

Middle East and Africa Renewable Energy Summit 2021

Agenda for March 9, 2021

12.00 p.m. (GST) Message from Hamid Syed, vice president and general manager of MEA at UL, Perihan Gurbas, renewables lead at UL, and Joseph Padbury, business development manager for Sub-Saharan Africa Renewables at UL

12.15 p.m. (GST) Panel discussion: The Middle East and Africa's Utility-Scale Project Tenders

In this panel discussion, renewable energy experts will explore the tendering process of utility-scale wind and solar projects in the Middle East and Africa (MEA). They will also look at the evolution of the sector and how market changes will shape future pricing trends.

- Learn what the primary considerations and challenges are in the bidding process and when finalizing bid numbers
- Gain an understanding of how cooperation with external advisers is critical to the development and success of tender documentation
- Learn how stakeholders can identify and mitigate risks when calculating costs and timelines

Moderator: Hamid Syed, vice president and general manager of MEA at UL
Chakradhar Byreddy, director of renewables for Asia Pacific at UL
Turki Al Sheri, CEO of KSA at ENGIE
Daniel Calderon, co-founder and CEO at Alcazar Energy
Pierre-Antoine Berthold, CEO Africa at Akuo Energy

1.15 p.m. (GST) Live Q&A – Join the discussion: MEA's Project Tenders

1.45 p.m. (GST) Panel discussion: Wind and Solar Project Due Diligence Process: An In-Depth Look at Risks That Can Make or Break a Project's Financing

The difference between a renewable energy project that is completed successfully and one that stalls is often whether the stakeholders believe the project is feasible and financeable. In this panel discussion, experts in the fields of renewable energy, due diligence and project financing will provide insights into the role of the due diligence process when investigating the viability of projects.

- Discover the importance of the due diligence process and how it is vital to securing project financing
- Gain an understanding of what the main considerations for investing in renewable energy projects are
- Gain insights into the technical, legal and financial challenges for MEA projects

Moderator: Cristian Algar, director for advisory services for EMEA and LATAM at UL
Perihan Gurbas, renewables lead at UL
Christopher Cantelmi, principal of infrastructure investment at International Finance Corporation
Iwan Walters, partner and head of clean energy MENA at Eversheds Sutherland
Vishal Rander, director of project and infrastructure finance, Deloitte

2.45 p.m. (GST) Live Q&A – Ask the expert: The Due Diligence Process

3.15 p.m. (GST) Presentation: Development of MEA Solar PV Projects
In this session, a UL solar advisory expert will introduce new technology concepts that impact the development of MEA solar PV projects and will provide insights into how selecting the correct equipment specification can help site projects to enhance profitability.

- Discover the importance of having a solar measurement campaign
- Gain insights into technology trends, such as bifacial technology, and their impact on cost and energy yields
- Identify risks in the development of utility-scale solar PV project in the MEA region and learn how to mitigate them

Daniel Barandalla, solar advisory lead for EMENALA at UL

4.00 p.m. Live Q&A – Ask the expert: Solar Energy

4.30 p.m. (GST) Panel discussion: Sustainability and Renewable Energy
In this panel discussion, experts in renewable energy and sustainability will explore the different approaches companies are taking to execute their net-zero emissions strategies. We will take a broad view of best practices in the use of renewable energy internationally and will then focus on how these can be translated into more regional and local operations.

- Learn more about corporate and supply chain power purchase agreements (PPAs)
- Learn about the potential barriers and enablers to scalability and success
- Discover the role of renewables in Power-to-X and how the ecosystem will continue to evolve

Moderator: Adrian Wain, environmental sustainability manager at UL
Ivano Iannelli, CEO at Dubai Carbon
Dr. Raed Ahmad Bkayrat, senior energy strategist at Clean Energy Business Council
Fadhila El Discha, renewable energy solutions consultant at South Pole
Marcelle Combrink, solar division manager at Jubaili Bros Solar

5.30 p.m. (GST) Live Q&A – Join the discussion: Sustainability and Renewable Energy

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Agenda for March 10, 2021

12.00 p.m. (GST) Message from Joseph Padbury, business development manager for Sub-Saharan Africa Renewables at UL, and Perihan Gurbas, renewables lead at UL

12.15 p.m. (GST) Presentation: Transforming Data into Actionable Intelligence in Your Operational Wind and Solar Projects

A UL engineering expert in the field of renewable energy will explore some of the challenges that renewable generation plants face, such as assets producing less power than expected, and the possible reasons for underperformance. We will discuss the customized solutions UL can provide to owners, operations and maintenance directors, asset managers and technicians to help them manage their assets through monitoring, control, advanced analytics and insights to help ensure the highest plant performance levels.

- Gain insights into the key performance indicators (KPIs) in the operation of wind and solar plants
- Learn how to feed pre-constructive models with operational data
- Learn how UL's RAMP (Renewables Asset Monitoring Platform) software can help you manage your renewables assets and bring the power of real-time monitoring, production KPIs, analytics, power forecasting and reporting to renewable project owners in the MEA region

Santiago Lopez, global director of asset management services at UL

1.00 p.m. (GST) Live Q&A – Ask the expert: Asset Management

1.30 p.m. (GST) Presentation: Wind and Solar Hybrid Systems Feasibility Studies

UL renewable energy experts will outline UL's experience-based approach to integrating utility-scale wind and solar projects with a shared project area in this session. We will explore the numerous advantages of siting wind and solar technology on the same land parcel and how these factors create an incentive for developing hybrid projects.

- Learn how to strategically site wind and solar technologies to maximize generation from both projects
- Learn how to mitigate the negative impacts of hybrid systems and maximize combined production
- Gain insights into best practices for system design and energy modeling optimization

Christopher Ziesler, director of renewables advisory services at UL
Peter Johnson, senior project engineer for renewables at UL

2.15 p.m. (GST) Live Q&A – Ask the expert: Hybrid Systems Feasibility Studies

2.45 p.m. (GST) Panel discussion: The Role of Hybrid Systems

In this panel discussion led by HOMER Energy by UL, experts in the fields of renewable energy and minigrids will provide insights on what hybrid systems are, why we need them, their uses and applications, including C&I applications where diesels are backing up an unreliable grid and stand-alone minigrids in those situations where grid extensions would not be cost-effective.

- Explore the current state of the minigrid market and gain insights into which countries are seeing the most activity
- Gain an understanding of the technical, financial and supply chain obstacles that need to be overcome
- Gain insights into the financing options for hybrid developers in West Africa and the creation of portfolios of projects for financing

Moderator: Dr. Peter Lilienthal, global microgrid lead at UL

Aaron Leopold, CEO at Africa Minigrid Developers Association

Chinedu Igbokwe, CEO at Stellaris Power Solutions

Tatia Lemondzhava, energy specialist at World Bank Group

Rik Wuts, off-grid utility solutions at Powerhive

3.45 p.m. (GST) Live Q&A – Ask the expert: Hybrid Systems

4.15 p.m. (GST) Presentation: Energy Storage – The Next Revolution for Renewable Energy

Energy storage technologies are emerging as one of the key solutions for the effective integration of solar and wind renewable energy into global power systems. In this session, a UL renewable energy expert will unlock the complexities of energy storage products and help you understand how energy storage systems will perform during anticipated usage.

- Learn how energy storage technologies can be used for a variety of applications in the power sector, from front-of-the-meter (FTM) and behind-the-meter (BTM) applications to utility-scale projects
- Gain insights into market projections for battery energy storage systems (BESS) and the impact of BESS on performance, degradation and safety
- Gain a greater understanding of comprehensive modeling for hybrid plants

Jose Javier Ripa, head of business development for EU, MENA and LATAM renewables at UL

5.00 p.m. (GST) Live Q&A – Ask the expert: Energy Storage

5.30 p.m. (GST) Presentation: PV Module Specifications Upgrade for Extreme Environmental Conditions

Renewable energy experts will explore the impact of the region's high temperatures and extreme environmental conditions on the rapidly expanding photovoltaic (PV) market. Gulf Renewable Labs (GRL) in partnership with UL will share an in-depth analysis of PV module specifications and their compatibility with the desert environment.

- Learn how to select proper module technology, specifications and standards for high temperatures and desert conditions
- Gain insights into study phases
- Access recorded study data and its significance for the specification of PV modules

Colleen O'Brien, principal engineer at UL
Mohammed Alghamdi, renewable lab supervisor at Gulf Renewables Lab

6.15 p.m. (GST) Live Q&A – Ask the expert: PV Module Specifications Upgrade



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