MSME Chamber of Commerce and Industry of India

6th Global (Construction of India) SUSTAINABILITY SUMMIT & EXPO

<u>28th - 29th July 2025 at Vigyan Bhavan, New Delhi, India</u>

ON FOCUSSED SECTORS:

Plastic Pollution, Recycling, Packaging & Waste to Wealth E-waste Recycling, Role of Lithium Batteries in Climate Change Mitigation, Impact of Energy Storage on Electric Vehicles

Renewable Energy & Sustainable Energy (Oil & Natural Gas)



"Driving a sustainable future with innovative recycling, Eco-friendly packaging, plastic pollution control, and responsible waste management practices".

"Sustainable Mobility and Circular Solutions; E Waste, Lithium Batteries and Energy Storage in Electrical Vehicle Ecosystems" Renewable & Sustainable Energy Synergy:Unlocking Solar, Hydrogen, Biofuel,Oil & Natural Gas, Biogas for a Decarbonized World, Innovations, Technology & Energy Efficiency for a Sustainable Green Economy.

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MSMECCII

- Conference will be in 3 Parallel Halls
- Expacted Participants 2100 2500 in 2 days
- Supported by 6 Govt. Ministry
- Delegate registration already Started (Limited Seats) Early Bird Discount will be Closing on 31st March 2025
- Approx 25 Stalls of 3x2 6 SQM Will be available
- Top class eminent speakers approx 200+ will be Speaking from 7 Overseas
- Conference Take a way to be send to the Respective Ministry & Niti Aayog
- B2B & B2C meeting will be Organized

6th Global Sustainability Summit & Expo: Advancing Solutions for a Greener Future

The 6th Global Sustainability Summit & Expo brought together thought leaders, innovators, policymakers, and industry experts to address some of the most critical environmental challenges of our time. The event focused on a diverse range of sectors including plastic pollution, recycling, packaging, waste-to-wealth, e-waste recycling, lithium batteries, electric vehicles (EVs), green/solar energy, hydrogen, biofuel, biogas, Oil & Natural Gas and industry decarbonization. Each of these topics plays a crucial role in advancing sustainability, combating climate change, and promoting a circular economy.

One of the key themes of the summit was **plastic pollution**, which continues to be a global environmental crisis. Experts discussed innovative solutions to reduce plastic waste, including the development of biodegradable alternatives, advanced recycling technologies, and global efforts to reduce plastic consumption. The summit also highlighted the importance of **recycling and packaging innovations**, with a focus on creating systems that not only reduce waste but also promote resource recovery through circular economy models.

E-waste recycling was another focal point, with discussions around the environmental hazards posed by the improper disposal of electronic devices. The summit emphasized the need for responsible e-waste management and the development of efficient recycling technologies to recover valuable materials and reduce landfill waste. Similarly, **lithium batteries** were discussed in the context of their role in energy storage solutions for **electric vehicles (EVs)** and their broader implications for **climate change mitigation.** The growth of EV adoption, supported by advancements in lithium-ion batteries, is seen as a key strategy for reducing carbon emissions from the transportation sector.

A major highlight of the event was the emphasis on **renewable energy sources**, particularly **green and solar energy**, which are essential for reducing reliance on fossil fuels and advancing decarbonization efforts. The summit also explored the potential of **hydrogen**, **biofuels**, and **biogas** as sustainable alternatives for powering industries and transportation while reducing emissions. As part of the broader conversation on **industry decarbonization**, leaders discussed the critical need for businesses to adopt cleaner, energy-efficient technologies to meet global climate goals.

In conclusion, the 6th Global Sustainability Summit & Expo showcased the critical importance of cross-sector collaboration and innovation in driving the transition toward a more sustainable, low-carbon future. By addressing the challenges and opportunities across these interconnected sectors, the summit reinforced the urgent need for collective action to protect the planet and ensure a sustainable future for generations to come.

MSME CHAMBER OF COMMERCE & INDUSTRY OF INDIA



6 GLOBAL SUMMIT & EXPO

Renewable & Sustainable Energy (Oil & Natural Gas)

28^{th -} 29th July 2025

Vigyan Bhavan, New Delhi



Advancing Renewable & Sustainable Energy Solutions: Solar, Biofuels, Biogas, Hydrogen, Oil & Natural Gas and Decarbonizing Industries for a Greener Future.

CONFERENCE Chair Welcome Message



Welcome to the Renewable & Sustainable Energy Conference: Fostering a Future of Clean Energy and Decarbonisation

Ladies and Gentlemen, esteemed speakers, distinguished guests, and fellow colleagues

It is with great pleasure and anticipation that I welcome you to this pivotal event – the Renewable & Sustainable Energy Conference, focused on Solar Energy, Hydrogen, Biofuels, Biogas, and Industry Decarbonisation. We are gathered here today as part of a global community that is working relentlessly to tackle one of the most significant challenges of our time – the transition to a sustainable, low-carbon future. Our world is undergoing an unprecedented transformation in the way we produce, consume, and manage energy. As we face the urgent challenges of climate change, resource depletion, and environmental degradation, the need for clean, renewable energy solutions has never been more critical. This conference is an essential platform to explore the innovative technologies, strategies, and policies that can accelerate our transition to a sustainable energy future.

The Role of Renewable Energy in Global Sustainability

Renewable energy sources such as solar, hydrogen, biofuels, and biogas hold immense potential to not only reduce our dependence on fossil fuels but also to mitigate the harmful effects of climate change. The rapid advancements we have seen in solar energy technology, in particular, have made it one of the most cost-effective and widely adopted renewable energy sources globally. Meanwhile, hydrogen – often referred to as the "fuel of the future" – offers tremendous promise as a clean energy carrier, particularly in hard-to-decarbonise sectors such as heavy industry, transportation, and power generation.

Biofuels and biogas, produced from organic materials, represent crucial solutions for sectors like aviation, agriculture, and waste management. These technologies are not only contributing to cleaner energy production but also enabling a more circular economy by utilizing waste materials to generate valuable resources. The decarbonisation of industries, including steel, cement, and chemical manufacturing, represents a critical challenge, and it is only through the adoption of sustainable energy technologies that we can achieve a net-zero future. Today, we come together to address these opportunities and challenges. Over the next two days, we will hear from leading experts, innovators, and thought leaders who are driving advancements in these fields. We will also have the opportunity to engage in critical discussions about the barriers we face in scaling up renewable energy solutions, the policy frameworks needed to support them, and the strategies for decarbonising industries. Together, we will explore how each of us can contribute to shaping the future of energy.

The Power of Collaboration

The transition to a renewable energy future is not something that can be achieved in isolation. It requires collaboration across industries, governments, researchers, and civil society. The challenges and opportunities in solar energy, hydrogen, biofuels, biogas, and industrial decarbonisation are complex and multifaceted, and the solutions will require concerted effort, creativity, and cross-disciplinary cooperation.

This conference provides an invaluable opportunity for all of us to come together, share knowledge, forge new partnerships, and learn from one another. Whether you are here as a researcher, policy-maker, entrepreneur, investor, or energy professional, your contribution is crucial to the success of our shared mission. The dialogue we engage in over the next two days will help set the stage for actionable strategies, innovative solutions, and the creation of a sustainable energy ecosystem.

Looking Forward to an Engaging and Productive Conference

I encourage each of you to take full advantage of the wide range of sessions, workshops, and networking opportunities available throughout the conference. From the deep dive into solar technology and hydrogen production methods to the discussion on biofuel sustainability and industrial decarbonisation strategies, there will be ample opportunities to learn from world-class experts, exchange ideas, and explore potential collaborations.

Our speakers and panelists are at the forefront of their respective fields and will provide us with insights that can help us understand both the current landscape and the future of renewable energy. Their experience and vision are integral to shaping the strategies we need to accelerate the adoption of clean energy technologies worldwide.

The diversity of participants in this conference – from startups to multinational corporations, from government representatives to non-governmental organizations – reflects the universal importance of renewable energy and the collective action required to address the climate crisis. Whether through sharing research findings, discussing new policy frameworks, or exploring investment opportunities, the conversations we have here will help to move the needle toward a sustainable, decarbonised future.

As we embark on these discussions, let us remember that the transition to renewable energy is not just a technical challenge, but a moral imperative. We are not only creating a cleaner energy future but ensuring a better, more sustainable world for future generations. The choices we make today – in the technologies we adopt, the policies we support, and the collaborations we build – will define the energy landscape of tomorrow.

I encourage all of you to engage actively, think boldly, and act collectively. Together, we can tackle the most pressing energy challenges and shape the future of renewable energy. Once again, I would like to thank you all for being part of this important event. I look forward to the inspiring conversations and transformative collaborations that will emerge over the next two days.

Let us move forward with a sense of urgency, optimism, and determination. The future of renewable energy is bright, and it starts here, with all of you.

Thank you, and welcome to the Renewable & Sustainable Energy Conference!

Best Regards,

INDRAJIT GHOSH, GLOBAL CHAIRMAN

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THE IMPORTANCE AND FUTURE OF OIL AND GAS IN INDIA

✓ Introduction

The oil and gas industry remains a crucial pillar of India's energy security and economic development. As the third-largest consumer of energy globally, India's reliance on oil and gas is significant, contributing to industrial growth, employment, and infrastructure expansion. This paper explores the current importance of oil and gas in India and examines its future in the context of evolving global trends, policy shifts, and sustainable energy transitions.

The Importance of Oil and Gas in India

Economic Contribution: The oil and gas sector accounts for a substantial portion of India's GDP, supporting industries such as manufacturing, transportation, and power generation. With increasing urbanization and industrialization, demand for petroleum products continues to rise.

Energy Security: Oil and gas remain primary energy sources, meeting over 70% of the country's energy needs. The reliance on imports, particularly crude oil, necessitates strategic partnerships and domestic exploration efforts.

Employment Generation: The industry employs millions, both directly and indirectly, across refining, distribution, and service sectors, making it a key contributor to job creation.

Industrial and Infrastructural Growth: The sector supports essential industries like petrochemicals, fertilizers, and transportation, which depend heavily on oil and natural gas supplies.

Foreign Exchange and Investment: The government's initiatives, such as the Hydrocarbon Exploration and Licensing Policy (HELP) and the Open Acreage Licensing Policy (OALP), encourage foreign and domestic investments, strengthening India's energy market.

🧭 The Future of Oil and Gas in India

Exploration and Production Expansion: India is actively promoting domestic exploration to reduce import dependency. The government's push for new discoveries in regions like the Krishna-Godavari and Mumbai basins aims to bolster production.

Technological Advancements: Innovations in extraction techniques, such as hydraulic fracturing and deep-water drilling, enhance efficiency and production capacity.

Renewable Energy Integration: While oil and gas remain dominant, India is diversifying its energy mix. The rise of renewables, including solar and wind, aims to reduce carbon emissions and enhance sustainability.

Natural Gas as a Transition Fuel: The government is promoting natural gas as a cleaner alternative, with initiatives like the expansion of the city gas distribution (CGD) network and the increase of LNG infrastructure.

Policy and Sustainability Initiatives: India's commitment to achieving net-zero emissions by 2070 requires a strategic shift in the oil and gas sector. Policies focusing on biofuels, hydrogen production, and carbon capture will play a critical role in shaping the industry's future.

Geopolitical and Economic Factors: Global oil price fluctuations, trade agreements, and geopolitical stability will influence India's import strategies and investment in alternative energy solutions.

Conclusion

Oil and gas will continue to be vital for India's economy and energy security in the near future. However, the industry must adapt to a rapidly changing global landscape by embracing technological advancements, diversifying energy sources, and implementing sustainable practices. Strategic investments, policy reforms, and a commitment to cleaner energy solutions will determine the sector's long-term viability, ensuring India's energy independence and economic resilience.







OIL AND GAS CONFERENCE: KEY FOCUS AREAS AND SIGNIFICANCE

The oil and gas industry is at a pivotal moment, navigating global energy demands, sustainability challenges, and technological advancements. An oil and gas conference serves as a crucial platform for industry leaders, policymakers, and stakeholders to discuss innovations, regulatory frameworks, and future strategies. Here are the key focus areas for such a conference:

I. Energy Transition and Sustainability

With the global push toward net-zero emissions, discussions should center on reducing carbon footprints, adopting renewable energy sources, and integrating sustainable practices in exploration and production. Topics such as carbon capture, hydrogen energy, and biofuels should take precedence.

2. Digital Transformation in Oil & Gas

Technology is reshaping the industry through AI, IoT, and blockchain applications. Sessions should highlight how digital twin technology, predictive maintenance, and automation can optimize production efficiency, enhance safety, and reduce operational costs.

✓ 3. Future of Exploration and Production

As reserves deplete, innovative extraction methods and enhanced oil recovery (EOR) techniques are essential. Discussions on deepwater drilling, unconventional resources, and shale gas exploration should be part of the agenda.

4. Market Trends and Investment Opportunities

Industry experts and financial analysts should provide insights into price fluctuations, investment trends, and geopolitical factors influencing oil markets. Strategies for attracting investment in a transitioning energy sector should also be explored.

✓ 5. Environmental, Social, and Governance (ESG) Compliance

With increasing environmental scrutiny, the conference should emphasize corporate social responsibility (CSR), regulatory compliance, and ESG policies. Sustainable operational practices and emissions reduction strategies should be key discussion points.

6. Infrastructure and Supply Chain Resilience

Given the disruptions caused by geopolitical tensions and pandemics, addressing supply chain vulnerabilities, pipeline security, and refining capacities is vital to ensure energy security and market stability.

7. Workforce Development and Safety Standards

The industry's workforce must evolve with emerging technologies. Conferences should cover skill development, safety regulations, and strategies to attract new talent while ensuring a safe working environment.

Conclusion

An oil and gas conference should act as a catalyst for industry growth by fostering innovation, sustainability, and collaboration. As the sector undergoes rapid transformation, stakeholders must align on policies, technologies, and investments to ensure a resilient and sustainable energy future.



MARKET ANALYSIS REPORT : RENEWABLE & SUSTAINABLE ENERGY

Overview:

The global renewable and sustainable energy market is experiencing rapid growth, driven by increased demand for clean energy solutions, government policies supporting green energy transitions, and technological advancements. Renewable energy sources, such as solar, wind, hydroelectric, and biomass, are projected to be central to global energy strategies as countries work toward achieving carbon neutrality and reducing dependence on fossil fuels.

Market Drivers:

• Environmental Concerns: Growing awareness about climate change and the environmental impact of fossil fuels is a key factor pushing the shift towards renewable energy. Governments are enacting stringent regulations and setting ambitious emissions reduction targets, further boosting demand.

• Technological Advancements: A major expectation is to explore advancements in hydrogen production, particularly green hydrogen, and related technologies for storage, distribution, and utilization across sectors such as industry, transport, and energy.

• Government Policies and Incentives: Many countries have implemented favorable policies, subsidies, and tax incentives to encourage investment in renewable energy projects. This includes initiatives like feed-in tariffs, renewable energy targets, and carbon pricing.

•Energy Security: Renewables offer energy independence by reducing reliance on imported fossil fuels. This is especially relevant for countries seeking to ensure long-term energy security amid geopolitical tensions.

Market Segments:

• Solar Energy: Solar power continues to dominate the renewable energy landscape, with falling installation costs, efficient photovoltaic cells, and large-scale solar farms driving growth. The residential and commercial solar markets are also expanding due to lower capital expenditures and improved energy storage options.

• Wind Energy: Wind energy, both onshore and offshore, is growing rapidly. Offshore wind projects, in particular, are gaining traction due to their high energy potential and technological improvements, such as floating turbines.

• Hydropower: Hydropower remains a key player in renewable energy, providing stable, baseload power. However, the growth potential is limited due to geographical and environmental constraints.

• Bioenergy & Geothermal: Biomass, biofuels, and geothermal energy are gaining attention as viable options for specific sectors like transportation and industry, providing renewable alternatives to fossil-based fuels.

Market Challenges:

• Intermittency and Storage: Renewable energy sources like solar and wind are intermittent, creating challenges for grid reliability and stability. Advances in energy storage technologies, such as lithiumion batteries, are helping mitigate this issue, but the costs of large-scale energy storage remain a challenge. • High Initial Investment: Although the long-term operational costs of renewable energy systems are low, the initial capital investment can be high, especially for infrastructure-heavy technologies like offshore wind farms and solar power plants.

• Regulatory and Market Barriers: Regulatory hurdles, inconsistent policy frameworks, and market structures that favor fossil fuels can slow the adoption of renewable energy. Transitioning to green energy also involves significant infrastructure changes, which may face resistance in some regions.

Market Outlook:

• The global renewable energy market is expected to continue its growth trajectory, with projections indicating a compound annual growth rate (CAGR) of around 8-10% through 2030. Increased investment in green technologies, coupled with escalating climate goals, will propel the market further. Innovations in energy storage, grid management, and decentralized energy systems will enhance the flexibility and efficiency of renewable energy, making it a central component of future energy mixes.

Conclusion:

• Renewable energy presents substantial opportunities across multiple sectors, providing a sustainable, low-carbon alternative to traditional energy sources. Continued investment in infrastructure, research and development, and supportive government policies will play critical roles in realizing the full potential of the renewable energy market, paving the way for a greener, more resilient global energy landscape.

OBJECTIVES OF MSMECCII

- Promote collaboration between government, academia, and the private sector.
- Explore the role of bioenergy in achieving India's renewable energy goals.
- Showcase advancements in bioenergy technologies and systems.
- Discuss regulatory, policy, and financial frameworks for scaling bioenergy solution.



ABOUT »»

Conference on Renewable & Sustainable Energy: Focus on Solar Energy, Hydrogen, Biofuels, Biogas, and Industry Decarbonisation

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The two-day conference on Renewable & Sustainable Energy, which brought together leading experts, industry practitioners, policymakers, and innovators, was a comprehensive event aimed at addressing the challenges and opportunities within the renewable energy sector. The discussions centered around four key themes: Solar Energy, Hydrogen, Biofuels, Biogas, and Industry Decarbonisation. The conference served as a platform to foster knowledge exchange, innovation, and collaboration, ultimately contributing to a sustainable energy future.

Solar Energy and Hydrogen

The first day of the conference focused primarily on solar energy and hydrogen technologies, which are among the most promising solutions to the global transition towards sustainable energy systems.

Solar Energy: Trends, Innovations, and Market Expansion

The opening sessions of the conference were dedicated to solar energy, which remains one of the most widely adopted renewable energy sources. Leading solar experts discussed the advancements in photovoltaic (PV) technologies, which have made solar power increasingly affordable and efficient. Notably, the global cost of solar panels has drastically decreased over the past decade, making solar energy more accessible to both developed and developing ••••••••••••• nations. 0

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Several panels also addressed the challenges of integrating solar power into the grid, particularly in regions with intermittent sunlight. Innovations such as advanced energy storage solutions, including lithium-ion batteries and emerging technologies like solid-state batteries, were highlighted as key to overcoming this hurdle. Additionally, participants examined the growing role of decentralized solar power systems, such as residential rooftop solar installations and community solar programs, which have democratized access to clean energy. Discussions also revolved around the environmental benefits of solar energy. Aside from reducing carbon emissions, solar energy installations have the potential to drive economic growth, creating thousands of jobs in installation, manufacturing, and maintenance. A significant emphasis was placed on the potential of solar energy to power emerging economies and remote regions that are currently without reliable access to electricity.

Hydrogen: The Future of Clean Energy

Hydrogen, often referred to as the "fuel of the future," was another key focus of Day 1. Experts discussed hydrogen's potential role in decarbonizing various sectors, including heavy industry, transportation, and power generation. Hydrogen fuel cells, which produce electricity by combining hydrogen and oxygen, were highlighted as a potential game-changer for sectors like aviation, shipping, and long-distance trucking, where battery technology has limitations due to energy density.

The conference featured numerous case studies on hydrogen production methods, particularly green hydrogen, which is produced through electrolysis powered by renewable energy sources like solar or wind. Green hydrogen is gaining traction as a clean alternative to traditional hydrogen production methods, such as those that rely on natural gas (gray hydrogen). However, challenges related to the high cost of production and scaling up infrastructure were discussed, with experts emphasizing the need for further research, government support, and private investment to make hydrogen a commercially viable and scalable energy solution.

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An interesting aspect of the hydrogen discussions was the concept of "hydrogen hubs," where multiple industries and sectors collaborate to produce, store, and utilize hydrogen. These hubs are seen as potential accelerators for the global hydrogen economy, bringing together public and private entities to create more integrated and cost-efficient hydrogen ecosystems.

Biofuels, Biogas, and Industry Decarbonisation

Day 2 of the conference focused on biofuels, biogas, and the broader concept of industry decarbonisation. These discussions were crucial in addressing the challenge of reducing emissions from sectors that are difficult to electrify, such as agriculture, heavy industry, and transportation.

Biofuels: Sustainable Alternatives for Transportation and Industry

Biofuels, derived from organic matter such as crops, waste, and algae, are already a significant part of the renewable energy landscape. The conference explored how biofuels can be used as a sustainable alternative to traditional fossil fuels in sectors such as aviation, shipping, and road transportation. Experts outlined the latest advancements in biofuel production, including second- and third-generation biofuels, which are made from non-food sources such as agricultural waste and algae, mitigating concerns over food security and land use.

The discussions also touched on the importance of improving biofuel efficiency and scaling up production to meet the growing global demand. Challenges, including feedstock availability, cost competitiveness, and the environmental impact of large-scale biofuel production, were also addressed. In particular, the conference underscored the need for stricter sustainability criteria to ensure that biofuels do not inadvertently contribute to deforestation, land degradation, or increased water consumption.

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Circular Approach to Energy Production

Biogas, produced through the anaerobic digestion of organic waste, was another topic of interest on Day 2. The circular economy potential of biogas was highlighted, as it not only provides a renewable source of energy but also helps manage organic waste from agricultural, industrial, and municipal sources. Biogas can be used for electricity generation, heating, and even as a fuel for vehicles, making it a versatile renewable energy source. A significant portion of the biogas discussions focused on the technology and infrastructure required for scaling up biogas production. Innovations in waste-to-energy plants and biogas upgrading technologies, which purify biogas to produce biomethane (a natural gas equivalent), were presented as essential steps toward increasing biogas's contribution to the global energy mix.

Industry Decarbonisation: Strategies and Roadmaps

The final session of the conference addressed the critical issue of industry decarbonisation. Industrial sectors, including steel, cement, and chemical manufacturing, are responsible for a significant portion of global carbon emissions. As such, achieving net-zero emissions will require innovative solutions and a major shift in the way industries operate. Panelists discussed a range of strategies for decarbonising industries, including the use of low-carbon technologies, energy efficiency improvements, and carbon capture and storage (CCS). Transitioning to renewable energy sources, such as solar and wind, was also emphasized, particularly in sectors where direct electrification is possible. However, for certain industries, such as steel production, the need for alternative approaches like hydrogen-based direct reduction processes was identified as a key solution for reducing emissions.

The importance of policy support, including carbon pricing, regulations, and incentives for green innovation, was also stressed. Governments and corporations must work together to set clear decarbonisation targets and create financial mechanisms to help industries transition to low-carbon alternatives.

BENEFITS OF ATTENDING A RENEWABLE & SUSTAINABLE ENERGY BELOW ARE THE KEY BENEFITS OF ATTENDING SUCH A CONFERENCE

- Access to Cutting-Edge Knowledge and Innovations
- Networking Opportunities
- In-depth Understanding of Market Trends and Opportunities
- Insights into Policy and Regulatory Developments
- Opportunities for Professional Development
- Collaboration on Industry Decarbonisation Strategies
- Access to New Funding and Investment Sources
- Enhanced Competitive Advantage
- Inspiration for Innovation and New Ideas
- Contribution to Global Sustainability and Climate Goals
- A Platform for Government and Industry Collaboration

Environmental Sustainability

Green and solar energy reduce reliance on fossil fuels, curbing air pollution and mitigating climate change.

Energy Independence

Renewable energy sources, like solar, decrease dependence on imported fuels, enhancing energy security.

Economic Growth

Investment in renewable energy creates jobs and drives innovation in technology and infrastructure.

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Versatile Hydrogen Applications

Hydrogen can be used in fuel cells, transportation, and industrial processes, offering a clean energy alternative.

Decarbonization Goals

Reducing carbon emissions across sectors contributes to global climate targets, including net-zero goals.

Key Highlights 渊

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Presentation of cutting-edge solar technologies and solutions.

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Innovations in hydrogen fuel production, storage, and applications.

03._

Showcases of decarbonization strategies across various industries.

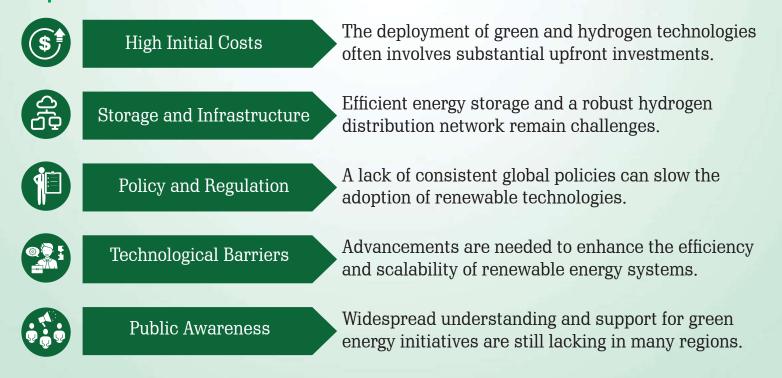
04.____

Interactive workshops on implementing renewable energy systems.

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Networking opportunities with global leaders in the energy transition.

Challenges



Conference Sessions

- 1. Biofuels, Bioenergy and Sustainable Nuclear Energy.
- 2. Biodiversity.
- 3. Carbon capture and storage (CCS)
- 4. Chemical Applications in Producing Oil and Gas.
- 5. Climate Change Challenges & Sustainability.
- 6. Combustion Engines & Electrical Vehicles.
- 7. Development and Utilization of Biomass Energy.
- 8. Ecosystems Assessment.
- 9. Electrical Batteries for Renewable Energy.
- 10. Energy Storage, Generation and Transmission.
- 11. Energy-efficient Lighting Products and Technologies.
- 12. Environmental Analysis and Monitoring.
- 13. Environmental Chemistry and Biology.
- 14. Environmental Impact and Sustainability.
- 15. Environmental Safety and Health.
- 16. Fossil and Radioactive Fuels.
- 17. Fuel Chemistry, Technology & Processing.
- 18. Geothermal Applications.
- 19. Geothermal Heating and Heat Pumps.
- 20. Green Building Materials and Energy-saving Buildings.
- 21. Green Technology
- 22. Hybrid Renewable Energy Approaches
- 23. Hydro Power Generation and Geothermal Energy
- 24. Energy-efficient Lighting Products and Fuel Cell

Who Should Attend

- Renewable energy companies and technology providers.
- Policymakers, regulators, and government representatives.
- Industry leaders in energy, transportation, and manufacturing sectors.
- Researchers, academicians, and environmental advocates.
- Entrepreneurs and startups in clean energy and decarbonization.
- Investors and stakeholders looking for sustainable energy projects.
- Media and Communication Professionals
- Consultants and Supply Chain Experts
- NGOs and Environmental Organizations
- Banks and Financial Institutions
- Startups and Entrepreneurs
- Industry Leaders and Corporations
- Regulators and Environmental Agencies
- Energy Industry Professionals

Why to Attend

Renewable & Sustainable Energy focused on Solar Energy, Hydrogen, Biofuel, Biogas & Industry Decarbonisation



Why to Attend

Renewable & Sustainable Energy focused on Solar Energy, Hydrogen, Biofuel, Biogas & Industry Decarbonisation

- 1 Access to Cutting-Edge Knowledge and Innovations
- 2 Networking Opportunities with Industry Leaders
- 3 Understanding Market Trends and Policy Developments
- 4 Learn from Industry Experts and Thought Leaders
- **5** Opportunity for Professional Development
- 6 Discover Investment and Funding Opportunities
- 7 Collaborate on Industry Decarbonisation Strategies
- 8 Explore Multi-Sector Collaboration and Synergies
- 9 Contribute to Climate Change Mitigation Efforts
- **10** Gain a Competitive Edge in a Growing Industry
- **11** Career Growth
- **12** Inspiration & Motivation

RENEWABLE & SUSTAINABLE ENERGY SYNERGY: UNLOCKING SOLAR, HYDROGEN, BIOFUEL, BIOGAS FOR A DECARBONIZED WORLD, INNOVATIONS, TECHNOLOGY & ENERGY EFFICIENCY FOR A SUSTAINABLE GREEN ECONOMY.

Participants will gain from the event

A Global Conference on Renewable & Sustainable Energy focused on Solar Energy, Hydrogen, Biofuels, Biogas, and Industry Decarbonization, participants are likely to have a range of expectations depending on their roles and areas of interest. Below are the key expectations that attendees might have from such an event:

I. Cutting-Edge Innovations and Technological Advancements:

• Solar Energy Technologies: Participants will expect to learn about the latest breakthroughs in solar technology, such as improved solar panel efficiency, advanced solar storage solutions, and new applications like solar for agriculture (e.g., agrivoltaics) or building-integrated photovoltaics (BIPV).

• Hydrogen Innovations: A major expectation is to explore advancements in hydrogen production, particularly green hydrogen, and related technologies for storage, distribution, and utilization across sectors such as industry, transport, and energy.

• Biofuels and Biogas Technologies: Attendees will anticipate discussions on the next generation of biofuels (e.g., algae-based, advanced ethanol) and biogas production techniques that can be scaled up to decarbonize sectors like transportation, agriculture, and industry.

• Energy Storage Solutions: Given the intermittent nature of renewable energy sources, participants will expect to learn about cutting-edge energy storage solutions that enable effective integration of renewables into the grid, such as battery storage, pumped hydro, and hydrogen storage.

2. Policy and Regulatory Insights:

• Government Policies & Incentives: Participants, particularly from government and industry sectors, will look for updates on international, national, and local policies that support the adoption of renewable energy. This includes tax incentives, subsidies for clean energy projects, renewable energy standards, and carbon pricing mechanisms.

• Regulatory Challenges and Solutions: Many attendees will expect discussions on the challenges around regulating renewable energy technologies and the policy frameworks needed to scale them effectively. This includes debates on grid integration, energy market reform, and support for green hydrogen and biofuels.

• Global Climate Agreements: Policymakers will look for progress on global climate agreements such as the Paris Agreement, and how these impact energy transitions and decarbonization goals. Participants will also hope for international commitments that will accelerate investment in renewable energy infrastructure.

3. Industry Decarbonization Strategies:

• Decarbonizing Hard-to-Abate Sectors: Industries such as steel, cement, and chemicals are challenging to decarbonize. Attendees will expect detailed discussions on how renewable energy (e.g., green hydrogen) and other technologies can be applied to these industries to reduce carbon emissions.

• Energy Efficiency in Industry: Participants will expect to hear about advancements in energy efficiency technologies that reduce energy consumption while integrating renewable sources. This includes process optimization, digitalization, and AI-driven systems that enhance industrial operations.

• Carbon Capture and Storage (CCS): For industries that remain reliant on fossil fuels, carbon capture and storage technologies will be a key focus, with attendees seeking insights into scaling up CCS and its role in the decarbonization process.

✓ 4. Global Partnerships and Collaborative Solutions:

• Cross-Sector Collaboration: There will be an emphasis on collaboration between governments, industries, NGOs, and academia to accelerate the deployment of renewable energy solutions. Partnerships will be expected to focus on technology transfer, scaling up projects, and addressing barriers to widespread adoption of renewables.

• Public-Private Partnerships (PPPs): Attendees will expect discussions on PPPs that can help bridge the financing gap for renewable energy projects, especially in developing countries where access to capital may be limited.

• International Cooperation on Clean Energy: Participants will anticipate conversations around global cooperation, especially in facilitating the transfer of clean technologies to emerging markets and coordinating efforts to address cross-border energy challenges, such as grid interconnection and energy security.

5. Investment and Financing Opportunities:

• Attracting Investment: Investors will seek insights on the most promising renewable energy sectors, including solar, hydrogen, and biofuels, and the economic viability of projects. They will also look for investment opportunities in energy storage and decarbonization technologies for industrial applications.

• Innovative Financing Models: There will be expectations for discussions on how to scale up financing for renewable energy projects, including green bonds, impact investment, and blended finance models that can attract private sector investments while meeting sustainability goals.

• Government and Multilateral Support: Many participants will expect clarity on financial mechanisms, such as climate finance, that governments and multilateral organizations are providing to support renewable energy and decarbonization projects.

6. Technology Transfer and Capacity Building:

• Sharing Knowledge and Best Practices: Experts, researchers, and practitioners will expect the conference to offer a platform for sharing best practices, technical know-how, and successful case studies from different regions, industries, and technologies.

• Capacity Building for Emerging Markets: Many will expect discussions on building capacity in developing countries to adopt renewable energy technologies and support industry decarbonization. This could involve knowledge transfer, skill development, and training programs to help local communities implement and manage sustainable energy projects.

7. Sustainability and Environmental Impact:

• Lifecycle Impact of Renewable Technologies: Participants, especially from the environmental sector, will be looking for information on the full lifecycle impact of renewable energy technologies, from mining raw materials (such as for solar panels and batteries) to end-of-life recycling and waste management.

• Circular Economy in Renewables: Discussions on the circular economy in the renewable energy sector, such as how to reuse and recycle materials from solar panels, batteries, and wind turbines, will be crucial to minimizing environmental footprints.

• Mitigating Environmental Impacts: Attendees will expect conversations around addressing environmental concerns related to the deployment of renewable energy technologies, such as land use, water consumption, and biodiversity impacts.

8. Consumer Engagement and Adoption:

• Increasing Renewable Energy Adoption: Attendees will look for strategies to encourage the adoption of renewable energy by consumers and businesses. This includes incentives for residential solar energy, electric vehicle adoption, and green energy plans offered by utilities.

• Community-Level Solutions: There will be a focus on how community solar projects, microgrids, and off-grid solutions can provide affordable and sustainable energy in rural or underserved areas.

• Educating the Public on Decarbonization: Participants will anticipate discussions on public awareness and educational campaigns that inform consumers about the importance of switching to renewable energy sources and adopting energy-efficient practices.

9. Energy Storage and Grid Integration:

• Grid Flexibility and Reliability: With the increasing share of renewable energy in power grids, participants will expect discussions on how energy storage systems (such as batteries and pumped hydro) can enhance grid stability and ensure a reliable power supply.

• Integrating Renewables with Traditional Energy Systems: There will be a need for discussions on the technical challenges and solutions for integrating intermittent renewable energy sources (solar and wind) with existing power grids, as well as how to manage peak demand and storage.

10. Actionable Outcomes and Future Roadmaps:

• Concrete Action Plans: Many attendees will look for concrete action plans or commitments from governments, industries, and other stakeholders on scaling up renewable energy technologies, decarbonizing industries, and meeting climate goals.

• Setting Clear Targets: Participants will expect to hear about future targets, milestones, and timelines for renewable energy adoption and industry decarbonization at global, national, and sectoral levels. By addressing these expectations, the conference can play a pivotal role in advancing renewable energy solutions, fostering international cooperation, and enabling the transition to a sustainable, low-carbon global economy.







GLOBAL SUSTAINABILITY CONCLAVE

Jointly Organising with World Grexpo Foundation, SEPC (Service Export Promotion Council under Ministry of Commerce and Industry Govt. of India, Delhi)

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Diamond Sponsor	7.5 Lacs + 18% Gst	\$ 11,239	8
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Bronze Sponsor	2 Lacs + 18% Gst	\$ 2,810	2
Stall (size-4,6,9,12 sqm)	14,000 /sqm+ 18% Gst	\$ 253	1
Standees Rate	10,000 + 18% Gst	\$ 141	NIL
Mug Sponsor	1.5 Lacs + 18% Gst	\$ 2,108	1
Conference Souvenir Sponsor	2.5 Lacs + 18% Gst	\$ 3,512	2
Souvenir Front Page	50,000 + 18% Gst	\$ 703	NIL
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Souvenir full page advertisement	10,000 + 18% Gst	\$ 141	NIL
Souvenir half page advertisement	5,000 + 18% Gst	\$ 71	NIL
Plastic Recycling partner	3 Lacs + 18% Gst	\$ 4,215	3
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Green/Solar Energy Partner	3 Lacs + 18% Gst	\$ 4,215	3
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Decarbonization Partner	3 Lacs + 18% Gst	\$ 4,215	3
Supporting Logo	20,000 + 18% Gst	\$ 281	NIL
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One Day Tea /Coffee/Snacks Sponsor	1 Lacs + 18% Gst	\$ 1,405	1
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Circular Economy Partner	2 Lacs + 18% Gst	\$ 2,810	2
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Awardee + 1	6,000 + 18% Gst	\$ 85	NIL

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Promotional Banner	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	X
Advertisement in our conference souvenir			\checkmark		\checkmark		\checkmark
Advertisement logo on Invitation Card			\checkmark		X	X	X
Conference kit Bag			\checkmark	\checkmark	\checkmark		\checkmark
Speaking Opportunity							X
Interview with Paper or Magazine or TV						X	X
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Flex Banner During Conference			\checkmark		\checkmark		\checkmark
Advertisement all social media	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
Article Publish in Souvenir			\checkmark		\checkmark		X
Complementary delegate pass	10 PASS	07 PASS	06 Pass	05 Pass	04 Pass	03 PASS	02 PASS
Cocktail & Dinner	10 PERSON	07 PERSON	06 PERSON	05 PERSON	04 PERSON	03 PERSON	02 PERSON
Complementary Exhibit display space	12 SQM	9 SQM	6 SQM	6 SQM	6 SQM	X	X
Logo branding pre-event promotion			\checkmark		X	X	X
AV During breaks on the event	<	>	\checkmark	X	X	X	X
Memberships Complementary	5 YEARS	3 YEARS	2 YEAR	1 YEAR	X	X	X
Photo Album sharing			\checkmark		\checkmark		\checkmark
Lunch / Tea, Coffee, Snacks	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Video Promoted in social media						X	X
Standee during conference	8	6	5	4	3	2	1
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MSME CHAMBER OF COMMERCE AND INDUSTRY OF INDIA

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<u>28th - 29th
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Govt. Ministry Confirmation Awaited

Ministry of New & Renewable Energy

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- All conference session times and locations will e listed online in the Scheduled Conference Section.
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- Speaker has to respect the duration/allotted time of the slot.
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"Renewable Energy Synergy: Unlocking Solar, Hydrogen, Biofuel and Biogas for a Decarbonized World "

Advancing Renewable & Sustainable Energy Solutions: Solar, Biofuels, Biogas, Hydrogen, and Decarbonizing Industries for a Greener Future.

Time	Agenda item
08:00 - 09:00	Registration, Networking and Tea / Coffee / Snacks Welcome coffee and tea with light refreshments.
09:00 – 9:15	 Opening Remarks & Conference Introduction Welcome Address by Conference Chair Overview of Conference Objectives Introduction to the critical importance of sustainable energy solutions and environmental protection.
9:15 – 10:00	Chief Guest Presentation
10:00 – 10:45	 Session 1: Biofuels and Bioenergy: Drivers for Sustainable Energy Solutions Overview of biofuels and bioenergy production Sustainable pathways for biomass energy Advances in biofuels for decarbonization Case studies in biofuel adoption for global sustainability Q&A session
10:45 – 11:45	 Session 2: Carbon Capture and Storage (CCS): Technology and Applications Introduction to CCS as a climate change mitigation tool Innovations in CCS technology and their role in reducing emissions Global CCS projects: Challenges and opportunities Panel discussion: Scaling up CCS for future energy systems

11:45 – 12:15	Tea / Coffee / Snacks & Networking Break
12:15 - 1:00	 Session 3: Chemical Applications in Oil and Gas Production Chemical processes in oil and gas extraction and production New technologies improving efficiency in extraction Environmental implications of chemical applications in fossil fuel industries Panel discussion: Bridging the gap between fossil fuels and renewables
01:00 - 02:00	Networking Lunch Lunch served with opportunities for networking
02:00 – 02:45	 Session 4: Climate Change Challenges & Sustainability The current global climate change landscape Key challenges in achieving sustainability goals Policies, innovations, and approaches to mitigating climate change Panel discussion: Pathways for aligning industries with sustainability goals

02:45 – 03:30	 Session 5: Combustion Engines & Electric Vehicles: Transitioning to Sustainable Mobility Role of combustion engines in climate change The future of electric vehicles in reducing emissions Transitioning from fossil fuel-powered engines to electric alternatives Case studies: Successful implementation of EV technologies
03:30 – 04:15	 Session 6: Biomass Energy: Development, Utilization, and Applications Biomass as a renewable energy source Technological advancements in biomass conversion Environmental impacts and benefits of biomass energy Panel discussion: The future of biomass energy and sustainable development
04:15 - 04:45	Tea / Coffee / Snacks & Networking Break
04:45 – 06:30	 Session 7: Biodiversity and Ecosystem Assessment for Sustainability * The importance of biodiversity in sustainable development * Ecosystem assessment methodologies * How biodiversity impacts energy systems and sustainability goals * Panel discussion: Integrating biodiversity conservation with sustainable energy strategies



"Renewable Energy Synergy: Unlocking Solar, Hydrogen, Biofuel and Biogas for a Decarbonized World "

Innovations in Energy Generation, Storage, Green Building, and Environmental Solutions

Time	Agenda Item
08:00 – 09:00	Registration, Networking and Tea / Coffee / Snacks Welcome coffee and tea with light refreshments.
09:00 – 9:15	 Opening Remarks & Conference Introduction Welcome Address by Conference Chair Overview of Conference Objectives Introduction to the critical importance of sustainable energy solutions and environmental protection.
9:15 – 10:00	Chief Guest Presentation
10:00 - 11:00	 Geothermal Energy: Applications and Future Prospects Introduction to geothermal energy generation Geothermal heating and heat pump technologies Applications in residential, industrial, and large-scale energy systems Panel discussion: The role of geothermal energy in decarbonization

11:00 – 11:45	 Session 10: Green Building Materials and Energy-Efficient Buildings Innovations in sustainable building materials Technologies for energy-efficient buildings and their impact on reducing carbon footprints The integration of renewable energy systems in green buildings Panel discussion: The future of energy-saving buildings and urban planning
11:45 – 12:15	Tea / Coffee / Snack / Break
12:15 - 01:00	 Session 11: Electrical Batteries for Renewable Energy Storage The role of batteries in integrating renewable energy into the grid Advancements in battery technologies for energy storage Case studies: Successful use of batteries in renewable energy systems Panel discussion: Overcoming challenges in battery storage and scaling for future energy needs
01:00 - 02:00	Lunch / Networking Lunch with time for further discussions and collaborations
02:00 – 03:00	 Session 12: Hybrid Renewable Energy Systems Introduction to hybrid renewable energy systems (solar-wind, bioenergy-storage) Benefits and challenges of hybrid systems Real-world applications of hybrid systems in different regions Panel discussion: How can hybrid solutions accelerate the clean energy transition?

03:00 – 03:45	 Session 13: Hydro Power Generation and its Role in Sustainable Energy Hydropower technology: Past, present, and future Innovations in small and large-scale hydro generation Environmental considerations and sustainability of hydropower Panel discussion: The evolving role of hydropower in a renewable energy mix
03:45 - 04:15	 Session 14: Energy-Efficient Lighting Products and Fuel Cells Introduction to energy-efficient lighting technologies How fuel cells contribute to clean energy solutions and transportation Combining energy-efficient lighting with renewable energy sources Panel discussion: The future of lighting products and fuel cells in sustainable energy systems
04:15 - 04:45	Tea / Coffee / Snack / Break
04:45 – 05:30	 Session 16: Fossil and Radioactive Fuels: Challenges in the Transition to Clean Energy The ongoing role of fossil and radioactive fuels in the global energy landscape Challenges and opportunities in reducing reliance on fossil fuels Bridging the gap between nuclear, fossil fuels, and renewable energy sources Panel discussion: Managing the transition to a cleaner energy future

05:30 – 06:30	 Session 17: Energy Storage, Generation, and Transmission: The Backbone of Renewable Energy Systems Key advancements in energy storage systems Innovations in energy generation and transmission infrastructure for renewable sources Smart grids and their role in optimizing energy flow from renewable sources Panel discussion: Overcoming infrastructure challenges for large-scale renewable adoption