



THE INSTITUTION OF ENGINEERS, SRI LANKA

The Institution of Engineers, Sri Lanka, 120/15 Wijerama Mawatha, Colombo 7, Sri Lanka

Session 2023/2024

PROGRESS REPORT

For the

Month of May/June 2024

Electrical, Electronics and Telecommunication Engineering Sectional Committee

Progress as end of 1st July 2024

EE&TESC Webinar 08

Mining the Wind? The Next Leap in Energy Transition with Offshore Wind

Offshore wind energy technology has shown a promising option to meet various carbon-neutral policy goals set by different nations across the globe. With the continuous innovation within the offshore wind sector, it is capable of harnessing more energy utilizing fewer units and also able to connect to weaker grids. Together with the expansion of offshore wind power, P2X and Energy Islands concepts have shown significant benefits. Essentially, use of offshore wind energy to produce green hydrogen and other gaseous or liquid chemicals. This talk will center on exploring emerging technologies, consolidating European initiatives, and outlining a roadmap to capitalize on future opportunities within the Sri Lankan landscape, leveraging the abundant wind potential available off-the-shore.

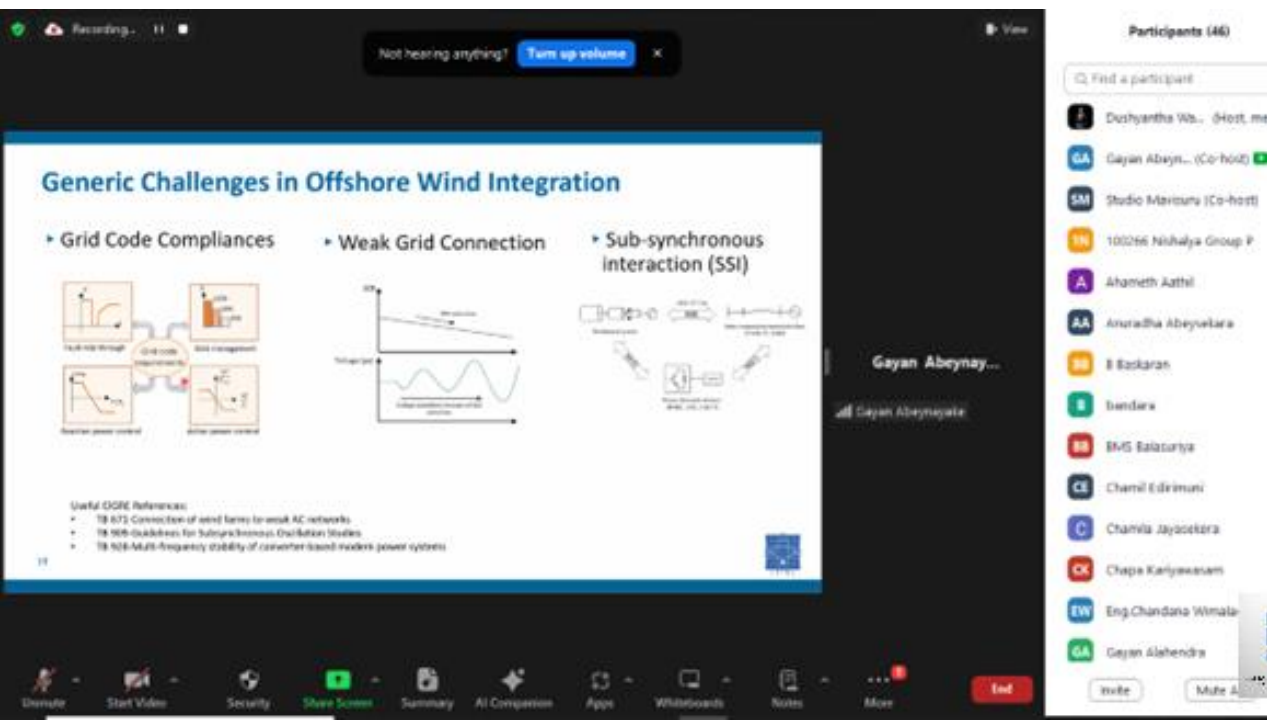
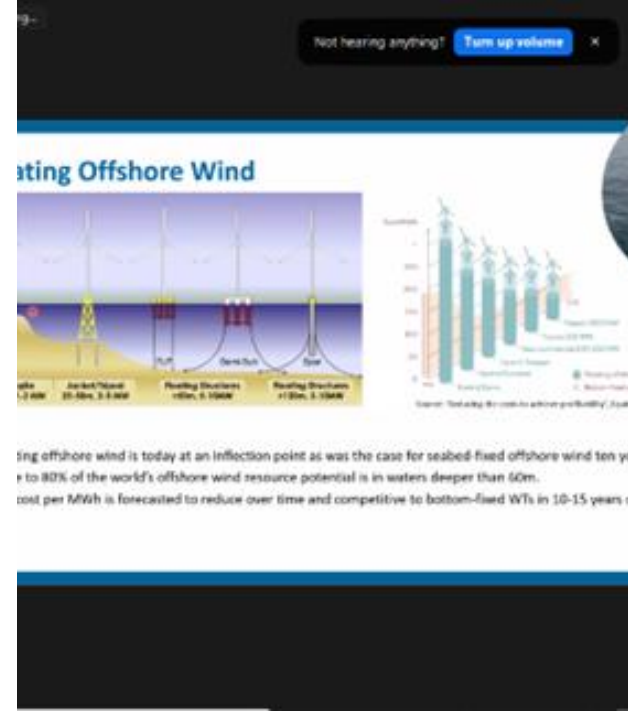
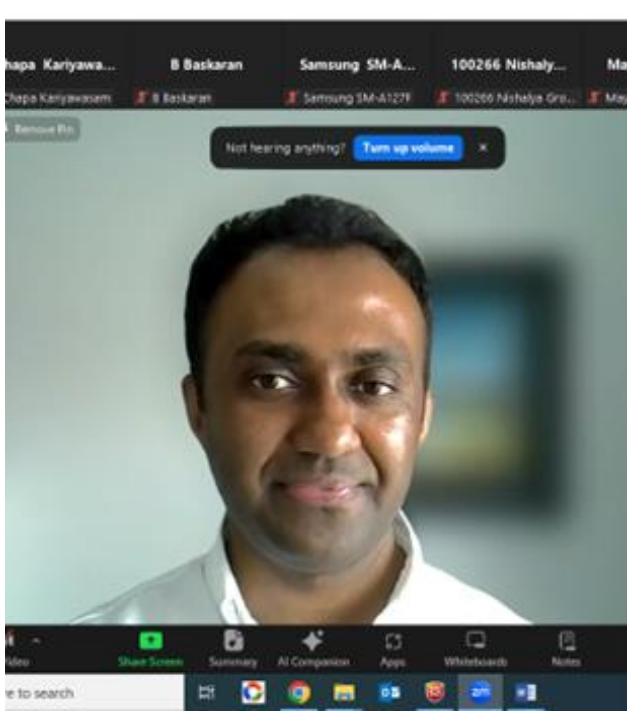
Eng. (Dr.) Gayan Abeynayake

Dr. Gayan Abeynayake is currently working as a Senior Power System Engineer at Orsted; one of the largest Offshore Wind Farm developers in the world. He received his PhD from Cardiff University, UK in 2021 and granted the Marie Curie Early-Stage Research Fellowship by the European Union for his research work conducted under 'InnoDC' project. Dr. Abeynayake obtained his BSc.Eng (1st Class Hons) degree in Electrical and Electronic Engineering in 2011 and the MSc.Eng degree in 2016 from the University of Peradeniya, Sri Lanka. He is also the recipient of Prof. E.O.E. Pereira Gold Medal for the most Outstanding Engineering Graduate at the General Convocation in 2012. He served as a Transmission Planning Engineer at the Ceylon Electricity Board between 2012 and 2018. He is also a Chartered Engineer with the Institute of Engineers, Sri Lanka.

**08th May 2024 | Studio Mavisuru
5.30 PM to 7.30 PM**

Meeting ID: 850 6754 0629 | Passcode: 880623

Organized by the Electrical Electronic and Telecommunication Engineering Sectional Committee

EE&TESC Webinar 08

"Mining the Wind The Next Leap in Energy Transition with Offshore Wind" was held on Wednesday May 8th, 2024, 5.30 PM at IESL Studio Mavisuru. Eng. (Dr.) Gayan Abeynayake was the speaker for this discussion. There were more than 50 online participants for this interactive session

EE&TESC Field Visit 02

ETESC Members visited the Engineering Formations at Sri Lanka Air Force Base Katunayake on 21 May 2024. This visit covered the Electronics and Telecommunication Engineering Wing, Aircraft Overhaul Wing, Aeronautical Engineering Wing and Radar Maintenance Wing during the field visit. Informative presentations were conducted in every location and the visiting delegation interacted with the officers and other ranks during knowledge-sharing sessions



EE&TESC Field Visit -2 **SLAF BASE KATUNAYAKE**

1. No 1 Air Defense Radar Squadron (ADRS)
2. Electronics and Telecommunication Engineering Wing (E&T Wing)
3. Radar Maintenance Wing (RMW)


May 21, 2024

30 Participants Only!

Registration is on first come, first served basis.

The Bus will leave IESL at 8.00 AM.



 **EE&TESC FIELD VISIT TO KATUNAYAKE AIR FORCE BASE**
May 20, 2024



 **EE&TESC FIELD VISIT TO KATUNAYAKE AIR FORCE BASE**
May 20, 2024





 **EE&TESC FIELD VISIT TO KATUNAYAKE AIR FORCE BASE**



 **EE&TESC FIELD VISIT TO KATUNAYAKE AIR FORCE BASE**
May 20, 2024



 **EE&TESC FIELD VISIT TO KATUNAYAKE AIR FORCE BASE**
May 20, 2024



EE&TESC FIELD VISIT TO KATUNAYAKE AIR FORCE BASE

Knowledge Sharing Sessions by EETESC Members

EE&TESC Knowledge Sharing Sessions - 07

Intrapreneurship - Igniting Innovation Among Engineers to Drive Organisational Success



Eng. Pamodya Senanayake

Senior Manager, Network Planning and Operations, SLTMobitel

BSc. Eng(Hons) University of Moratuwa-Electronic and Telecommunication Engineering
Minor degree in entrepreneurship from University of Moratuwa
Master of business administration from Postgraduate Institute of Management
CIMA passed finalist, diploma in professional marketing from CIM
Former Sri Lanka women's national chess champion, woman fide master
Committee Member - SME Development at Institute of Chartered Professional Managers Sri Lanka

Synopsis

Intrapreneurship, defined as fostering entrepreneurial behavior within organizations, holds the key to driving innovation, reshaping organizational dynamics, and propelling success.

Companies globally have witnessed the advantages of nurturing an intrapreneurial culture and mindset. Google and IDEO are profound examples of inculcating intrapreneurship for transformation. Intrapreneurship is essential for engineers as it empowers them to drive innovation, fuel organizational growth, create value, foster a culture of ownership, and adapt to change within corporate environments. By embracing intrapreneurship, engineers can unlock their full potential and make a significant impact on the success and sustainability of organizations.

Join to uncover the power of intrapreneurship and the potential to drive meaningful transformation within engineering and beyond.

May 20, 2024 | 5.30 PM ~ 6.00 PM

Meeting ID: 859 1042 2736
Passcode: 089070

Organized by Electrical, Electronics & Telecommunication Engineering Sectional Committee

EE&TESC Knowledge Sharing Sessions - 08

Electrical Safety Auditing

Electrical safety auditing is paramount in any environment where electrical systems are present. These audits serve as proactive measures to identify potential hazards, prevent accidents, and ensure regulatory compliance. By systematically assessing electrical infrastructure, equipment, and practices, organizations can mitigate risks, protect personnel, and safeguard assets. The session will highlight critical focus areas essential for conducting a successful Electrical Safety Audit.



Eng. Charith Sachintha

Electrical Engineer | HOD - Testing, Commissioning, Auditing, Condition Monitoring & Servicing at Amithi Power Consultants (Pvt) Ltd.

May 20, 2024 | 6.00 PM ~ 6.30 PM

Meeting ID: 859 1042 2736
Passcode: 089070

Organized by Electrical, Electronics & Telecommunication Engineering Sectional Committee





EE&TESC Knowledge Sharing Sessions - 10

Importance of Costing and Pricing of Electricity

Electricity is a basis of modern society, powering everything from homes and businesses to hospitals and industries. Understanding how much it costs to produce and deliver electricity, and how it is priced for consumers, is very important. Costing and pricing electricity involves figuring out the expenses of generating power, maintaining the infrastructure, and adhering to regulations. Proper costing ensures that electricity providers can cover their costs and maintain a reliable supply. Meanwhile, strategic pricing influences consumption patterns, promotes energy efficiency, and can support environmental goals by encouraging the use of renewable energy sources.

Join us for an insightful session where we will discuss why understanding the costs and prices of electricity matters and we will explore how these factors affect both electricity providers and users, and how they can lead to innovative solutions, economic stability, and contribute to a greener future.

June 25, 2024
5.30 PM ~ 6.00 PM

Meeting ID: 881 9985 0296
Passcode: 022927



Eng. Birannaa Jeyakumar

He is a graduate from the Department of Electrical Engineering at the University of Moratuwa, works at Resource Management Associates (Pvt) Ltd and is currently pursuing a Masters in Economics from the University of Colombo. He has been extensively involved in tariff calculations, regional tariff comparisons, economic and financial models for power sector projects and conducting sector assessment studies funded by multilateral donor agencies.

Organized by Electrical, Electronics & Telecommunication Engineering Sectional Committee



EE&TESC Knowledge Sharing Sessions - 11

Beyond 1000MW Solar Rooftop systems in Sri Lanka

June 25, 2024
6.00 PM ~ 6.30 PM

Meeting ID: 881 9985 0296
Passcode: 022927

Sri Lanka is targeting net zero carbon status by 2050 and aims to generate 70% of its electricity from renewable sources by 2030. This ambitious goal highlights the critical role of Electricity Distribution Utilities, as Solar PV rooftops are expected to play a significant role in this endeavor. These utilities have faced numerous challenges in integrating nearly 1000 MW of rooftop solar photovoltaic (PV) systems into the distribution grid. Despite these challenges, there are significant opportunities for further expansion of rooftop solar systems while maintaining the quality and reliability of service. This presentation explores how strategic planning, technological advancements, and robust policy frameworks can help overcome these challenges. By doing so, distribution utilities can play a pivotal role in achieving Sri Lanka's renewable energy targets, fostering a sustainable future, and driving the country's economic growth.



Eng. Tharindu De Silva

Tharindu has over 13 years of professional experience, primarily in the electricity distribution sector. Currently, he serves as the Chief Engineer of Planning at Lanka Electricity Company (Private). His expertise includes distribution network planning, renewable energy integration, and microgrids. Tharindu holds both a master's and a bachelor's degree in Electrical Engineering from the University of Moratuwa, Sri Lanka.

Organized by Electrical, Electronics & Telecommunication Engineering Sectional Committee

EETESC Talk with Uva Chapter

EETESC arranged a membership awareness program on entrepreneurship for engineers for socio-economic recovery of Sri Lanka on June 10, 2024, at Grand Heritage Hotel, Badulla with collaboration of National Enterprise Development Authority. Members got the opportunity to interactively work with industry experts to develop their entrepreneurial mind set to seek new business avenues in Sri Lanka.



EETESC Talk with Uva Chapter

Entrepreneurship for Engineers for the Socio-Economic Recovery of Sri Lanka

Panel Members



Eng. Prabath Wijesundara
Chairman, IESL Uva Chapter



Eng. Thiwanka Dilshan Lokuliyana
Managing Director, Ceylon Fresh Pvt Ltd



Mr. D. B Jayathilake
Entrepreneurship Development & Training officer @ NEDA



Eng. Dushyantha Wanniarachchi
Chairman EETESC



Eng. Dushan Thivanka
Regional Manager SLTMOBITEL

June 10, 2024
5:00 PM – 9:00 PM
Grand Heritage Hotel
Badulla


**Electrical, Electronics and Telecommunication Engineering Sectional Committee,
IESL Uva Chapter and National Enterprise Development Authority**



 **Entrepreneurship for Engineers for the Socio-Economic Recovery of Sri Lanka**
EETESC Talk with Uva Chapter

June 10, 2024
Grand Heritage Hotel, Badulla



 Entrepreneurship for Engineers for the Socio-Economic Recovery of Sri Lanka
EETESC Talk with Uva Chapter



 Entrepreneurship for Engineers for the Socio-Economic Recovery of Sri Lanka
EETESC Talk with Uva Chapter June 10, 2024
Grand Heritage Hotel, Badulla



EETESC Panel Discussion 07

EETESC arranged a panel discussion to discuss about “The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery” on June 24, 2024, at Wimalasurendra Auditorium. This discussion was enriched with next generation Electrical engineering aspects and methods to contribute to the economic recovery of Sri Lanka. The eminent panelists who represents major electrical engineering industries in Sri Lanka were given valuable insights for the benefit of members. This interactive session was filled with more than 60 engineers.

EETESC Panel Discussion 07

The Future of Electrical Engineering in Sri Lanka – Driving Sustainable Innovation for Economic Recovery



24th June 2024
5:30 – 7:30
Wimalasurendra
Auditorium

Panel Members



Eng. Manjula Perera
Managing Director,
WindForce PLC



Eng. R. Kaushalya Alpitirachchi
CEO
Amithi Power Consultants



Eng. H. D. Chaminda
Chief Technology Officer,
LTL Holding Pvt Ltd



Eng. Pramuditha Gurusinghe
Assistant General Manager,
Orel Corporation Pvt Ltd.



Eng. Buddhika Wijayawardana
Project Manager,
Ceylon Electricity Board




Moderator
Eng. Biranna Jeyakumar
Project Engineer
Resource Management Associates Pvt Ltd

Followed by a dinner and fellowship at members lounge.

Organized by the Electrical, Electronics and Telecommunication Engineering Sectional Committee



 The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Re
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL





Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
SC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL



The Future of Electrical Engineering in Sri Lanka - Driving Sustainable Innovation for Economic Recovery
EETESC Panel Discussion | June 24, 2024 | Wimalasurendra Auditorium, IESL

EETESC Panel Discussion 09

Energy Landscape of Sri Lanka: Transition Pathways



Panel Members



Prof. Sumedha Rajakaruna
Curtin University, Australia

Prof. Sambit Datta
Curtin University, Australia



Prof. Vishnu Pareek
Curtin University, Australia

Prof. Asanka Rodrigo
University of Moratuwa, Sri Lanka



Prof. Janaka Ekanayake
University of Peradeniya, Sri Lanka

Prof. Rahula Attalage
Sri Lanka Institute of Information Technology



Moderator
Dr. Rasara Samarathunga
University of Moratuwa, Sri Lanka



Curtin Colombo

Introductory Session



Prof. Ranjith Dissanayake
President - IESL



Eng. Dushyantha Wanniarachchi
Chairman, EETEC & YMS - IESL



Master of Ceremonies
Ms. Anjalie Gamage
Acting Head of Academic Affairs,
Curtin Colombo

Organized by **The Electrical, Electronic & Telecommunication Engineering Sectional Committee**
Jointly with **Curtin Colombo**

July 01, 2024
2.00 PM to 4.30 PM
Wimalasurendra
Auditorium, IESL

