3rd Annual Conference on

AI IN RENEWABLES

Powering Smarter, Cleaner Energy

January 28, 2027 | Le Méridien, New Delhi



"Early Bird" discount ends on January 7, 2026

Register Now

Organisers:

RenewableWatch

REGLOBAL
Analysis and perspective for CXOs

MISSION

- Artificial intelligence (AI) is rapidly evolving from an emerging digital tool into a strategic enabler across the renewable energy value chain with the growing complexity and connectedness of power systems. AI is being deployed across various applications across the entire renewable energy ecosystem, ranging from resource assessment, generation forecasting and predictive maintenance to asset optimisation, energy trading and automated operations, as well as supporting the integration of renewables and energy storage.
- By enabling more accurate forecasting, faster decision-making and more adaptive grid management, AI is helping renewable energy developers, utilities, equipment manufacturers and system operators improve efficiency, reliability and overall system performance, while reducing costs.
- As AI adoption accelerates and stakeholders move from AI pilots to scalable and commercially viable solutions, focused efforts are required in the areas of quality data, digital infrastructure, cybersecurity, interoperability, skills and governance frameworks. While AI is being used across multiple applications, intelligence is required to improve AI-driven decision-making and ensure responsible, transparent and secure use of the technology to operate increasingly complex and dynamic clean energy systems.
- **The conference will provide a platform for policy makers and regulators, renewable energy developers, grid planners and operators, EPC and O&M contractors, technology providers, advanced software platform providers, cybersecurity experts, investors, legal firms and researchers to deliberate the key opportunities and bottlenecks in the area of AI for renewables. The conference will delve into key trends and applications across O&M, forecasting and scheduling, grid management and improving project economics. It will also focus on impact on the workforce, cybersecurity concerns and moving from pilots to commercial projects.**

TARGET AUDIENCE

The conference is targeted at top and middle-level managers from:

- Policymakers and regulators
- Data centre owners and operators
- Renewable energy developers
- Advanced software platform providers
- Grid planners and operators
- Cybersecurity experts
- EPC contractors
- Investors
- O&M service providers
- Legal firms
- Project design consultants
- Researchers
- Technology providers
- Etc.

AGENDA

TRENDS, USE CASES AND CHALLENGES

- What is driving the shift from AI experimentation to large-scale deployment across the renewable energy value chain?
- Which AI applications are delivering measurable gains in efficiency, reliability and profitability, and where is the greatest potential for future adoption?
- What are the key barriers to scaling AI, including data quality, interoperability, skills, cybersecurity and responsible AI governance?

AI FOR IMPROVING PROJECT ECONOMICS

- How can AI optimise bidding, power trading and revenue strategies for renewable energy projects?
- How can AI improve project design, site assessment, resource modelling and construction planning?
- Can AI help developers optimise capex, reduce project delays and improve project bankability?

AI FOR O&M AND ASSET PERFORMANCE

- How is AI transforming asset monitoring, fault detection, diagnostics and O&M strategies across renewable energy projects?
- How are predictive and prescriptive maintenance capabilities evolving, and what is required to move towards increasingly autonomous operations?
- How can AI improve asset availability, performance and lifetime while reducing O&M costs?

AI FOR UTILITIES AND GRID MANAGEMENT

- How can AI enable utilities to manage increasingly complex grids with high shares of renewable energy?
- How can AI improve real-time response to extreme weather events, outages and other grid disturbances?
- How can AI support distributed generation, prosumer participation, demand response and increasingly decentralised power systems?

AI FOR FORECASTING AND SCHEDULING

- How are AI and machine-learning models improving the accuracy and responsiveness of solar and wind generation forecasts?
- How can AI improve scheduling, dispatch and renewable energy integration across increasingly variable power systems?
- What persistent challenges remain in forecasting renewable generation, and which emerging technologies can address them?

AI AND CYBERSECURITY

- What new cybersecurity risks and attack surfaces are emerging as AI becomes embedded across renewable energy and grid infrastructure?
- How can organisations secure AI models, operational technology, data platforms and connected renewable assets?
- What cybersecurity frameworks and best practices are needed for AI-enabled energy infrastructure? Are India's current regulatory and cybersecurity frameworks adequate for AI-driven renewable generation and grid operations?

FROM AI PILOTS TO SCALE

- How should renewable energy companies evaluate the business case and ROI for AI investments?
- What data, digital infrastructure and organisational capabilities are needed for enterprise-wide adoption?
- How can developers, utilities, technology companies and AI providers collaborate to accelerate deployment? What safeguards are needed to encourage human–AI collaboration?

PREVIOUS PARTICIPATING ORGANISATIONS

ACME Solar | Aditya Birla Renewables | AERON SYSTEMS | Amity University, India | Ampln Energy Transition | Applied Energy Technologies | Apraava Energy | Athena Hisar Solar Power Private Limited | Avaada Energy | Bahwan Cybertek | BluPine Energy | BSES Rajdhani Power | BSES Yamuna Power Limited | CEA | CEEW | CERT-IN | Central Electricity Authority | Central Electricity Regulatory Commission | Controls India | Contravault AI | CTUIL | CTUIL Power Grid | Delhi Technological University | Delhi Transco Limited | Edge Gro Industries | EcOren Energy | ENGIE | Fortum India | Gentari India | GH2 Solar | GMR Energy | Greenko | Grid Controller of India | Gujarat Industries Power Company Ltd. | HG Infra Engineering | Honeywell | HPCL-Mittal Pipeline | HRED, IIT Roorkee | IIT Delhi | Indian Renewable Energy Development Agency Limited (IREDA) | Inox Green | InSolare Energy Ltd. | Jakson Green | Juniper Green Energy | KPMG India | KREDL | Madhav Corp | Manchanda Renewable | Manikaran Power Limited | Ministry of New and Renewable Energy | Ministry of Power | NEXTracker | NITI Aayog | NTPC Green Energy | NTPC Vidyut Vyapar Nigam Limited | PowerGrid | Punjab Renewable Energy Systems | Rays Power Infra | Repono | RMI | RPSG Group | RENEW | Serentica Renewables | Sharajman Technologies | Skill Council for Green Jobs | SSS-NIRE | Sterlite Power | Sterling and Wilson Renewable Energy | Tata Power Renewable Energy | TMEIC Industrial Systems India | TotalEnergies Gas & Power Projects India Pvt Ltd | Torrent Power | UltraTech Cement Limited | UJVN Ltd. | Vikram Solar | VIKI.AI | VSL Renewable Services | Waaree Energies | WSP | among many others

DELEGATE FEE

	20 per cent discount (before January 7)				Fee without discount (after January 7)			
Delegates	**INR**	**GST@18%**	**Total INR**	**Total USD**	**INR**	**GST@18%**	**Total INR**	**Total USD**
One delegate	12,800	2,304	15,104	185	16,000	2,880	18,880	228
Two delegates	22,400	4,032	26,432	325	28,000	5,040	33,040	399
Three delegates	32,000	5,760	37,760	460	40,000	7,200	47,200	569
Four delegates	41,600	7,488	49,088	600	52,000	9,360	61,360	739

- There is a 20 per cent "early bird" discount for those registering before January 7, 2027.
- Registration will be confirmed on receipt of the payment.
- To register online, please log on to http://indiainfrastructure.com/conf.html

ORGANISERS

Founded in 2010, *Renewable Watch* covers the entire spectrum of renewable energy – wind, solar, bioenergy, small-hydro, storage, green hydrogen and other emerging technologies – including both grid-interactive and off-grid power solutions. It aims to provide accurate information tracking investments and projects; showcase innovations and technologies; and offer a platform for debate and discussion on policy, regulation and financing.

Renewable Watch also publishes Renewable Watch News (a weekly newsletter) and a series of reports on the energy sector, including Renewable Energy in India, Compressed Biogas Market in India, and Floating Solar Projects in India.

Other conferences organised by *Renewable Watch* include *Solar Power in India, Wind Power in India, Green Hydrogen in India, Pumped Hydro Storage in India, Compressed Biogas in India, Hydro Power in India* and *Hydro Power in Asia.*

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For delegate registrations and sponsorship opportunities, please contact:

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