IEEE PowerTalks

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Ministry of Energy and Minerals

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12 - 14 October 2026

Oman Convention & Exhibition Centre
Muscat, Sultanate of Oman

Call For Abstract

www.ieeepowertalks.com

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Over three impactful days

IEEE PowerTalks 2026 will convene power and energy sector stakeholders, utility leaders, policymakers, academics, technology innovators, and global experts to tackle the region's most pressing energy challenges and co-create practical, future-ready solutions.

The conference will serve as a dynamic platform for knowledge exchange, collaboration, and innovation, supporting the Sultanate's energy transition and reinforcing commitments to sustainability, grid resilience, and digital transformation in alignment with Oman Vision 2040.

Event Numbers

5,000+
Participants

75+
Expert Speakers

50+
Countries Represented

80+
Exhibitors

3
Masterclass Tracks

95%
Satisfaction Rating

Important Deadlines

Call for Papers Opens

2nd February 2026

Call for paper Closes

15th May 2026

Author Notification

15th July 2026

IEEE PowerTalks 2026 Opens

12th October 2026

Strategic Program

Main theme: Powering the Future: Energy Transition Pathways and Grid Resilience in an Increasingly Complex Environment

IEEE PowerTalks 2026 will address the urgent need to secure, modernize, and future-proof power and energy systems in the face of evolving environmental, geopolitical, and operational challenges.

As countries worldwide navigate rising energy demand, decarbonization targets, grid complexity, digital transformation, and increasing cyber and infrastructure risks, strengthening the resilience and reliability of power networks has become a strategic priority.

The conference will spotlight advanced technologies, forward-looking strategies, and risk preparedness, alongside in-depth discussions on policy frameworks, regulatory evolution, institutional capacity, and cross-sector collaboration.

These conversations are essential to building energy systems that are not only resilient and adaptable, but also efficient, sustainable, and aligned with long-term national development goals and Oman Vision 2040.

IEEE PowerTalks 2026 invites stakeholders from across the energy value chain to collaborate, innovate, and help shape a secure and sustainable energy future for the region and beyond.

Covered Topics:

Theme 1

Power Market Updates

- Oman Power Market Update: Spot Market Performance & Tariff Implications
- Market Design Evolution: From Single Buyer to Bilateral and Direct Access Models
- Subsidy Reform and Cost-Reflective Tariffs: Industrial and Commercial Impacts
- Financing the Energy Transition: Investment and Sustainable Finance Trends
- Green Molecules and Long-Term Offtake Strategies
- Regional Power Trading and GCC Interconnection Authority

Theme 2

Power Systems and Grid Solutions

- Achieving Full National Grid Integration: North–South Interconnection Completion
- Voltage and Reactive Power Management for Long-Distance 400kV Transmission under
- Regional Grid Integration: Technical and Operational Readiness for GCC Power
- Grid Flexibility and Energy Storage Integration
- Cybersecurity and Grid Digitalization: Protecting Modern Transmission Systems
- Grid Stability in Low-Inertia Networks: Power Electronics, Grid-Forming Controls, and Flexibility Solutions
- HVDC and Hybrid Transmission Solutions for Large-Scale Green Power Export and Interconnection
- Advanced Grid Protection and Automation

Theme 3

Distribution Systems

- Smart Metering Beyond Deployment: Leveraging Data for
- Rooftop Solar Integration at Scale: Managing Voltage Rise and Reverse Power Flows
- Advanced Distribution Automation (DA) and Fault Management
- Preparing the Grid for Electric Vehicle Adoption
- Reducing Non-Technical Losses and Improving Revenue Protection
- Smart Cities and Grid-Interactive Distribution Networks

Covered Topics:

Theme 4

Asset Management and Optimization

- Optimizing Solar O&M: Robotic Cleaning, Performance Analytics, and Degradation Management
- Wind Turbine Reliability and Lifecycle Management
- Gas Turbine Flexibility and Life Extension: Optimizing aging CCGT units to support variable solar and wind generation
- Digital Twins and Predictive Analytics for Grid Assets
- Transformer Lifecycle and Thermal Stress Management
- Predictive Maintenance: From Schedule-Based to Condition-Based Strategies
- Integrated Asset Health Management Platforms
- Battery Energy Storage O&M and Lifecycle Management

Theme 5

Energy Conservation and Efficiency

- Energy Efficiency Financing Mechanisms
- Smart Building Integration and IoT for Efficiency
- Cooling the Future: District Cooling Expansion and Regulations
- Retrofitting Government Buildings: Updates on the National Energy Efficiency Program
- Demand Response Pilots for Industrial Consumers
- Integration with real-time monitoring and predictive load management
- Public Awareness and Behavioral Change Campaigns

Theme 6

Sustainable Energies, Renewables & Storage

- Utility-Scale Solar and Solar-Plus-Storage: Lessons from Global Deployments
- Wind Energy Development and Offshore Opportunities in the GCC
- Flexible Gas Turbines and Low-Carbon Conventional Generation
- Energy Storage Innovations: Beyond Batteries
- Carbon Capture, Utilization, and Storage (CCUS): From Pilot to Industrial Scale
- Digitalization and AI in Renewable Generation Asset Management
- Resilience and Climate-Adaptive Design for Generation Assets

Abstract Submission Guidelines

Deadline
15th May 2026

All submitted abstracts will be reviewed by the IEEE PowerTalks 2026 Technical Committee. Early submission is encouraged to allow sufficient time for review. The final submission deadline is 15th May 2026. Abstracts submitted after this date or those that are incomplete will not be considered.

Abstract Submissions:

- Extended Abstract must be 2-3 pages long
- The abstracts must be in English
- A 100-word English biography and author photo to be included
- Deadline: 15th May 2026
- Abstracts and biographies must be sent to be submitted on the following link: Abstract Submission – IEEE PowerTalks or email to almukhtar@rayaservices.com
- The technical committee will announce decisions and notify the speakers on 1st June 2026.

Submit your Abstracts today

Technical Committee

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