2023م  
2023  
GCC POWER 2023  
13-14 November 2023



Development of a Reactive Power & Voltage Control Strategy in KSA through Optimization

A. S. Alshabdan (NGSA), B. T. Bukhari (NGSA), B. F. Bargwan (NGSA), A. M. Alduwayghi (NGSA), A. M. Elgarni (NGSA), G. Brunneau (Tractebel Engineering), K. Karoui (Tractebel Engineering), & R. Fahmi (Tractebel Engineering)

Presenter : Abdulaziz Saleh Alshabdan (ashabdan@ngrid.sa)

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2023  
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When performing dynamic stability studies for a certain area, it is important to correctly model not only that area, but the whole interconnected system.

- However, the issue is that very often the dynamic models of the neighbouring areas are not available, or not up to date. In those cases, the usual approach is to use network equivalents for the neighbouring areas.
- This paper presents practical and simple methodology for the development of dynamic equivalent models of neighbouring areas for the purpose of power system stability studies.
- This methodology is then applied in the GCCIA interconnected system so that when system stability of certain Member State (MS) is analysed (e.g. UAE), all other GCCIA MS are represented with an equivalent models.
- Finally, the proposed methodology is verified in PSS-E software for the three system disturbances (for which high resolution PMU measurements are available).

GCC POWER 2023

2



2023م  
2023  
GCC POWER 2023  
13-14 November 2023



Certified Power System Operator Program (CPSO)

- Objective: CPSO aims to improve the reliability of GCC Power system operators (Power Dispatcher) competencies in delivering critical duties and to manage system's challenges and abnormalities through a continued competency development program which is governed by GCC Lab Certification Division.
- Target: continued development program for System Operators/Power Dispatchers

Standard Practice

Continued Development

Competent Operators

Benchmarkable practice

GCC POWER 2023

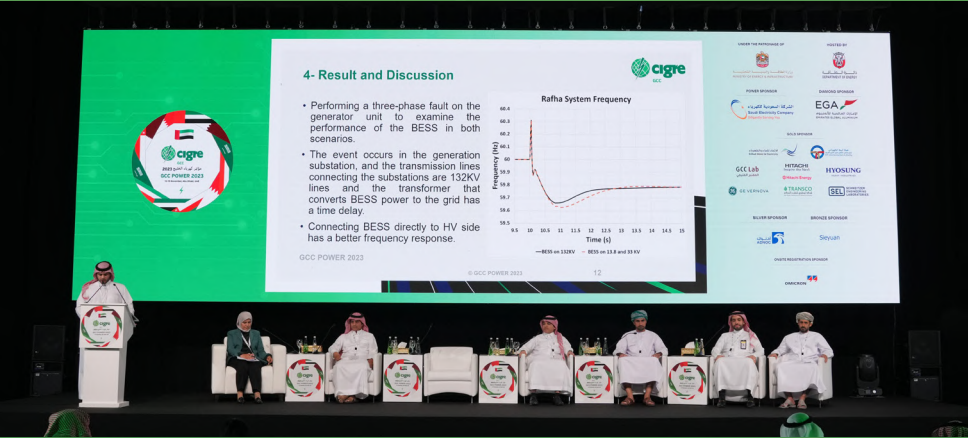
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## PANEL DISCUSSIONS



# PANEL DISCUSSIONS





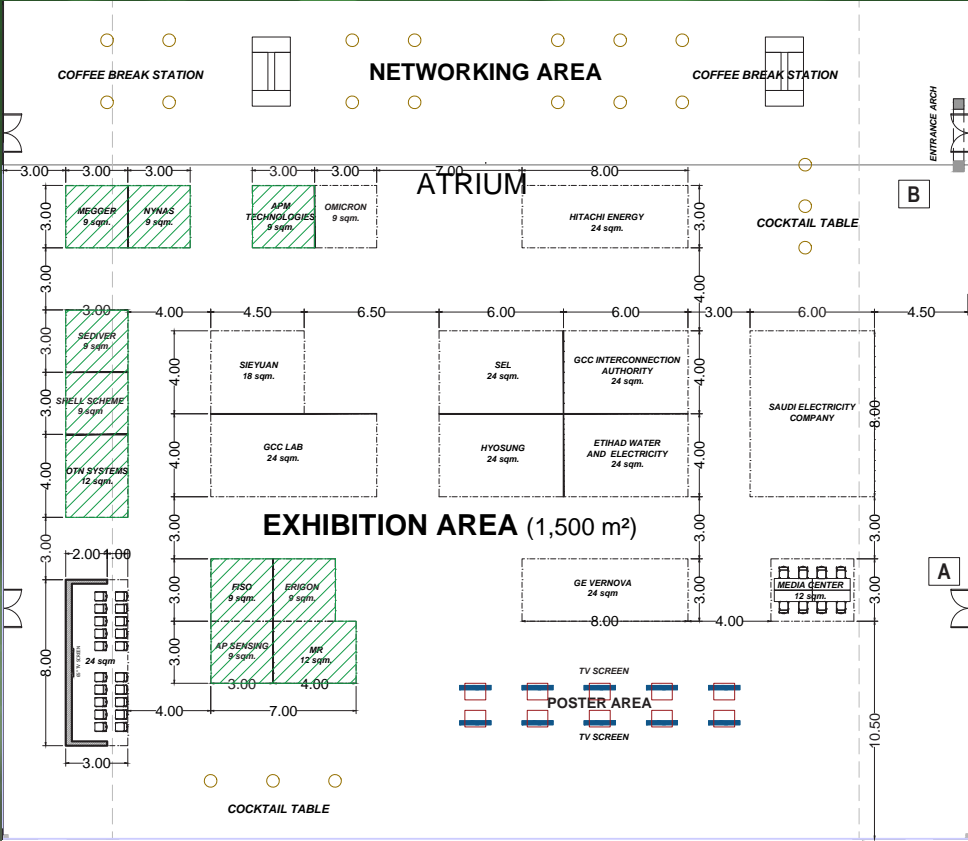
# CLOSING CEREMONY



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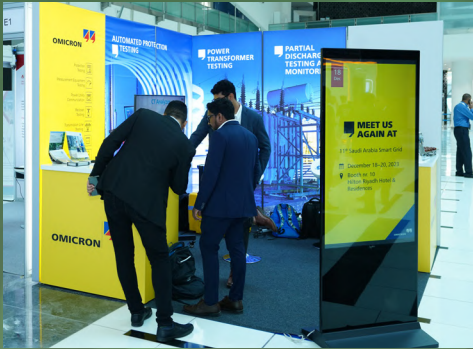


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**AP SENSING**

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