

**GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
LOK SABHA
UNSTARRED QUESTION NO. 2326
TO BE ANSWERED ON MARCH 13, 2025
GREEN METRO SYSTEM**

NO. 2326. SHRI DULU MAHATO:

SHRI PRADEEP KUMAR SINGH:

SHRI YOGENDER CHANDOLIA:

SHRI LUMBA RAM CHAUDHARY:

SHRI JASWANTSINH SUMANBHAI BHABHOR:

SHRI BASAVARAJ BOMMAI:

SHRI DILIP SAIKIA:

SHRI TRIVENDRA SINGH RAWAT:

SHRI KHAGEN MURMU:

SHRI BALABHADRA MAJHI:

DR. HEMANT VISHNU SAVARA:

SMT. APARAJITA SARANGI:

SMT. SHOBHANABEN MAHENDRASINH BARAIYA:

SHRI RAVINDRA SHUKLA ALIAS RAVI KISHAN:

SHRI BIPLAB KUMAR DEB:

SHRI MANOJ TIWARI:

SHRI ANIL FIROJIYA:

Will the Minister of Housing and Urban Affairs be pleased to state:

- (a) whether the Government proposes to expand the installation of vertical bifacial solar plants and rooftop solar power systems in metro networks across the country other than Delhi to promote renewable energy and if so, the details thereof;**
- (b) the manner in which the Government is planning to integrate the Green Metro System into India's broader net-zero emission target by 2070;**
- (c) the details of specific policies and incentive schemes being introduced to encourage metro corporations to adopt energy-efficient technologies and achieve green building certification across the country;**
- (d) the role of the private sector in financing and implementing Green Metro System initiatives; and**
- (e) whether any public-private partnership models are being explored/considered and if so, the details thereof?**

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

- (a) More than 88 MWp capacity rooftop solar plant has been installed in various metro networks across the Country. Further, Delhi Metro Rail Corporation (DMRC) has installed 50 KW vertical bifacial solar panels on its viaducts.
- (b) & (c) Government of India has issued National Urban Transport Policy, 2006 and Metro Rail Policy, 2017 for systematic planning of public transport projects including Metro Rails in order to achieve sustainable mobility. Metro Rail Systems are implemented with State of the art energy efficient technology including deployment of rolling stock with regenerative braking system. Such energy efficient systems along with solar roof top system will reduce energy consumption besides harnessing green energy. These steps contribute significantly in making metro projects efficient, sustainable and environment friendly.
- (d) & (e) In metro rail system, the installation of rooftop and ground mounted solar panels is generally done through private participation under Renewable Energy Service Company (RESCO) model wherein Solar Power Developer is paid for energy generated from this plant.
