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## Transport and Mobility Newsletter



### GIZ TRANSPORT NEWS

A service provided by the sector project Sustainable Mobility

### Dear sustainable transport friends,

Welcome to the GIZ Transport and Mobility Newsletter! This edition takes a closer look at e-mobility in all its forms, including two-and-three wheelers, electric buses, and electric freight vehicles. We will also give you an overview of upcoming learning opportunities and related knowledge products.

Worldwide, electric vehicles are seeing a big uptake. Electric buses, electric cars, bikes, rickshaws, delivery vehicles, and even boats are seeing increased market shares. With China in the lead, bus fleets for urban public transport are increasingly electrified. The e-bus market in India, for example, witnessed an increase of 65% in 2022. Interact Analysis forecasts that by 2025, **India will account for 10% of the global annual demand for e-buses**. In Latin America, several countries are committed to the e-bus transition, with a report showing an **increase of over 100% in the share of public e-buses in**

the region between 2020 and April of 2023. Colombia, Chile, México, and Peru have set out to work together to accelerate the e-mobility transition. Through a triangular cooperation project with support of GIZ, the four countries will collaborate on best practices, regulatory strategies, and post-life battery management.

This shift is about more than replacing one mode of transportation with another, it is a reimagination of urban mobility that will reduce GHG emissions and counter urban air pollution. Electric modes of transportation offer cleaner and more efficient alternatives for public transport and last-mile connectivity. The adoption of electric vehicles in logistics is a game-changer too, with electric delivery vans and trucks revolutionizing supply chains. And principles of circular economy, especially when applied to the lifecycle of EV batteries, can further support the shift towards electric mobility.

As always, we appreciate your continued support and encourage you to provide feedback and suggestions for future editions. Please contact us via [transport@giz.de](mailto:transport@giz.de). Together, let us continue striving for a sustainable transport future.

Kind regards,

### Your Transport and Mobility Team

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## Project Developments

### Electrifying Public Transport in Intercity, Rural Areas and Secondary/Satellite Cities in Rwanda

Status quo assessment





© Mateo Gomez Jattin

GIZ is supporting the government of Rwanda to develop a flagship project on decarbonising the public transport sector, with a specific focus on intercity transport, secondary and satellite cities, and rural transport.

This first report presents the status quo of the public transport sector in Rwanda. Delving into the country's climate objectives, the existing regulatory and planning framework, and the current state of intercity and rural public transport systems in secondary and satellite cities. These insights serve as the foundation for formulating recommendations aimed at fostering the net-zero transformation of the sector.

[Read the full report here »](#)

**Contact: Mateo Gomez**

*Funded by the International Climate Initiative (IKI) of the German Federal Ministry for Economic Affairs and Climate Action (BMWK), Mobilize Net-Zero supports governments in their commitment to decarbonise transport through building international partnerships.*



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## Headline

Headline

Wired for Progress: MobiliseYourCity's Electric Mobility Initiatives

# MobiliseYourCity Global Monitor

2024 Available now



© MobiliseYourCity

Comprehensive mobility planning facilitates an understanding of where electric transport can be most beneficial. Several MobiliseYourCity projects incorporate e-mobility measures. For instance, Colombia's National Urban Mobility Plan (NUMP) includes backing for a national funding program aimed at electric buses. In Ibagué, a pilot project seeks to promote shared electric bike usage, while in Suan Juan Comalapa, investments focus on electric tuk-tuks. Additionally, technical aid is extended to Nagpur for its transition to e-buses.

These initiatives, along with others aimed at reducing greenhouse gas emissions through electric mobility, are detailed in the MobiliseYourCity Global Monitor 2024.

[Global Monitor 2024 »](#)

**Contact: Giuliana Ambrosino**

*The MobiliseYourCity Partnership is the leading global Partnership for increasing investment in sustainable transport solutions. Thanks to the generous contributions of the European Union (EU), the Agence Française de Développement (AFD), the French Ministry for the Ecological Transition (MTE), the German Federal Ministry for Economic Cooperation and Development (BMZ), the German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety, and Consumer Protection (BMUV) and the French Facility for Global Environment (FFEM), as of February 2024, MobiliseYourCity supports 38 member cities and 8 member countries, 4 non member countries and 7 non member cities with technical assistance and project preparation.*



## Transforming School Mobility in Bogotá

Empowering sustainable school transit: electrification initiative





Gap Fund, © GIZ Colombia

In Bogotá, a staggering 14 million trips occur daily, with 2.5% dedicated to school transportation. Notably, this mode of transport contributes around 5% of particulate matter (PM) 2.5 emissions. In response, Gap Fund spearheads a project to electrify Bogotá's school bus fleet. Alongside, a pilot program will launch, exploring scalability options through potential integration with tourist and business transportation. Moreover, a comprehensive 360° communication strategy is in development, aimed at highlighting the benefits of such technologies in school transportation.

[Visit the Gap Fund website »](#)

**Contact: Marcela Neira**

*The City Climate Finance Gap Fund ("Gap Fund") is a partnership between the Federal Ministry for Economic Affairs and Climate Action (BMWK) of Germany, the Federal Ministry for Economic Cooperation and Development (BMZ), and the Ministry of Environment, Climate, and Sustainable Development. The implementing partners are the European Investment Bank (EIB) in collaboration with the German Development Cooperation and the World Bank (WB).*



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## Enhancing Safety in India's Electric Bus Sector

Raising e-bus fire safety awareness





Safety workshop at Raighat e-bus depot, © GIZ

India is making significant strides towards decarbonizing its transport sector, with a vision of achieving 30% Electric Vehicle (EV) sales penetration by 2030, as outlined by NITI Aayog. The conducive policy instruments have propelled India to the forefront of global EV adoption, with 3.5 million EVs already on the roads. However, recent fire incidents involving EVs worldwide have raised pertinent safety concerns.

To eliminate potential e-bus safety hazards, the Ministry of Heavy Industries, Government of India, initiated an advanced training programme for e-bus stakeholders from public bus agencies and fire service departments. The curated modules are designed to address the specific upskilling needs of the different hierarchies through theoretical input and demonstration.

[Read more about the initiative »](#)

**Contact: Amruta Kulkarni**

*Promotion of Transformation to Sustainable and Climate-friendly E-mobility (E-mobility) is implemented by Ministry of Heavy Industries (MHI) and GIZ. The project is commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ).*



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## Electrifying Mérida's Bus Network

The state of Yucatán looks to become e-bus pioneer in southern Mexico



Electrifying the bus network, the vision in Yucatán, © Yucatán Transport Agency

The State of Yucatán has recently introduced e-bus routes that connect the southern and eastern conurbated cities to the downtown of Mérida, the capital city of Yucatán. An additional line connecting the north will be launched shortly. While these routes with modern Irizar e-buses are the flagship project of the current State Government, the Yucatán Transport Agency (ATY) is leveraging the installation of an electric charging depot in the downtown area to introduce additional e-bus routes.

The TranSIT project, implemented by GIZ, has provided technical assistance to the ATY regarding electric charging infrastructure, and has helped the agency develop an internal methodology to evaluate what routes have best conditions to be converted to electric battery buses. By the end of 2024, Yucatán aims to become the state with the most electric buses in México.

[Read more about the work of TranSIT »](#)

**Contact: Andres Rojo**

*Transition to Integrated and intelligent public transport Systems (TranSIT), in México is implemented by GIZ on behalf of the German Federal Ministry for Economic Cooperation and Development (BMZ).*



## She Drives the Future: Women Take the Wheel of EV Revolution in India

Empowering women as trainers in electric mobility paves the way for a greener, more inclusive transportation sector





© GIZ

Electric vehicles are transforming cities, and a groundbreaking initiative is ensuring that women are at the forefront of this change. The Indo-German Development Cooperation project “Sustainable Urban Mobility: Air Quality, Climate Action, and Accessibility” (SUM-ACA) conducted an innovative training program empowering over 20 women drivers to become trainers for electric autorickshaws. These trailblazers will train 1500 more women drivers in the coming year, dismantling stereotypes and opening doors in a traditionally male-dominated field. It's a win-win for cleaner commutes, empowered women, and a greener tomorrow!

#### Key areas:

- Enhancing road safety
- Promoting gender diversity
- Fostering empowerment

[Learn more about it »](#)

In the following video you can learn more about the revolution of urban mobility through gender transformative interventions in India.

[Click here to see the video »](#)

**Contact: Krishna Desai , Manjunath Sekhar**

*The Indo-German Development Cooperation project “Sustainable Urban Mobility – Air Quality, Climate Action, Accessibility” (SUM-ACA) is implemented jointly by the Ministry of Housing and Urban Affairs (MoHUA), Government of India, and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH. It is commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ).*





# Thailand and Germany Forge Ahead with Clean Energy and Transport Initiatives

A discussion event on electric mobility, followed by Thai Prime Minister visit in Germany



Discussion event at the Royal Thai Embassy, © Agora Verkehrswende

Two significant events highlighted the commitment of Thailand and Germany in enhancing their cooperation on sustainable transport. The Royal Thai Embassy in Berlin hosted an event on EV advancement in Thailand on February 6 2024 in cooperation with Agora Verkehrswende, which is part of the **TGC EMC** project consortium. This hybrid discussion event was titled 'Talking Transport Transformation: Electric Mobility in Thailand and Germany – Joining Forces for climate-neutral Mobility'. The Prime Minister of Thailand, Srettha Thavisin, visited Germany in March and discussed with Olaf Scholz, the Chancellor of Germany, about clean energy and EV's.

[Read the full article here »](#)

**Contact: Dominika Kalinowska**

*The Thai-German Cooperation on Energy, Mobility, and Climate (TGC EMC), funded by the International Climate Initiative (IKI) under Germany's Ministry for Economic Affairs and Climate Action (BMWK), supports Thailand's commitment to carbon neutrality by 2050 through its five components: Renewable Energy, Transport, Decarbonisation in Industry, Biomass to Energy, and Climate Finance, TGC EMC facilitates technology transfer, policy development, and business model innovation.*



## Community-Driven Innovation for Sustainable Urban Mobility

Shared Electric Autorickshaws providing last mile connectivity



© GIZ

Green Urban Mobility Innovation Living Lab (GUMILL) proudly introduces the loop service pilot in Malleswaram, Bangalore, a testbed for innovations. This shared electric autorickshaw initiative, developed along the Living Lab Principles, emphasises community-centric innovation.

Four loop routes will connect areas of interest. It offers cost-effective travel for passengers and stable incomes for drivers, enhancing accessibility and economic stability. Beyond its local impact, the project aims to drive policy changes for shared autorickshaw operations. Such initiatives complement public transport, benefiting urban commuters. Malleswaram's loop service pilot embodies sustainable urban mobility and the transformative potential of community-driven innovation.

[Read more »](#)

**Contact: Manjunath Sekhar**

*Green Urban Mobility Innovation is a develoPPP collaboration between Bosch Ltd. India and GIZ India, Commissioned by: Federal Ministry of Economic Cooperation and Development (BMZ).*



## KNOW HOW

### Power Market Reforms to Enable Renewable Energy Based EV Charging in India





© GIZ

In its pursuit of decarbonisation targets and commitments towards a greener future, India stands at the forefront of a transformative journey towards electrifying its transportation sector. Yet, the true realisation of decarbonisation through electric vehicles hinges on the integration of renewable energy sources into the charging infrastructure.

Keeping this in view, Bengaluru, Kolkata, and Panaji were identified to assess their present situation and preparedness with respect to renewable based EV charging. The study conducted a comprehensive analysis of the three cities, identified gaps with respect to international best practices, and suggested recommendations (financial and non-financial) on the fronts of policy, regulations, and technology.

[Read the full report »](#)

**Contact: Suraj Kanojia, Radhika Sangal**

*Nationally Determined Contributions - Transport Initiative for Asia (NDC-TIA) India. NDC-TIA is part of the International Climate Initiative (IKI), which is working under the leadership of the German Federal Ministry for Economic Affairs and Climate Action, in close cooperation with its founder, the Federal Ministry of Environment and the Federal Foreign Office.*



## How the E-Bus Emissions Assessment Tool (E-BEAT) can help estimate GHG and air pollutant mitigation and support ambitious e-bus target setting

The cases of Mumbai (India) and São Paulo (Brazil)





Presentation of 50 electric buses in São Paulo in 2023, © City of São Paulo

The **E-Bus Emissions Assessment Tool (E-BEAT)** has been developed together with **SOLUTIONSplus** e-mobility project to support the advocacy for the widespread deployment of electric buses, with a primary focus on the potential reduction of greenhouse gas (GHG) emissions and local air pollutants. The analysis for the case studies of Mumbai and São Paulo shows that for cities in a country with a clean energy mix, there is an immediate positive impact on climate and air pollution. Even for those cities in a country with a relatively high emission grid factor, the prompt positive effect on air pollution underscores the importance of setting ambitious targets in the present and near future.

[Learn about the cases in Mumbai and São Paulo »](#)

**Contact: Jens Giersdorf**

*The TUMI E-Bus Mission is implemented by C40, GIZ, ICLEI, ITDP, WRI and UITP and funded by the German Federal Ministry for Economic Cooperation and Development (BMZ).*



## Electric Two-and-Three-Wheelers: Steering the Mobility Revolution

Six-week E-Learning course



© ROAM

The new six-week e-learning course by TUMI focuses on the rise of electric two-and-three-wheelers in the Global South. Participants can explore topics like governmental policies, technological advancements, and financial strategies crucial for electric mobility adoption. Electric vehicles (EVs) are presented as eco-friendly and cost-effective alternatives to traditional transportation, especially in emerging economies. The curriculum covers innovative financing models, procurement strategies, and sustainability practices throughout the EV lifecycle. Participants can gain practical insights and theoretical knowledge, equipping them to navigate regulations and implement sustainable transportation solutions.

[Find the course here »](#)

**Contact: Marvin Stolz**

*With the Transformative Urban Mobility Initiative (TUMI), the German Federal Ministry for Economic Cooperation and Development (BMZ) is supporting climate-friendly, inclusive, safe and affordable mobility in cities. TUMI is the leading global implementation initiative on sustainable mobility, formed through the union of 11 prestigious partners. TUMI is funded by BMZ and implemented by GIZ in collaboration with all TUMI partners.*



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