NTPC Limited
(A Government of India Enterprise)
CORPORATE CENTRE

Ref. No.:01/ FA/ISD/Compliance/2022-23 Dated: 23.12.2022

Listing Department National Stock Exchange of India Limited 'Exchange Plaza', C-1, Block G, Bandra Kurla Complex, Bandra (E), Mumbai - 400 051. **Scrip Code - NTPC**	Corporate Relationship Department, BSE Limited, Rotunda Building, P J Towers, Dalal Street, Fort, Mumbai - 400 001. **Scrip Code - 532555**

Sub: Press Release titled "NTPC Limited and GE Power India Limited sign MoU to reduce carbon intensity from NTPC's coal fired units"

Please find attached NTPC's press release titled "NTPC Limited and GE Power India Limited sign MoU to reduce carbon intensity from NTPC's coal fired units" dated 22.12.2022.

Yours faithfully,

ADITYA DAR
Digitally signed by ADITYA DAR
Date: 2022.12.23 11:02:14 +05'30'

(Aditya Dar)
Executive Director (Finance)

NTPC Limited
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Press Release **Dated: 22.12.2022**

NTPC Limited and GE Power India Limited sign MoU to reduce carbon intensity from NTPC's coal fired units

- NTPC and GE Power India Limited will partner to reduce carbon intensity at NTPC's coal fired units.
- This is a first of a kind step for coal fleet decarbonization in the country.
- This partnership aims to demonstrate technologies for firing higher percentage of Torrefied Biomass in NTPC's coal fired units, Methanol Firing & Ammonia Firing.

Carbon reduction from coal power plants is a key challenge and Co-firing of low carbon fuel will facilitate the transition towards a low carbon energy economy and subsequently to "Net Zero" emission. In its efforts to adopt advanced powering technology to decarbonize power generation in India, NTPC Ltd., the country's largest power generating utility, and GE Power India Limited, a listed company of GE Steam Power in India signed a Memorandum of Understanding (MoU) for feasibility to demonstrate technologies to reduce the carbon footprint of NTPC's existing coal fired power plants.

This first of a kind MOU aims at partnering on research, development and engineering of technologies that will enable NTPC to reduce the amount of coal fired in their units and gradually replace it by co-firing of 'alternate fuel' in boiler - both (i) carboneous (methanol, Carbon neutral fuel- agri-waste, biomass, etc.) and (ii) non-carboneous (such as ammonia). This will make use of huge existing infrastructure and lesser new investment will be required as compared to other decarbonisation options. Further, as in India coal is the only option for base load so it will help to reduce carbon footprint from source of reliable power, for decades in future.

As a primary goal, the collaboration is to support NTPC in co-firing of biomass pellets beyond 20% and up to 100%, as well as enabling the co-firing of methanol. It will also explore the possibility of introducing ammonia as a co-firing fuel, and also develop, test and demonstrate technologies that allow a total co-firing with lower carbon fuels in coal fired power plants.

Shri Ujjwal Kanti Bhattacharya, Director Projects, NTPC Limited said, "We are looking forward to working with GE Power India Limited as NTPC intends to minimize the carbon footprint of our 57+ GW coal-based units. We aim to decrease carbon footprint from our coal fired power plants by co-firing of alternative fuel such as carbon neutral fuel, Green Methanol and Green Ammonia. It will support our goal of reducing carbon emissions from our coal-based power generation, as part of NTPC's "The Brighter Plan 2032" that aims at setting new benchmarks in sustainability along the entire energy value chain in India."

Shri Prashant Jain, MD GE Power India Limited and RGM GE Steam Power said, "This MOU is in line with our country's efforts to adopt advanced powering technology to decarbonize power generation. We are excited to partner with NTPC Limited on finding solutions to address carbon emissions, while ensuring efficient, reliable and affordable power generation. This is a huge stride in India's energy transition journey as the country looks ahead to achieve its net-zero targets."

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