

GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
RAJYA SABHA
UNSTARRED QUESTION NO. 82
ANSWERED ON 22/07/2024

GREENHOUSE GAS EMISSIONS

82. SHRI K. R. SURESH REDDY

Will the Minister of HOUSING AND URBAN AFFAIRS be pleased to state:

- a) whether Government has taken cognizance of the World Bank's report titled "Thriving: Making Cities Green, Resilient, and Inclusive in a Changing Climate", which warned that cities account for about 70 per cent of global greenhouse gas emissions; and
- b) if so, the details of the steps that are proposed to be taken by Government to make cities greener, inclusive and more resilient?

ANSWER

THE MINISTER OF STATE IN THE MINISTRY OF HOUSING AND URBAN AFFAIRS
(SHRI TOKHAN SAHU)

- a) Yes. As per a World Bank report (2023) titled "Thriving: Making Cities green, Resilient and Inclusive in a Changing Climate", globally, about 70 percent of anthropogenic greenhouse gas emissions, the bulk of which are fossil carbon dioxide (CO₂) emissions, emanate from cities.
- b) Government of India stands committed to combating climate change through its various programmes and schemes, and is also implementing the National Action Plan on Climate Change (NAPCC) which comprises missions in specific areas of solar energy, energy efficiency, water, sustainable agriculture, Himalayan ecosystem, sustainable habitat, health, green India, and strategic knowledge for climate change. The NAPCC provides an overarching framework for all climate actions. The National Mission on Sustainable Habitat (NMSH) launched by Ministry of Housing & Urban Affairs (MoHUA) under NAPCC provides a framework for sustainable urbanization for the period 2021-2030. It aims to meet the challenges of climate change and make cities green, resilient and inclusive through the Missions and programmes of MoHUA viz. Swachh Bharat Mission – Urban (SBM-U), Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Smart Cities Mission (SCM), Pradhan Mantri Awas Yojana – Urban (PMAY-U) and Urban Transport. Some of the initiatives under these Missions are listed at Annexure.

INITIATIVES TAKEN BY MOHUA TO MAKE CITIES GREEN, RESILIENT AND INCLUSIVE UNDER CLIMATE CHANGE:

- I. Smart Cities Mission (SCM): Climate Smart Cities Assessment Framework (CSCAF) covers 28 climate-relevant parameters (eg. *Green Buildings, Flood Risk Management, Clean Technologies, energy efficient waste & water management systems etc*) that serve as the tool for cities to assess their present situation vis-à-vis objectives and targets of NMSH 2.0. Three surveys have been conducted across cities under this Framework to capture data on the 28 parameters identified under CSCAF.
- II. City Investments to Innovate, Integrate and Sustain 2.0 (CITIIS 2.0) program: Government has approved the City Investments to Innovate, Integrate and Sustain 2.0 (CITIIS 2.0) program that envisages to support competitively selected projects promoting circular economy with focus on integrated waste management at the city level, climate-oriented reform actions at the State level, and institutional strengthening and knowledge dissemination at the National level.
- III. Atal Mission for Rejuvenation and Urban Transformation (AMRUT):

AMRUT covers the following initiatives:

- Water Management: 500 AMRUT cities are benefitting through augmentation of localized water resources through water bodies rejuvenation, rainwater harvesting (RWH), increase in permeable green spaces and recycle/reuse of wastewater from newly developed Sewerage Treatment Plants.
- Energy efficiency reforms: Replacement of streetlights with energy efficient lights and energy efficient pumps. This has resulted in reducing carbon emissions.
- Mitigating Heat Island Effect: 2414 parks have been developed and over 5,010 acre green space area has been added under AMRUT Mission, which will help in mitigating the heat island effect in urban areas.
- Mitigating Impact of Urban Flooding: In order to reduce the adverse impact of Urban Flooding, 772 projects have been completed, 1,343 km drains have been constructed and 3,556 water logging points have been eliminated. Coastal Zone Regulations for flood risk mitigation in Coastal cities Master Plan have been made and 71 storm water projects have been completed in coastal cities.
- Green Mobility: To encourage Green Mobility, 320 projects have been completed. In addition, 430 km of pedestrian walkways and 43 km of cycle tracks have also been created.

- IV. Swachh Bharat Mission – Urban (SBM-U): The SBM-U Mission was launched with the objective of making all statutory towns Open Defecation Free (ODF) and achieving 100% scientific management of Municipal Solid Waste. 92,707 wards, representing 97% of the total wards, have achieved 100% Door-to-Door collection, and 86,405 wards (comprising 90%) have achieved 100% source segregation. To process the waste generated, the country has 128 Bio-methanation plants, 2,445 Waste-to-Compost Plants, 50 Waste-to-Energy Plants, 2,462 Material Recovery Facilities (MRFs), 1,062 Construction and Demolition (C&D) plants and 339 Solid Liquid Resource Management (SLRM) plants. Additionally, there are 3,075 Sewage Treatment plants with a design capacity of 118,296 Million Litres Per Day (MLD) and 1,369 Faecal Sludge Treatment Plants with a design capacity of 133,113 Kilo Litres per Day (KLD). Furthermore, 77,009 community and public toilets and urinals have been constructed, comprising 44,636 public toilets, 27,015 community toilets, and 5,358 urinals.
- V. Urban Transport: Metro Rail System is the most energy efficient Mass Rapid Transit System having low carbon footprint owing to employment of energy efficient traction system. At present, about 945 kms of metro rail lines (including RRTS) are operational in 21 different cities across the country and about 939 Kms of Metro Rail/RRTS lines are under construction across various cities. Further, PM-eBus Sewa has been launched in August 2023 with an objective to increase modal share of public transport and reducing Green House Gas emission by promoting electric buses for city bus operation. This scheme aims to provide 10,000 e-Buses for city bus operation on Public Private Partnership (PPP) model including support for development of e-bus ecosystem and Green Urban Mobility Initiatives (GUMI).
- VI. Pradhan Mantri Awas Yojana - Urban (PMAY-U) Mission: PMAY-U Mission envisages to provide pucca house with basic amenities to each household living in urban area. Under Global Housing Technology Challenge - India (GHTC-India), 54 alternate/ innovative technologies, which are green and disaster-resilient have been identified under PMAY-U Mission for construction of mass housing. Six Light House Projects (LHPs) of more than 1,000 houses each with allied infrastructure facilities have used six distinct technologies in construction.
