



PHD CHAMBER
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PETRON SCIENTECH INC USA



4th International Climate Summit Decarbonizing Pathways

BIO ENERGY: PATH TO VIKSIT BHARAT

ENERGY SECURITY & AGRICULTURAL GROWTH
ACCELERATING GREEN TRANSITION OF MSMEs

19 July 2024

HOTEL TAJ PALACE, NEW DELHI

For Registration



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DECARBONIZING PATHWAYS

Decarbonization involves reducing or eliminating carbon dioxide (CO₂) emissions to mitigate climate change. This can be achieved through a variety of strategies across different sectors of the economy, Here are some of the key ways to decarbonize:



BIO ENERGY

Bio Ethanol and Bio Gas can play a crucial role towards decarbonization

LIFESTYLE CHANGES

Changing our lifestyle to focus more on regenerative leadership, circular economy and global peace



LiFE
Lifestyle for Environment



TREE PLANTATION

Planting more trees help create natural carbon sinks and reduce the overall concentration of greenhouse gases.



GLOBAL BIOFUEL ALLIANCE

Global Biofuel Alliance (GBA) is a dynamic initiative by our Hon'ble Prime Minister Shri Narendra Modi that brings together Governments, International organizations and Industry to facilitate adoption of biofuels and bringing together the biggest consumers and producers of biofuels to drive biofuels development and deployment. The initiative aims to position biofuels as a key to energy transition and contribute to jobs and economic growth.



“The launch of the Global Biofuels Alliance marks a watershed moment in our quest towards sustainability and clean energy.”

- PM Narendra Modi

It will help accelerate India's existing biofuels programs such as PM-JIVANYojna, SATAT and GOBARDhan scheme, thereby contributing to increase farmers' income, creating jobs and overall development of the Indian ecosystem.

The Global Biofuels Alliance (GBA) aims to boost sustainable biofuels globally. It focuses on capacity-building throughout the value chain to enhance efficiency and innovation. GBA's initiative aligns with the goal of increasing renewable energy in transport from 3% to 27% by 2050. GBA's strategy includes a virtual marketplace to connect supply and demand in the growing biofuel industry. This marketplace plays a key role in harmonizing global biofuel efforts as demand is expected to rise significantly by 2028.

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LIFESTYLE FOR ENVIRONMENT



LiFE
Lifestyle for Environment



Mission Lifestyle for Environment was introduced by the **PM Narendra Modi at COP26**, Glasgow in 2021 calling upon the global community to drive LiFE as a mass movement, drawing upon the centuries of ancient wisdom in mindful consumption



The importance of conserving our precious natural resources and living in harmony with nature are emphasised in our **ancient scriptures**. The 6 themes within LiFE beautifully capture the essence





CONTEXT BEHIND THE SUMMIT

We are delighted to announce the inauguration of the International Summit on Biofuels, marking a significant milestone following our esteemed Prime Minister's declaration of the Global Biofuel Alliance at the G20 Summit

This summit aims to highlight a crucial part of India's path towards achieving its decarbonization goals and promoting sustainable energy practices. As we advance towards a greener future, exploring avenues that align with our environmental goals and enhance our energy independence is essential. **Encouraging bioenergy production**, particularly through the use of non-edible corn for ethanol, offers a significant opportunity.

It is heartening to see the **notable progress in ethanol production**, demonstrated by reaching an 11.60% blending rate as of February 2023. However, to achieve our ambitious target of 20% blending by 2025, strategic interventions are necessary.

This requires the swift development of policies and incentives conducive to ethanol production from various raw materials.

Non-edible corn stands out as an especially promising source for bioethanol production due to its abundance and suitability. Introducing a policy for duty-free import of non-edible corn for five years could boost ethanol production capacity and encourage domestic corn cultivation, reducing future import dependence.

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CONTEXT BEHIND THE SUMMIT

Experience has shown that government initiatives to promote ethanol blending offer multiple benefits, including increased farmer income, creation of rural employment, and significant carbon emission reductions.



Furthermore, leveraging global partnerships, especially with major grain producers like the US, can aid in establishing biorefineries for ethanol production.

”

Additional income for farmers equivalent to planting 1.75 cr trees and foreign exchange savings of Rs 85000 cr

The US, a leading non-edible corn and grain exporter, would benefit from strengthened trade relations while supporting our ethanol production efforts.



SUMMIT OBJECTIVES



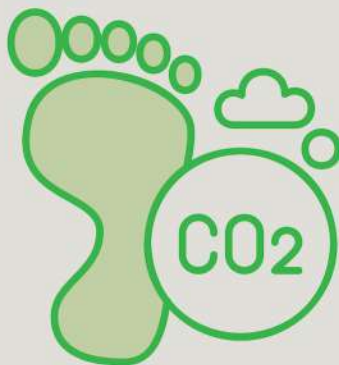
Boost Biofuel ecosystem

Through **collaborative dialogue** on next generation technologies and innovations in bioenergy, we aim to

- Set up 20-25 mega biorefineries within 2 years using non-edible corn and agro-waste, with capacities of 1250-1500 KLPD
- Catalyze a “corn revolution” to elevate India as a major global corn producer.

Empower Farmers & Drive Growth:

Recognizing bioenergy's intrinsic link to biomass and its dependence on agricultural growth, we aim to **increase farmers' incomes** through the cultivation of crops for bioethanol production. We will discuss pathways to rural prosperity through food-energy integration. The summit endeavors to foster **agricultural innovations**



Power exports and other industries

India has talent and geographical advantages to make ethanol production at the most competitive prices.

- Exporting bioethanol and Synthetic Aviation Fuel.
- Using ethanol as a raw material for the production of almost all chemicals, including petrochemicals

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KEY FOCUS AREAS



01

Agricultural
Sources for Bio-
Energy
production

02

Bio-Ethanol
Technological
developments
and Financial
Acceleration

03

International
Collaboration &
Partnerships

04

Govt. Policies,
Carbon
Mapping and
Trading



SUMMIT AGENDA



INAUGURAL SESSION	<p>Hon'ble Prime Minister of India is being invited to inaugurate the summit</p>
PLENARY SESSION	<p>Mr. Ajay Sood, Principal Scientific Advisor to Government of India Ms. Vartika Shukla, CMD, Engineers India Limited Mr. Erik Solheim, Former Executive Director, UN Environment Programme: (Topic: Bioenergy- Decarbonization Pathway) Dr. Sadesh Sookraj, Global Decarbonization Director, IFC Washington (Part of World Bank): (Topic: Role of Bioenergy in Decarbonization) Mr. Bryan K. Glover, Chief Growth Officer, Honeywell Performance Materials & Technologies US: (Topic: Biofuels from Agro Waste) Mr. Shrikant Madhav Vaidya, Chairman, Indian Oil Corporation Limited Mr. Arun Kumar Singh, Chairman & CEO, Oil and Natural Gas Corporation Mr. S. Bharathan, Director (Refineries), Hindustan Petroleum Corporation Limited </p>
TECHNICAL SESSIONS	<p>Role of Bioenergy in improving India's Agricultural Landscape Bio Refineries for Green/ Sustainable fuels</p> <ul style="list-style-type: none"> • Dr. R. K. Malhotra, President, Hydrogen Association of India • Mr. Alok Sharma, Director (R&D), Indian Oil Corporation Limited • Dr. K. K. Pant, Director, IIT Roorkee • Dr. R. P. Verma, Consultant (Formerly : Petrotech Chair Professor, IIT Delhi; Executive Director & Head – R&D, Indian Oil Corporation Limited; Chairman – Indian Oil Technologies Limited; Chairman – Indo Cat Pvt Limited - a JV of Intercat, USA & IOCL) •
VALEDICTORY SESSION	<p>Hon'ble Vice-President of India is being invited to deliver the valedictory address</p>



FINAL DELIVERABLES

This International Climate Change Summit is a continuous work in progress -The 4th edition of the summit is focused on Biofuels and it aims to deliver the following

01

Technology

Facilitate technology transfer and joint ventures (JVs) for next-generation technologies, such as 1.5G and 2G, to establish international-scale bio-refineries. Aim to create an ecosystem for setting up at least 20 mega biorefineries in the country.

02

Research and Development

Foster joint initiatives among academia, industry, and research institutions to tackle key scientific and technological challenges in areas such as Modern Compressed Biogas Bio-refinery, Synthetic aviation fuel, and low-carbon Hydrogen production

03

Best Practice Guidelines

Showcase best practice guidelines from successful bioenergy projects, policies, and initiatives worldwide. These guidelines can act as practical tools for policymakers, project developers, and investors

04

Investment Opportunities

Curate investment prospects, uses to connect bioenergy project developers with potential investors, financiers, and funding agencies.

05

Policy Recommendations

Synthesize insights from expert discussions and stakeholder inputs into policy briefs or recommendations for governments and policymakers



WHO SHOULD ATTEND



Academics,
Researchers and
Scholars



Bureaucrats &
Government
officials



Civil Society
representatives
(NGOs, Advocacy
groups and
think-tanks)



Diplomatic
Mission and
Trade Body
representatives



Ministerial
representatives



Policy Makers
and Sectoral
Advisors



PSU and Private
Sector Industry
Representatives
(MDs, CEOs,
CXOs)



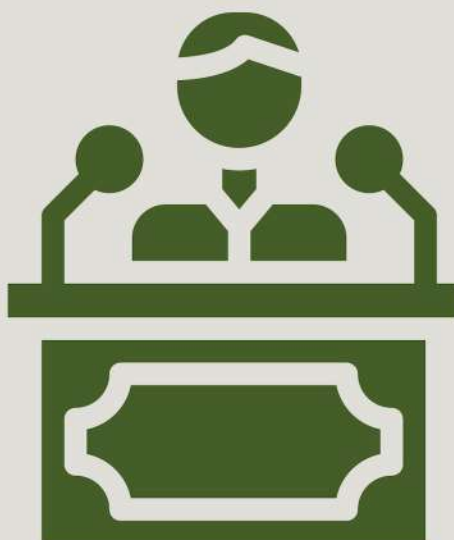
Press and Media



GUESTS TO BE INVITED

MINISTRIES/ GOVERNMENT BODIES, GOVT. OF INDIA

- Principal Scientific Adviser to the Government of India
- Ministry of Environment, Forest & Climate Change
- Ministry of New & Renewable Energy
- Ministry of Road, Transport & Highways of India
- Ministry of Chemicals & Fertilizers
- Ministry of Coal
- Ministry of Petroleum & Natural Gas
- Ministry of Earth Science
- Ministry of Science & Technology
- Niti Aayog
- Department of Science & Technology
- Council of Scientific and Industrial Research



STATE GOVERNMENTS

- Uttar Pradesh
- Maharashtra
- Punjab
- Haryana
- Madhya Pradesh
- Rajasthan
- Gujarat
- Assam
- Kerala
- Tamil Nadu
- Jammu & Kashmir



INTERNATIONAL SUPPORTING PARTNERS TO BE INVITED

- The World Bank
- Green Hydrogen Organization
- International Finance Corporation (IFC)
- Development Finance Corporation
- Asian Development Bank
- The World Economic Forum
- The World LPG Association
- United Nations Secretary General Development Organization (UNIDO) | Sustainable Energy for All
- Secretary, US DOE (Department of Energy),
- US Exim bank
- US Grains Council
- Secretary, US department of Agriculture
- USISPF
- BioFutures Platform, International Civil Aviation
- Aviation- International Energy Agency
- International Energy Forum (IEF)
- International Renewable Energy Agency (IRENA)
- The World Biogas Association
- Gates Breakthrough fund for climate
- Lanzajet, USA
- Lanzatech, USA
- Petron Scientech, USA
- Dow CHEMICALS, USA
- ADNOC UAE
- QUAZAR INVESTMENT, UAE
- BASF Germany
- INEOS, UK
- TOTAL ENERGY, FRANCE
- BP UK
- SHELL NETHERLANDS
- POET LLC USA
- MARQUIS ENERGY USA
- LOUISIS DREYFUS, FRANCE
- CARGILL USA
- MAERSK, DENMARK
- WARTISILA ENERGY- FINLAND
- ASAHI KASEI, JAPAN
- Greenstat Norway
- Gexcon Norway
- Arena H2Cluster
- Norwegian Hydrogen Forum
- The Research Council of Norway
- Yara International ASA
- Confederation of Norwegian Enterprise (NHO)
- Macquarie Group
- Tamasek, Singapore



GUESTS TO BE INVITED

INTERNATIONAL SUPPORTING PARTNERS

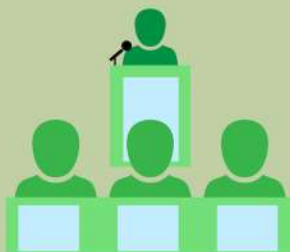
- Green Investment Group, USA
- Western Norway University of Applied Sciences
- Energy Pool Japan K. K.
- Mitsui & Co, Japan
- Nesma & Partners, Saudi Arabia
- ARAMCO, Saudi Arabia
- Kent Plc. UAE/USA
- JGC, JAPAN
- MIZUHO BANK, JAPAN
- SUMITOMO/ SMBC, JAPAN
- MARUBENI CORP, JAPAN
- BIO J-/ ENVIRONMENT ENERGY CO.- JAPAN
- IDEMITSU CORP, JAPAN
- ENERGY ESTATE, AUSTRALIA
- MITSUBISHI CORPORATION JAPAN
- BROOKFIELD RENEWABLES, CANADA.
- DELTA AIRLINES, USA
- TRAFIGURA CORP, SINGAPORE
- SAMSUNG GROUP, SOUTH KOREA
- SK HOLDING, SOUTH KOREA
- LG GROUP, SOUTH KOREA
- HANWA GROUP, SOUTH KOREA,
- LOTTE CORP, SOUTH KOREA
- FORMOSA/ NANYA GROUP, TAIWAN
- FAR EASTERN GROUP, TAIWAN/ CHINA
- SINOCHEN CHINA
- SINOPEC, CHINA



GUESTS TO BE INVITED

PUBLIC SECTOR UNDERTAKINGS

- Brahmaputra Cracker & Polymer Ltd.
- Bharat Heavy Electricals Ltd.
- Balmer Lawrie & Co. Ltd.
- Bharat Petroleum Corporation Ltd.
- Chennai Petroleum Corp. Ltd.
- Engineers India Ltd.
- GAIL India Ltd.
- Hindustan Petroleum Corporation Ltd.
- India Infrastructure Finance Company Ltd.
- Indian Oil Corporation
- Indian Renewable Energy Development Agency Ltd.
- Mangalore Refinery & Petrochemicals Ltd.
- National Thermal Power Corp. Ltd.
- Numaligarh Refinery Ltd.
- Oil India Ltd.
- Oil & Natural Gas Corporation
- Power Finance Corporation Ltd.
- GNFC, Baruch
- Power Grid Corporation of India Ltd.
- Petronet LNG Ltd
- Power Trading Corporation of India
- Rural Electrification Corporation Ltd.
- Solar Energy Corporation of India Ltd.



GUESTS TO BE INVITED

KNOWLEDGE PARTNERS

- NTPC Limited
- GRID-INDIA
- International Solar Alliance (ISA)
- Cluster Co-ordinator Energy, G12
- STEAG Energy Services (India) Pvt. Ltd., GmbH, Germany
- ACME Group
- International Solar Alliance
- The Energy and Resources Institute (TERI)
- Centre of Excellence in Process Safety & Risk Management, IIT Delhi
- Shriram Institute for Industrial Research
- Coimbatore Institute of Technology
- Greenstat Hydrogen India Ltd.
- Hydrogen Association of India
- Grant Thornton Bharat LLP
- IIT Roorkee
- Central Electricity Authority (CEA), Ministry of Power, GOI
- Larsen & Toubro
- Reliance Industries Limited
- ADANI Green
- ReNew Power
- Shroff S. R. Rotary Institute of Chemical Technology
- Suzlon Energy Limited
- Tata group of companies



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