1.2. Other ambitions

Description of action (1.2: Achieve net zero carbon emissions)

Procure diverse RE mix for its traction and non-traction network

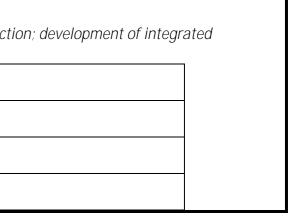
Undertake initiatives in the area of energy efficiency for optimising energy demand.

100 % Railway electrification by replacing diesel with electricity.

Use of 5% blending of bio-fuels in traction diesel fuel to reduce emissions due to diesel.

Higher tree plantation to increase carbon sink.

4.2. [For countries only] In case support is required for the actions in section 2, please select from below and describe the required support and specify for which action-[Examples of support for Member States could include: Access to low-cost affordable debt through strategic de-risking instruments, capacity building in data collection; development of integrated energy plans and energy transition pathways; technical assistance, etc.]- Not applicable for Indian Railways Financing Description In-Kind contribution Description Technical Support Description Other/Please specify Description



India has a population of over 1.3 billion people spread over a vast geography. The transport sector is and will continue to remain a critical enabler of development and would also have to grow in a sustained manner for the country to meet its developmental objectives. Indian Railways plays a key role in the economic and social development of the country by providing safe, @ k tiatives are aligned with both:	
1. Paris Agreement: Limit global warming to well below 2, preferably to 1.5 degrees Celsius Achieve 33-35% reduction in emissions intensity of its GDP from 2005 level Achieve 40% cumulative installed capacity from non-fossil fuel-based energy resource	
@ $k - @) # @ kcountry, has decided to achieve Net Zero carbon emissions by 2030 through continuous efformed and the second s$	network and one of the largest electricity consumers in the orts. This objective will be fulfilled by focusing on energy security, enabling consumption efficiency o dedicated freight corridors, and modernise its stations which will increase power demand and
plants and 6.7 MW of ground-mounted solar PV plants. To utilise the available rooftop sp	ing up ~20 GW of renewable energy. Indian Railways has installed 103.4 MW wind-based power bace on different stations and service buildings, IR has installed 117.53 MW solar capacity till July of diversify its energy portfolio. Additionally, IR will procure Renewable energy through open access
$_{\odot}$ -35% by 2030, In The speed of electrification has vastly been scaled up over the last 5 years to achieve this t_{\odot}	ndian Railways has decided to target 100% electrification of broad-gauge railway network by FY24. arget.
energy efficient rakes, capacitor banks, creation of smart rail energy grids, replacement o on-Generation. Head-on-generation (HOG) allows electrical power for catering hotel load (ves across its traction and non-traction network. Along traction network, Indian Railways will adopt f short duration train with EMU/MEMU/ DEMU, track electrification, End-on-Generation to Head- of train to be met directly from locomotive power, and has already led to projected savings of more ce all lights with LED lights and higher star rated appliances, deploy occupancy sensors, building m, and use variable-voltage/ variable-frequency for Lifts/Elevators.
Enhance the share of the Railways in the overall land-based freight transport from the diesel fuel.	e present 36% to 45% by the year 2030 Use of 5% blending of bio-fuels in traction
Improve water use efficiency by 20% up to 2030 Tree Plantation to increase Carbon Sink.	

SECTION 6:

SECTION 7: GUIDING PRINCIPLES CHECKLIST

Please use the checklist below to validate that the proposed Energy Compact is aligned with the guiding principles.

I.Stepping up ambition and accelerating action - Increase contribution of and accelerate the implementation of the SDG7 targets in support of the 2030 Agenda for Sustainable Development for Paris Agreement

I. 1. Does the Energy Compact strengthen and/or add a target, commitment, policy, action related to SDG7 and its linkages to the other SDGs that results in a higher cumulative impact compared to existing frameworks?

⊠Yes No

I.2. Does the Energy Compact increase the geographical and/or sectoral coverage of SDG7 related efforts? **Z** Yes **No**

Non-Governmental Organization (NGO)

Civil Society organization/Youth

Academic Institution / Scientific Community

Private Sector

Philanthropic Organization

Other relevant actor

8.4. Contact Information

Sh. Manish Gupta, Executive Director/Ministry of Railways, Email-manish.gupta70@nic.in, Ph-011-478-4515 Sh. Sumit Garg, Director, Ministry of Railways, Email-deeps@rb.railnet.gov.in. Sh. Shray Saxena, SSE/ Electrical, Ministry of Railways, Email-shray.5757@gov.in

8.5. Please select the geographical coverage of the Energy Compact

Africa I Asia and Pacific Europe Latin America and Caribbean North America West Asia Global

8.6. Please select the Energy Compact thematic focus area(s)

Energy Access 🗹 Energy Transition 🗹 Enabling SDGs through inclusive just Energy Transitions 🗹 Innovation, Technology and Data 🛛 Finance and Investment.

SECTION 9: ADDITIONAL INFORMATION (IF REQUIRED)

Please provide additional website link(s) on your Energy Compact, which may contain relevant key documents, photos, short video dips etc.