International Transport Forum

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IKI INTERNATIONAL CLIMATE INITIATIVE

on the basis of a decision by the German Bundestag

Decarbonising Transport Initiative

ITF Work in Decarbonising Transport

Highlights from

- NDC Transport Initiative for Asia (NDC-TIA) - India
- Decarbonising Transport in Emerging Economies (DTEE) - India

Dr Guineng CHEN

Team Lead, ITF/OECD

15th Regional EST Forum in Asia

25 October 2023, Kuala Lumpur, Malaysia

OECD Wuppertal Institut NDC TRANSPORT INITIATIVE FOR ASIA giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH WORLD RESOURCES INSTITUTE icct THE INTERNATIONAL COUNCIL ON CLEAN TRANSPORTATION Agora Verkehrswende SLOCAT Partnership on Sustainable, Low Carbon Transport REN21

International Transport Forum

Decarbonising Transport initiative

Intergovernmental Organisation

linked to OECD
66 member countries

Think Tank

Policy analysis and research
Modelling, data and statistics

Annual Summit

Forum for Ministers,
industry, research

The DT initiative provides decision-makers with tools to identify CO_2 mitigation measures that deliver on their climate commitment.

- ✓ **Launched in 2016** after the Paris agreement
- ✓ **Provides targeted analytical assistance** for countries and partners
- ✓ **Gathers and shares evidence** for best practices
- ✓ **Shapes the climate change debate** by building a global policy dialogue

See: https://www.itf-oecd.org/decarbonising-transport
Or scan the QR code to access the page

Pathway Development (past and present)

- ✓ Decarbonising Transport in **Europe** (funded by EC)
- ✓ Decarbonising Transport in **Latin American Cities** (funded by IDB)
- ✓ Decarbonising Transport in **Emerging Economies** (Azerbaijan, Argentina, India, Morocco) (funded by IKI)
- ✓ NDC – **Transport Initiative for Asia** (China, Vietnam, **India**) (funded by IKI)
- ✓ Decarbonising Pathways for Urban Mobility in **Mongolia** (funded by IKI)
- ✓ Decarbonising Pathways for Urban Mobility in **Uzbekistan** (funded by IKI)
- ✓ Decarbonising Pathways for Freight Transport in the **Philippines** (funded by IKI)

Highlights of Selected ITF Decarbonising Transport Studies: DTEE + NDC-TIA in India

DTEE

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DTEE + NDC-TIA: Synergised Objectives

Support for Stakeholder Platform

- Multi-stakeholder dialogue
- Modeling capacity advancement
- Technical support, reports, outreach

Quantitative Assessment Framework

- Strategic CO2 modeling tool
- Base year emissions assessment
- Policy scenario impacts (2050)
- User-friendly, tailored visuals

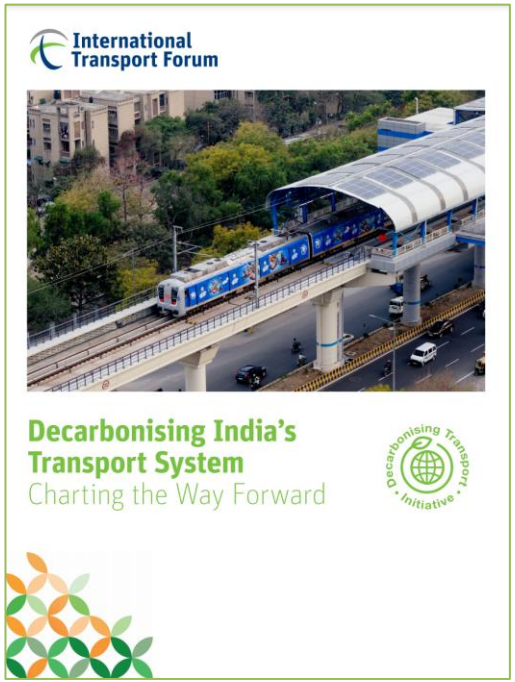
Capacity Enhancement

- CO2 reduction pathways
- Mitigation policy measures
- Activities: Workshops, training, manuals

Policy Dialogue

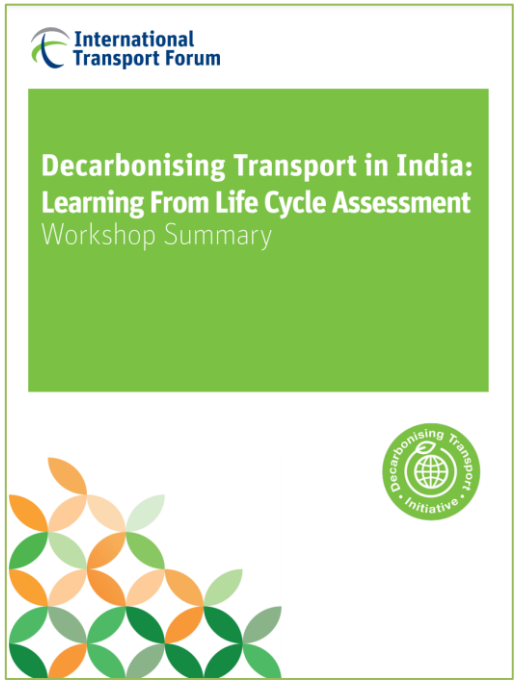
- Regional findings dissemination
- Activities: Policy events, website, reports

Reviewing existing transport policy and modelling in India



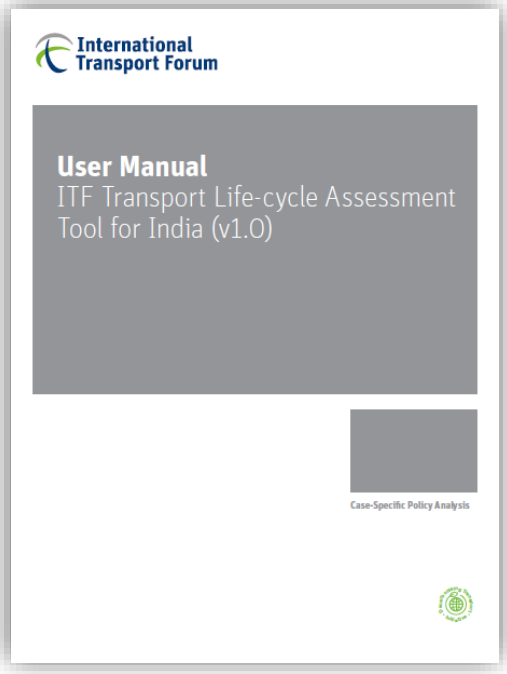
See: https://www.itf-oecd.org/decarbonising-india-transport-system

Life cycle analysis for decarbonising transport in India

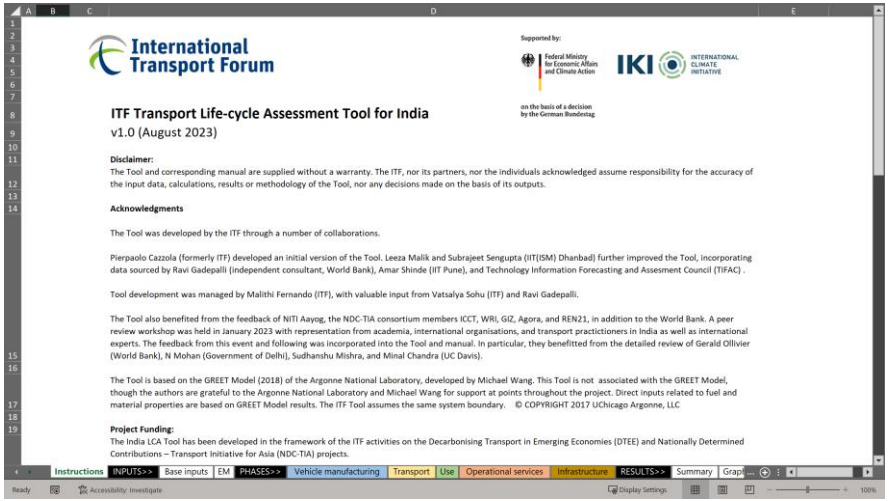


See: https://www.itf-oecd.org/decarbonising-transport-india-learning-life-cycle-assessment

ITF Transport Life-cycle Assessment Tool for India

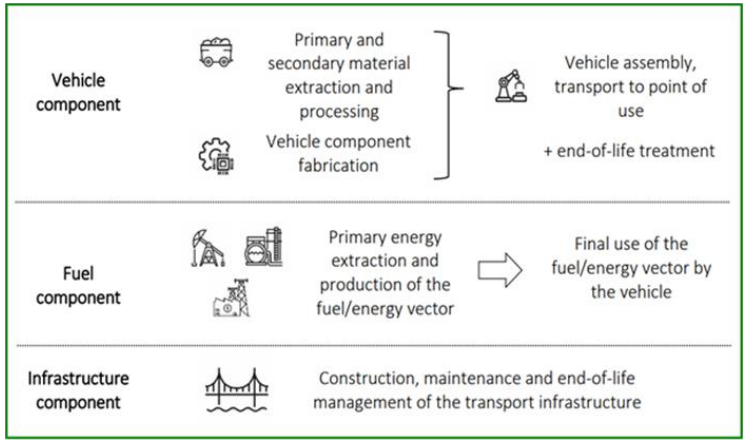


Download the tool



The ITF Transport Life Cycle Analysis Tool for India

- It helps **understand holistically** the implications of changes in transport modes, vehicles and fuels in the Indian transport sector.
- It provides insights on **how these different choices impact transport emissions** from a holistic perspective.



Partnerships

TIFAC

MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
A Constituent Institution of Manipal University

THE WORLD BANK
IBRD • IDA | WORLD BANK GROUP

UCDAVIS
India ZEV Research Centre

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Download the report

Technical study on Life Cycle Assessment of Passenger Transport in India

- Jointly developed with the World Bank
- Focuses on the **Indian passenger transport** sector
- **Lifecycle phases** include: vehicle and battery manufacturing, transporting the vehicle to the point of sale, vehicle usage, and related infrastructure
- **Results** from three electricity grid evolution scenarios on GHG emissions per pkm, vkm and vehicle.

25 VEHICLE CATEGORIES

Private two-wheeler – ICE/BEV (Scooter)
Private two-wheeler – ICE/BEV (Motorcycle)
Shared two-wheeler – ICE/BEV (Scooter)
Shared two-wheeler – ICE/BEV (Motorcycle)
Three-wheeler – ICE/BEV
Bus AC- ICE/BEV -9m
Bus AC- ICE/BEV -12m
Bus Non-AC- ICE/BEV -9m
Bus Non-AC- ICE/BEV -12m
Coach Bus AC ICE/BEV 12 m
Private car – ICE/BEV
Taxi/Ridehailing-ICE/BEV
Metro/urban train

Recommendations

- Initiate a modal shift from private vehicles to buses and prioritise their electrification
- Promote electric two- and three-wheelers
- Encourage a shift in the car fleet towards shared electric vehicles
- Choose corridors with high passenger demand for new metro lines
- Accelerate the transition to battery electric vehicles and complement it with the provision of cleaner energy
- Mainstream lifecycle assessment into public policy and investment decisions

What's coming up?

Advancing Freight Electrification in India:

- Collaborating with UC Davis India ZEV Research Centre
- Policy pathway for India's freight transition, to be published in early Q2 2024

LCA Tool Update:

- Second release underway, includes freight vehicles
- Currently collecting primary data
- Expected to be available in 2024

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Decarbonising Transport Initiative

Thank you!

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