



An Initiative By

ICCSA | TISS

**11-12 AUGUST '23**

# CLIMATE GOALS

TECHNOLOGICAL ROADMAP TO NET ZERO

Brainstorming Session on

# METHANE EMISSION FROM LANDFILL & WASTE @ Mumbai

## SPONSORSHIP OPPORTUNITIES





In Association with

Ministry of Environment, Forest and Climate Change, Government of India | GOVT OF MAHARASHTRA | CII Confederation of India Industry

## BACKGROUND

At present the Earth is more than 1.1°C warmer than the 20th century and GreenhouseGas (GHG) emissions are still rising at an unprecedented rate due to increasing anthropogenic activities. Major sources of GHG emissions are extraction and burning of fossil fuels, decaying solid waste and agriculture practices. These emissions need to be reduced by 45% by 2030 for keeping the temperatures below 1.5°C. Methane is the second most GHG gas responsible for earth's warming after Carbon Dioxide Though it has a shorter atmospheric lifetime than $CO_2$, but contributes about one-third of the current anthropogenic GHG-driven warming. Moreover, the rate rising of atmospheric methane is much higher than other GHGs making its mitigation is an imminent action in order to limit global temperature rise under Paris targets. In addition to its climate impacts, methane also affects air quality because it is an ingredient in the formation of ground level (tropospheric) ozone, a dangerous air pollutant. With action on climate change becoming increasingly time sensitive, limiting methane offers an extremely important opportunity to achieve rapid results along with other GHGs.

India stands committed to reduce emissions intensity of its GDP by 45 percent by 2030 as compared to 2005 levels, recently India has taken a strong stand to become a "Net Zero" country by 2070. With such ambitious targets, there is need to have focussed discussion on GHG emissions, sources, mitigation strategies, technological availability and deployment and so on and methane may be a good starting point along with CO2 emissions. Given the above need, ICCSA Foundation has planned a series of brainstorming sessions, across the country, focussing on five major sources of GHG emissions such as Oil and Gas, Agriculture and Livestock, Coal and Coal Bed, Transportation and Solid Waste. This series was unveiled by the hands of Hon'ble Minister of Road Transport and Highways, Shri Nitin Gadkari Ji, on 20th September 2022 in New Delhi under the banner of Climate Goals: Technological Roadmap to Net Zero. In continuation to above, the ICCSA foundation, in collaboration of Tata Institute of Social Science Mumbai, propose to have 1 day brainstorming session on management of methane emission from Landfill and Waste Sector.

Brainstorming Session on

# METHANE EMISSION FROM LANDFILL & WASTE

@ Mumbai

11-12 AUGUST '23

## Message from Summit Chair




**DR. J. S. SHARMA**

President, IAAPC, New Delhi
& Former Group General Manager,
Head Environment, ONGC


India is emerging as a Global Leader in Climate Change Initiatives. It has given commitment to achieve net-zero emissions by 2070, during the UNFCCC's 26th Conference of Parties (COP). Hence, it is important for India to continue its efforts to establish a sector-specific baselines datasets, which can help India, delineate an action plan in its focused efforts on reducing GHGs and methane, which have position India in a leadership position in upcoming COPs. With these datasets generated overtime, India will be better poised to take its initiative into a global platform through showcasing India's methane reducing technologies/processes, which have been development and are being implemented across country.

This could be possible when we put together India's technology strength combined with policy in various sectors which are workable and also frugal, leading to large scale multiplier effect. Therefore, it is timely to tackle all sources from different sector emissions arising from human activity and discuss methane emissions and reduction strategies for a positive climate change effect to bring India's ambition of being the leader.

The proposed dialogues across all stakeholders from all sectors will help develop Indian centric strategy from various sectors through cost effective voluntary efforts and deploying known processes. These efforts will assist to capture and profitably use methane emissions. Efforts are needed to compare capabilities, discuss challenges and review emerging technologies for monitoring methane and delineate an action plan for sector-specific efforts which India can implement with a specific timeline.

This series of event "Climate Goals: Technological Roadmap to Net Zero" will not only help develop targeted sector-based methane mitigation strategies but will also strengthen India's position in future climate negotiations.

In Association with

Ministry of Environment, Forest and Climate Change, Government of India

GOVT OF MAHARASHTRA

CII Confederation of India Industry

## Focus Area : Landfill & Waste

India is a leading producer of solid waste from increased urbanization and industrial activities. The rate of piling of municipal and industrial waste on landfills is expected to increase exponentially. According to the recent Mckinsey September 2021 report, solid waste account for an estimated 7-10 % of non CO2 GHG emission. Landfills and open dumps which are the site of anaerobic organic material are the major sites of non-CO2 GHG emissions. Also, as per the Global Methane Tracker, 2022 report, Methane emission from landfill is estimated to account for 3–19% of the anthropogenic sources in the world. In India, most of the solid wastes are disposed of by landfilling in low-lying areas located in and around the urban centres resulting in generation of large quantities of biogas containing a sizeable proportion of methane (Kumar et al., 2004).

Given the above emission profile of the Landfill and waste sector and the ambitious target of Net-Zero, it is important that comprehensive and detailed discussion is done targeting reducing these emissions from this sector while focussing on various aspects such as technology, policy, finance etc which are required for the Waste sector. This is important as the current knowledge of methane management from the waste sector is limited. Most landfills in India are not designed in a scientific manner to arrest the possibility of methane. Further, there are scientific gaps in estimation, monitoring, and technological advances on the issue of methane management from landfills. This forms the core of the proposed brainstorming session.





Brainstorming Session on

# METHANE EMISSION FROM LANDFILL & WASTE

@ Mumbai

**11-12 AUGUST '23**

## Brainstorming session on

# METHANE EMISSIONS FROM LANDFILL & WASTE SECTOR

Mumbai (also known as Bombay, the official name until 1995), the capital of state Maharashtra, lies on the Konkan coast on the west coast of India and has a deep natural harbour. Mumbai that is situated along the beautiful pacific ocean and diversified mangroves along with stakeholders and partners like Indian Institute of Technology (IIT Bombay), University of Mumbai, Government of Maharashtra, local bodies and other institutes. Tata Institute of Social Studies (TISS) is an institute of excellence in higher education and continually responds to changing social realities through the development and application of knowledge, towards creating a people-centred, ecologically sustainable and just society. TISS is an appropriate location for discussion on Climate Goal related to this field with stakeholders, researchers, governing bodies, policy makers and industries for sharing their views and knowledge in this field.

ICCSA Foundation in continuation of series of events is organising brainstorming session on GHGs including methane emission from Landfill and Waste sector on 11th & 12th August 2023 at Tata Institute of Social Sciences, Mumbai from 0930 to 1815 Hrs (IST). This brainstorming session is organised with stakeholders and partners, MoEF, CSIR, MPCB, Govt of Maharashtra, IIT Guwahati, PDEU, IIT Bombay,Socleen, and other governmental and non-governmental organization working in the related themes.

The outcome of this session will help the organizers to develop roadmap on key strategies and action plan to Mitigate GHGs Emission and develop technologies for its energy transition and preventing climate change. The roadmap will cover aspects such as (i) need for management and technological advances with respect to methane emission and landfill management, (ii) an informed discussion related to existing policies and policy gaps, (iii) discussion in identification of opportunities and challenges of financing landfill management in India, (iv) capacity building.

In Association with

Ministry of Environment, Forest and Climate Change, Government of India

GOVT OF MAHARASHTRA

CII Confederation of India Industry

An Initiative By

ICCSA | TISS

# CLIMATE GOALS

TECHNOLOGICAL ROADMAP TO NET ZERO

## DISCUSSION POINTS

CLIMATE GOALS : Technological Roadmap to Net Zero

- Indian centric strategy for reducing methane emissions from Landfill and Waste sector through cost effective efforts and deploying known processes.
- Targeted methane reductions that can help to achieve India's climate change goals, as well as efforts to capture and profitably use methane emissions.
- To compare capabilities, discuss challenges and review emerging technologies for monitoring methane.
- Sector-specific efforts which India can implement with a specific timeline.

## EXPECTED TAKEAWAYS

- Awareness on methane emission from Landfill and Waste, by highlighting short term and long-term impacts to policymakers
- Landfill and Waste sector-specific directions for India on methane emissions with an action plan.
- The importance of emission detection and measurement in Landfill and Waste sectors, as well as developing long-term strategies that shall focus on de-carbonization
- Challenges and opportunities in research and development, demonstration, and deployment of technologies in methane detection and mitigations in this sector.
- The findings that will describe the overall strategy for reducing non-CO2 GHG emission across the sector.
- Access to Nobel Laureates, Ministry personnel, Industry leaders of Landfill and Waste sector from across the India
- Opportunities for joint ventures, technology development and funding for methane mitigation strategies.

To achieve these objectives it is aimed to work with people from varied domains to tackle challenges from many perspectives, not just the environmental one. This will provide far-sighted solutions to the problems and insight to take proper action to solve them.

In Association with

Ministry of Environment, Forest and Climate Change, Government of India | GOVT OF MAHARASHTRA | CII Confederation of India Industry

Brainstorming Session on

# METHANE EMISSION FROM LANDFILL & WASTE

@ Mumbai

**11-12 AUGUST '23**

ICCSA

## INTERNATIONAL CENTER FOR CLIMATE AND SUSTAINABILITY ACTION FOUNDATION

ICCSA is a not for profit organization incorporated in 2021, under the companies act 2013. It is committed to provide a better world for the people and the planet. This organization is established with a focus to plug the gaps in environmental management to provide an institutional platform for coordination, facilitation, advocacy, and regional and international collaboration; with an aim of development of targeted solutions. Its focus is to restore ecosystem health, regenerate nature on Earth to drive sustainable development for a future which is bright, positive and resilient.

ICCSA key priorities are to promote local, regional and global partnerships to take effective action for climate and sustainability and to assess impacts of environmental and climatic variability on livelihoods, well-being and economic development.

ICCSA provides strengthening knowledgebase on environment matters for effective responses by delivering basic science and technology solutions at grass root for inclusive development of the communities. Provide design, research and evidence based support to government and industries on policy formulation. This also facilitates new coalition and partnership to accelerate climate action and transform our societies towards a sustainable future without sacrificing human development goals.

ICCSA works in an integrated and coherent way to achieve objectives of our national missions/flagship programs while pursuing climate action and sustainable development. This organization understands the world's pressing problems and develops effective solutions to them through focus on the nexus between climate change and sustainable development in developing-country settings. It develops innovative solutions and research best practices for climate change adaptation and mitigation efforts by involving businesses and governments to help them transform commitments into action.

In Association with

Ministry of Environment, Forest and Climate Change, Government of India

GOVT OF MAHARASHTRA

CII Confederation of India Industry

# THE TATA INSTITUTE OF SOCIAL SCIENCES

The Tata Institute of Social Sciences (TISS) was established in 1936 as the Sir Dorabji Tata Graduate School of Social Work in Mumbai to create human service professionals to address the issues of unemployment and poverty in the context of the Great Depression of the 1930s. In 1944, it was renamed as the Tata Institute of Social Sciences, and in 1964 the Government of India (GoI) declared TISS as Deemed to be a University under Section 3 of the University Grants Commission (UGC) Act, 1956.

The vision of Tata Institute of Social Sciences has been to be an institution of excellence in higher education that continually responds to changing social realities through the development and application of knowledge, towards creating a people- centred, ecologically sustainable and just society that promotes and protects dignity, equality, social justice and human rights for all. Over the years, TISS has made consistent contributions to civil society and the development sector through its education, research, field action and extension. The Institute has imparted education and trained generations of social work, management and development professionals. Today, TISS has earned recognition as an institution of repute from different Ministries of GoI; various State Governments; international agencies such as the United Nations; and the non-government sector, both national and international. A high degree of freedom and autonomy shape the positive work ethos and creativity in the Institute facilitating strong linkages between education, research, field action and dissemination.

In the 3rd cycle of assessment held in February 2016, the National Assessment and Accreditation Council (NAAC) rated TISS with a score of 3.89 out of 4.00, the second highest score among universities accredited thus far. In earlier rounds, NAAC had awarded a 5-Star rating to the Institute in 2002, and reaccredited the Institute with an 'A' Grade in 2010. In April 2018, the UGC awarded TISS with a 'Category 1' Deemed to be University Status. Currently NIRF ranked TISS at 34th among all universities and 57th among all Institutions of higher education. Globally QS I-Gauge has rated TISS with Diamond rating and the World University Rankings has ranked TISS among top 200 universities for SDG 1, 5, 10 and top 300 for SDGs 7, 9, 12, 16 and 17.

Brainstorming Session on

# METHANE EMISSION FROM LANDFILL & WASTE

@ Mumbai

**11-12 AUGUST '23**

## SPONSORSHIP OPPORTUNITIES...

As the need to address climate change issues are become more urgent and pressing than ever and India's action in curbing climate pollutants has witnessed many specific leadership programs but less efforts have been made to target non-CO2 GHG emissions like methane. Hence it becomes important to make face-to-face connections with policy makers, regulators, energy leaders, key influencers, new market entrants and the global industry to understand the following on methane:

- **Status and S&T Inventions / Implications**
  Capture and profitable use methane emissions, Deploying Known Processes for Control and R&D Needs.
- **Community Implication**
  Behavioural aspect, adoptions and associated challenges
- **Financial Implications**
  Supports available nationally or internationally

The session during the summit and symposium shall not only help your organisation understand the technological R&D and business opportunities for the stakeholders in the sector but will also provide a host of sponsorship, branding & advertising opportunities suited to meet your organisation objectives. From thought leadership positioning, networking opportunities to high visibility branding and advertising campaigns, our packages are designed to maximize benefits and ensure high returns on your investments. The summit would provide networking & collaboration opportunities for:

- **Bilateral Trade**
- **Technology Transfer & Research Collaboration and Centre of Excellence in National Methane Initiate**
- **National / International Joint Ventures**
- **National / International Funding**

## WHY SPONSOR

Engage and connect with stakeholders & partners, policy makers, academicians, researchers in different sectors for methane mitigation.

Collaboration in CoE on National Methane Initiative.

Build long term relationship with potential and existing customers.

The conference / Event will be attended by

**150-200** Audience

In Association with

Ministry of Environment, Forest and Climate Change, Government of India

GOVT OF MAHARASHTRA

CII Confederation of India Industry

An Initiative By

ICCSA | TISS

# CLIMATE GOALS

TECHNOLOGICAL ROADMAP TO NET ZERO

## SPONSORSHIP PACKAGES...

### GOLD PACKAGE : 10 LAKHS

- Up to 10 free event registration with kits
- Solo presentation in front of expert audience
- Logo on conference banner and website as Title Sponsor
- Opportunity to display their organisation details/products
- Name on Inaugural session stage and invitation
- Full page advertisement on registration kits, website/ social media handles
- Lunch with high quality leaders

### SILVER PACKAGE : 5 LAKHS

- Up to 5 free event registration with kits
- Expert member in event panel discussions with other experts
- Logo on conference banner and website as Lead Sponsor
- Name on Inaugural session stage and invitation
- Half page advertisement on registration kits, website/ social media handles
- Lunch with high quality leaders

### BRONZE PACKAGE : 2.5 LAKHS

- Up to 3 free event registration with kits
- Logo on conference banner and website as Associate Sponsor
- Half page advertisement on registration kits, website/ social media handles
- Lunch with high quality leaders

## SPEAKING, AND PARTNERSHIP ENQUIRIES


**Dr J S Sharma**
Director
ICCSA Foundation
jssharma@iccsaf.com

**Dr Deepika Soni**
Head (Projects)
ICCSA Foundation
deepika@iccsaf.com/ project@iccsaf.com


In Association with

Ministry of Environment, Forest and Climate Change, Government of India | GOVT OF MAHARASHTRA | CII Confederation of India Industry








# CURTAIN RAISER

HOTEL LE MERIDIAN
New Delhi
























Brainstroming Session on

# OIL & NATURAL GAS

**4 NOVEMBER 2022**

at Pandit Dindayal Energy University
Gandhinagar
















Brainstroming Session on

# AGRICULTURE & LIVESTOCK

**1 FEBRUARY 2023**

IIT GUWAHATI





















# COAL MINING SECTOR

**CBM & CMM**

**19 MAY 2023**
**MUMBAI**






















# COAL MINING SECTOR

**CBM & CMM**

**25 May 2023**

**MUMBAI**















# CLIMATE GOALS

TECHNOLOGICAL ROADMAP TO NET ZERO

ICCSA

International Center for
Climate and Sustainability
Action Foundation

C-83, Gamma-1, Gautam Buddha Nagar,
Greater Noida, Uttar Pradesh - 201 307, INDIA
E-mail : connect@iccsaf.com | www.iccsaf.com