



Title: *Understanding Sustainability Dimensions of Bio CNG in India*

Date: 8th February 2024

Time: 11.30 am -1.00 pm

Venue: *Jacaranda 1, India Habitat Centre, Lodhi Road, New Delhi - 110003*

Mode: *In-person*

Background Note

The Energy and Resources Institute (TERI) is delighted to announce a thematic track during the forthcoming World Sustainable Development Summit, which is scheduled on **February 8, 2024**. This dedicated forum will mark the launch of the report titled "*Comprehensive Environmental and Social Sustainability Assessment of Bio-CNG as a Vehicular Fuel in India.*" The release of this report signifies the culmination of TERI's exercise aimed at assessing the potential of Bio-CNG as a green energy not only in mobility but also producing sustainable by-products that has the ability to replace fossil based fertilizers used in agriculture among others.

TERI has undertaken a comprehensive assessment of environmental sustainability as well as the socio-economic benefit associated with the adoption of Bio-CNG for mobility and beyond in India. The social perceptual analysis carried out under the socio-economic benefit assessment measures the readiness of the rural population to adopt Bio-CNG as a vehicular fuel when made available. The comparative well-to-wheel lifecycle analysis of various fuel and powertrain components of EVs and ICEVs (Petrol, diesel, CNG, and Bio CNG) carried out in this report presents Bio-CNG as a potential multi-purpose game-changer capable of aiding India in greenhouse gas mitigation, waste management, de-carbonization of the transport sector, as well as in providing accessible mobility solutions to the citizens. Bio-CNG can become the anchor of India's efforts to decouple its growing transportation demand from the associated greenhouse gas emissions. Additionally, Bio CNG can be seamlessly integrated into the current gas infrastructure, thus broadening the path to 'green diversification' of India's energy sector while producing sustainable by-products that has the ability to replace fossil based fertilizers used in agriculture among others.

The thematic track is structured to cater to all relevant stakeholders, highlighting the broader implications that the utilization of Bio-CNG has in facilitating circularity for the automotive sector and beyond in India, promoting a sustainable and environmentally conscious approach. The objective of the thematic track is to bring together stakeholders from across various sectors, such as government representatives, industrial leaders, environmental advocates, and policymakers. The event will present a thorough overview of the study and illustrate the research outcomes across the broad study heads undertaken in the report, highlighting Bio-CNG's potential to play a significant role in India's transition towards more sustainable and environment-friendly mobility and a sustainable agrarian economy.

The report's findings will be strategically emphasized to advocate for Bio-CNG through favourable policies formulation and fiscal aid. The thematic track, by assembling key stakeholders, aims to align the individual efforts and cultivate a cooperative strategy that promotes the widespread adoption of Bio-CNG as a preferred vehicular fuel, for both, the consumers as well as the suppliers while creating sustainable farming opportunities to rural communities. It aims to understanding perspectives on accelerating bio-based fertilizers, generated as a byproduct during bio gas conversion process, and its application in India's vast agrarian space as an alternate to fossil based fertilizers.

TERI extends an invitation to all the stakeholders to actively participate in discussions, exchange perspectives, and collaboratively explore opportunities to advance the use of environmentally friendly vehicular fuels.

About the World Sustainable Development Summit (WSDS)

The World Sustainable Development Summit (WSDS) is the annual flagship Track II initiative organized by The Energy and Resources Institute (TERI). Instituted in 2001, the Summit series has a legacy of over two decades for making 'sustainable development' a globally shared goal. The only independently convened international Summit on sustainable development and environment, based in the Global South, WSDS strives to provide long-term solutions for the benefit of global communities by assembling the world's most enlightened leaders and thinkers on a single platform. The 23rd edition of the annual flagship event of The Energy and Resources Institute (TERI)—the World Sustainable Development Summit (WSDS)—will be held from 7-9 February 2024 in New Delhi. The Summit deliberations will focus on the umbrella theme: Leadership for Sustainable Development and Climate Justice.