

7th CII International Energy Conference & Exhibition



Theme

Transitioning with Energy Security – The New Global Order
Secure, Smart, Sustainable

6 – 7 August 2026 | Hotel Le Meridien, New Delhi

Programme Outline

Day 1: 6 August 2026

0930 – 1015 hrs	INAUGURAL SESSION <u>Sovereign Hall</u>
Transitioning for Energy Security As the global energy landscape undergoes unprecedented transformation, energy security has emerged as a central pillar of economic resilience, industrial competitiveness, and sustainable growth. Geopolitical shifts, evolving supply chains, rising electricity demand, and the race for clean technologies are reshaping how nations secure and transition their energy systems. The Inaugural Session will explore strategies for building resilient, diversified, and future-ready energy systems. The discussion will examine the role of regional cooperation, clean energy innovation, digitalisation, and investment frameworks in advancing a secure, sustainable, and inclusive global energy transition. Key Discussion Points: • Energy Security in the New Global Order • Geopolitical Risks and Supply Chain Resilience • Clean Energy Transition and Industrial Competitiveness • Regional Energy Cooperation and Connectivity • Technology, Innovation and Digitalisation of Energy Systems • Mobilising Finance for the Energy Transition • Building Resilient and Future-Ready Energy Infrastructure • Jobs, Skills and a Just Energy Transition • Pathways to a Secure, Smart and Sustainable Energy Future	

1030- 1130 hrs	Inaugural session <u>Desire Hall</u>
The 1st Global South Convening on Clean Technology Minerals & Supply Chains To view detailed agenda for 6-7 August, visit https://www.ciire.in/	

1030- 1130 hrs	COUNTRY SESSION-Argentina (TENTATIVE)

SESSION 2
Track: Energy Security & Supply Chains
Sovereign Hall

1015-1045 hrs

Special Ministerial Plenary Session

As India accelerates its transition to a low-carbon economy, building resilient domestic supply chains and advanced manufacturing capabilities will be critical to energy security, industrial competitiveness, and sustainable growth. This session will explore strategies to scale manufacturing across the clean energy value chain, advance green steel and industrial decarbonisation, and strengthen the critical infrastructure needed to support the country's clean energy ambitions.

SESSION 3
Track: Energy Security & Supply Chains
Sovereign Hall

1045-1110 hrs

Building Energy Supply Chains

As global demand for clean energy technologies grows, resilient energy supply chains will be critical to ensuring energy security and enhancing industrial competitiveness. This session will examine how to scale manufacturing across the entire energy value chain, spanning not only end technologies such as solar modules, batteries, and electrolyzers, but also the critical components and equipment involved in their production. It will explore strategies to enhance logistics and infrastructure networks, leverage free trade agreements, and strengthen trade facilitation measures to support a competitive, future-ready manufacturing base with greater export competitiveness. It will further explore how energy diplomacy can help secure access to critical minerals, diversify sourcing channels, and strengthen international partnerships, thereby building resilient energy supply chains.

Key Discussion Points:

- Scale manufacturing across the full energy value chain
- Boost production of components and critical equipment
- Strengthen logistics and infrastructure networks
- Build international partnerships and strengthen trade facilitation

1115-1200 hrs	Session 4 The CEO Dialogue <u>Sovereign Hall</u>
As the global energy landscape undergoes rapid transformation, energy security has become a strategic imperative for businesses, governments, and communities alike. Join the conversation with leading CEOs as they explore the evolving dynamics of energy resilience, supply chain stability, the clean energy transition, and the investments shaping the future. This exclusive session will bring together industry leaders to share insights on balancing growth with sustainability while navigating geopolitical shifts, technological innovation, and the path toward a secure, affordable, and reliable energy future.	

SESSION 5 <u>Track: Clean Power Systems</u> <u>Sovereign Hall</u>	
1200 – 1245 hrs	24/7 Clean Power: Hybrid Renewables and Energy Storage
India achieved 50% of its installed electricity capacity from non-fossil fuel sources in 2025, reaching its target five years ahead of schedule. As renewable energy expands towards 500 GW by 2030, ensuring reliable, affordable, and round-the-clock clean power will be critical. This session will explore how hybrid renewable energy systems integrating solar, wind, and storage can strengthen grid resilience and deliver firm, dispatchable power. Discussions will also focus on hybrid procurement models, financing frameworks, and resilient domestic manufacturing and supply chains to accelerate India's clean energy transition. Key Discussion Points: • Delivering reliable 24/7 clean power through hybrid systems • Optimising solar, wind, and storage for grid resilience • Leveraging BESS and pumped hydro for renewable integration • Strengthening RTC and FDRE procurement models • Improving project bankability through innovative financing	

COUNTRY SESSION-Bhutan	
1200- 1300 hrs	Bhutan's Energy Sector: Strengthening India-Bhutan Clean Energy Partnership

Session 6 <u>Sovereign Hall</u>	
1245-1345 hrs	State Ministers Energy Transition: A State Perspective

1345 – 1430 hrs	NETWORKING LUNCH
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STATE SESSION	
1430-1530 hrs	State Session- Bihar

SESSION 7 <u>Track: Clean Power Systems</u> <u>Sovereign Hall</u>	
1430-1515 hrs	The Nuclear Imperative: Energy Security in the Changing Global Order
As the global energy landscape is reshaped by geopolitical uncertainty, supply chain disruptions and the imperative of decarbonisation, energy security has become a strategic priority. Nuclear energy is emerging as a cornerstone of secure, reliable and low-carbon energy systems. Advanced technologies, including Small Modular Reactors (SMRs), Generation IV reactors, microreactors and advanced fuel cycles, are redefining clean energy while reducing dependence on imported fossil fuels. Beyond electricity, nuclear technologies support clean hydrogen, industrial heat, desalination and other strategic applications. This session will examine how advanced nuclear technologies, digital innovation and international collaboration can strengthen resilient energy systems and assess how India can leverage its scientific capabilities, manufacturing ecosystem and partnerships to become a global hub for advanced nuclear technologies. Key Discussion Themes • Advanced reactors (SMRs, Generation IV, microreactors and advanced fuel cycles) for reliable, flexible and resilient low-carbon power • Nuclear energy for clean hydrogen, industrial heat, desalination and industrial resilience • ITER, India's fusion programme and emerging nuclear technologies for long-term energy security • AI, digital twins, robotics, modular construction and advanced manufacturing to improve safety, efficiency, cybersecurity and deployment • International collaboration, technology partnerships, domestic manufacturing and innovation to strengthen supply chains and position India as a trusted global nuclear partner	

SESSION 8 <u>Track: Clean Power Systems</u> <u>Sovereign Hall</u>	
1515-1600 hrs	Building Human Capital for Energy Security
As India's energy transition accelerates, skilled talent is becoming a critical pillar of energy security alongside capital, technology, and infrastructure. This session will explore how industry, government, and academia can collaborate to build a future-ready clean energy workforce. Discussions will focus on closing skills gaps through training, reskilling, apprenticeships, and stronger industry-academia partnerships. It will also examine how workforce development can enhance industrial competitiveness and position India as a global hub for skilled clean energy talent. Key Discussion Points: • Building a skilled workforce for the clean energy transition • Closing skills gaps through training and apprenticeships • Reskilling and upskilling for the evolving energy economy • Strengthening industry-academia collaboration • Positioning India as a global clean energy talent hub	

SESSION 9 <u>Track: Digital Energy Systems</u> <u>Inspire Hall</u>	
1530-1615 hrs	AI-Enabled Smart Grids for Energy Security: Predictive, Self-Healing and Interoperable Power Systems
As India's power system becomes increasingly digital and renewable-rich, AI and advanced digital technologies are transforming grid operations and management. Smart grids, predictive maintenance, automation, and secure communication networks are enabling more resilient and efficient power systems. This session will explore how AI, SCADA systems, and cybersecurity can build predictive, interoperable, and cyber-resilient grids. Discussions will focus on renewable integration, self-healing grids, cyber governance, and trusted data ecosystems to strengthen energy security. Key Discussion Points: • AI-enabled predictive maintenance, digital twins, and advanced analytics for grid reliability • Building self-healing grids through automation and AI-enabled fault detection • Integrating renewable energy through intelligent grid management • Strengthening cybersecurity, standards, and governance for critical energy infrastructure • Deploying secure SCADA systems and resilient communication networks • Leveraging AI for threat detection and trusted data governance	

SESSION 10

Track: Clean Power Systems

Sovereign Hall

1600-1645 hrs

Energising Wind Sector: Repowering, Expansion & Grid Integration

With over 50 GW of installed capacity and significant untapped potential, wind energy remains a vital pillar of India's clean energy transition and energy security. The next phase of growth will require a combination of new capacity additions, repowering of ageing assets, and deeper grid integration. This session will explore opportunities to expand deployment through technology upgrades, improved turbine performance, and modernised transmission infrastructure. It will also examine policy, regulatory, and financing measures to accelerate sustainable growth across the wind sector.

Key Discussion Points:

- Repowering ageing assets and technology upgrades
- Expanding deployment and improving grid integration
- Modernising transmission and evacuation infrastructure
- Policy, regulatory and financing enablers

SESSION 11

Track: Energy Security & Supply Chains

Sovereign Hall

1645- 1730 hrs

Bridging the Green Funding Gap

Closing the green funding gap is essential to achieving global energy transition goals. This session will explore ways to scale financing through multilateral reforms, innovative risk-sharing tools, and blended finance models. It will also address the importance of equitable access to funds, ensuring that emerging and developing economies can accelerate their clean energy transitions.

Key Discussion Points:

- Scaling up climate finance to bridge the investment gap
- Reforming MDBs to increase lending capacity and accelerate disbursements
- Mobilising private sector capital at scale through green bonds, blended finance, sustainability-linked bonds, guarantees and credit enhancement mechanisms
- Enhancing affordability and access to finance for emerging and developing economies, with a focus on just and equitable energy transitions



Exclusive CEOs Roundtable

1800 hrs

Exclusive CEOs Roundtable

By invite only

NETWORKING DINNER

Day 2: 7 August 2026

SESSION 12 SPECIAL PLENARY SESSION WITH Shri Hardeep Singh Puri, Hon'ble Minister for Petroleum and Natural Gas <u>Sovereign Hall</u>	
0930 – 1000 hrs	From Security to Sustainability: India's Energy Transition Pathway
As nations navigate an increasingly complex energy landscape, striking the right balance between global collaboration and national priorities will be essential to unlocking innovation, enhancing resilience, and advancing a secure and sustainable energy future. This session will explore India's vision for a secure and future-ready energy ecosystem, highlighting how conventional fuels, biofuels, and green hydrogen can work in tandem to strengthen energy security, drive sustainable growth, and power the nation's transition journey.	

SESSION 13 <u>Track: Energy Security & Supply Chains</u>	
1000 - 1045 hrs	Beyond Borders: The Future of Shared Energy Systems
This session will focus on cross-border cooperation as a means for energy diplomacy, enabling countries to manage risks and enhance system resilience. This session explores how shared grids, pipelines, and joint reserves can reduce vulnerabilities and promote friendly relations by helping navigate geopolitical tensions, financing hurdles, and regulatory fragmentation. It will also examine pathways to balance national priorities with collective energy stability. Key Discussion Points: • Scaling cross-border energy trade through interconnected grids and pipelines • Role of international agreements in ensuring energy security • Overcoming infrastructure, financing, regulatory, and geopolitical barriers • Leveraging strategic reserves and joint stockpiling mechanisms to mitigate supply disruptions and price shocks • Balancing national interests with cross-border collaboration	

SESSION 14 <u>Track: Clean Power Systems</u> <u>Sovereign Hall</u>	
1045-1130 hrs	Powering the Economy: Meeting the Next Wave of Electricity Demand
As India emerges as a leading digital economy and data centre hub, the rapid growth of data centres, increasing cooling needs, and accelerating electric vehicle adoption are reshaping electricity demand patterns and placing new requirements on generation, transmission, and grid infrastructure. This session will examine how India can ensure access to affordable, reliable, and increasingly clean power to support these high-growth sectors while strengthening energy security and enabling sustainable economic growth. • Key Discussion Points: • Rising electricity demand and its implications for power system • Ensuring reliable, affordable, and clean power • Grid and infrastructure readiness to support concentrated, high-load electricity demand hubs • International best practices in dealing with increased power demand	

STATE SESSION	
1100- 1200 hrs	State Session- Madhya Pradesh

SESSION 15

Track: Clean Molecules & Industrial Transition

Sovereign Hall

1130 - 1215 hrs

Green Hydrogen & Derivatives: Building Global Partnerships and Trade Opportunities

Global momentum around green hydrogen is accelerating as countries pursue decarbonisation, energy security and industrial competitiveness objectives. Significant investments are being directed toward green hydrogen production, derivative fuels and export-oriented value chains. India has emerged as one of the most promising markets globally, supported by abundant renewable energy resources, strong policy backing and growing industrial demand. This session will assess the evolving global landscape, examine opportunities for India to establish leadership across the hydrogen value chain, and identify strategies for scaling investments, demand creation and international partnerships.

Key Discussion Pointers:

- Global and Indian green hydrogen market landscape
- Green hydrogen derivatives and value chain development
- Economics, investment and offtake mechanisms
- Lessons from pilot projects and early deployments
- International partnerships and export opportunities
- Building globally competitive hydrogen ecosystems

SESSION 16

Track: Clean Molecules & Industrial Transition

Sovereign Hall

1215-1300 hrs

Multi-Fuel Pathways for Secure and Innovative Mobility

Global mobility transition is being driven by a diverse portfolio of clean energy pathways. While electrification will remain a key pillar, achieving energy security, decarbonisation and economic competitiveness will require parallel deployment of multiple fuel options, including ethanol, biodiesel, compressed biogas, green hydrogen and other emerging low-carbon fuels.

The session will also celebrate the power of youth-led innovation through a special interaction with **Sea Sakthi**, the award-winning team from Kumaraguru College of Technology that received the prestigious **Prince Albert II Award** at the **13th Monaco Energy Boat Challenge 2026**.

Key Discussion Pointers:

- Strengthening energy security through fuel diversification
- Policy and regulatory frameworks to accelerate innovation and adoption
- Enabling infrastructure, standards, interoperability and consumer confidence
- Advancing industrial competitiveness and research & development

STATE SESSION	
1230- 1330 hrs	State Session- Odisha

1300 – 1400 hrs	NETWORKING LUNCH
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SESSION 17	
Track: Digital Energy Systems	
Sovereign Hall	
1400-1445 hrs	Demand Response 2.0: Leveraging Smart Meters, DT Meters and IoT for Flexible Power Systems
As electricity demand patterns evolve and renewable energy penetration increases, demand-side flexibility is becoming essential for grid stability and energy security. This session will examine how smart meters, distribution transformer (DT) meters, IoT technologies, and AI-powered analytics are transforming demand response programs into powerful tools for peak load management and system optimization. Discussions will highlight the role of dynamic pricing, Time-of-Day tariffs, and advanced load forecasting in addressing challenges such as the duck curve, reducing supply shocks, and minimizing dependence on costly backup power. The session will also explore how consumer participation and intelligent management of hybrid energy systems can enhance reliability, efficiency, and affordability across the power sector. Key Discussion Points: • Demand Response & Duck Curve Management: Using smart meters and dynamic pricing to optimize demand. • Demand Response and ToD tariffs as tools for peak load management and national energy security • AI-enabled load forecasting to minimize supply shocks and reduce reliance on costly backup power • Smart meters and IoT enabling consumer-side participation in grid stability and security • Managing hybrid energy systems for secure, reliable, and cost-efficient power supply	

SESSION 18

Track: Clean Power Systems

Sovereign Hall

1445-1530 hrs

Innovation, Efficiency & Scale: Maximising Solar Potential

With over 150 GW of installed capacity, solar energy has become a cornerstone of India's clean energy transition and energy security. As deployment accelerates, strengthening domestic manufacturing, improving efficiency, and driving innovation will be critical to sustaining growth. This session will explore advanced technologies such as perovskite and tandem solar cells, agrivoltaics, and next-generation manufacturing to improve performance and strengthen resilient supply chains. Discussions will also examine strategies to enhance competitiveness, reliability, and scalability across the solar value chain while reducing import dependence.

Key Discussion Points:

- Driving higher solar output through advanced technologies and innovative system design
- Exploring next-generation solar solutions, including perovskite, tandem cells, and agrivoltaics
- Accelerating solar deployment to meet growing electricity demand
- Strengthening domestic manufacturing and resilient supply chains
- Enhancing the reliability, competitiveness, and scalability of solar power

Special Session 19

Inspire Hall

1500-1530 hrs

Building Resilient Clean Energy Systems: A Case Study

Expanding renewable energy capacity requires building resilient energy systems. An integrated clean energy backbone combining hybrid power systems, intelligent grids, and secure supply chains is essential to deliver reliable, flexible and affordable clean power. This special presentation will showcase a case study highlighting best practices in clean energy infrastructure that contribute to the development of a future-ready power system capable of supporting sustainable economic growth.

SESSION 20

Track: Clean Molecules & Industrial Transition

Sovereign Hall

1530 - 1615 hrs

Electrons and Green Molecules: Pathways to Decarbonisation

As India advances towards its net-zero ambitions, industrial decarbonisation will require a dual transition. Under Mission Electrostate, industrial electrification can be scaled up. Simultaneously, adoption of green hydrogen and other green molecules for hard-to-abate sectors could be carried out. This session will explore how industrial electrification, green molecules, and enabling technologies can accelerate India's transition to a competitive, low-carbon industrial ecosystem.

Key Discussion Points:

- Industrial transition strategies and phased adoption models for Mission Electrostate 2045
- Adoption of green molecules for decarbonising hard-to-abate sectors
- Technology readiness, electrification pathways and integration challenges across industry
- Financing, bankability and demand aggregation to accelerate industrial decarbonisation
- Carbon markets, policy support and regulatory frameworks to enable industrial net zero
- Integrating renewable energy, digital technologies and smart manufacturing

SESSION 21

Track: Energy Security & Supply Chains

Sovereign Hall

1615 – 1715 hrs

Beyond Oil Shocks: Making Energy Diversification a Strategic Priority

An Interactive session with the Secretary, MoPNG, will examine diversification strategies for building a resilient energy system. It will also discuss accelerated deployment of renewables and emerging solutions such as green hydrogen and biofuels alongside conventional energy for preventing economic shocks.

Key Discussion Points:

- Navigating geopolitical risks and price volatility through a balanced and diversified energy mix
- Balancing conventional energy security with the rapid scale-up of renewables and low-carbon alternatives
- Exploring the strategic role of hydrogen, biofuels, and storage in enhancing resilience and reducing import dependence



Country Session	
1630 – 1800 hrs	Country Session- Brazil
1800 hrs	Event Concludes