Deep Dive City
Delhi
India

General information about the city

- **Population**: 16.8 million (2011), 20.5 million (2021)
- **Average temperature**: 24 °C
- **City area**: 1484 km²
- **Annual rainfall**: 617 mm (annual), 119.3 mm (highest)
- **GDP (US Dollars)**: 293 billion
- **Renewable energy share (in MW) (MOSPI)**: 0.2%
- **Number of car ownership**: 157 vehicles per 1,000 people
- **Directorate of Urban Mobility System**

Urban Mobility System

**Modal split**

- **Walking**: 35%
- **Bus**: 27%
- **Car/Taxi**: 9%
- **Auto-rickshaw**: 5%
- **Metro/Train**: 4%
- **Cycle-rickshaw**: 2%
- **Biking**: 4%
- **2-Wheeler**: 14%
- **Auto-rickshaws**: 5%
- **Metro**: 4%
- **Cycle-rickshaws**: 2%

**Public transport modes**

- City buses operated by Delhi Transport Corporation (DTC) and Delhi Integrated Multi-Modal Transit System (DIMTS) Ltd
- Autorickshaws
- Metro
- Cycle-rickshaws

**Avg distance travelled per day by bus**

- 218 km cluster buses
- 190 km DTC buses

**Fleet utilisation**

- 86.69%

**Fleet age**

- 7 years

**Carried passengers**

- Avg Daily Bus Ridership: 2.4 million
- Delhi Transport Corporation–1.5 million and Cluster buses operated by DIMTS–900,000

**Total no. of routes**

- 650

**Climate risks**

- High risk of earthquakes
- Floods
- Fire outbreaks
- Air Quality Index – Satisfactory
Climate and Urban Mobility Policies

Vision for net zero urban mobility

Delhi has a policy to have 25% of all new vehicle registrations to be electric by 2024. The vision is to bring down transport emissions by ensuring early success in the electrification of city bus services and establishing a durable foundation for faster emobility adoption.

Experiences

- 2018: Delhi Govt presented its ‘Green Budget’ for procuring 1,000 e-buses;
- 2019: Issued a global tender for 375 e-buses;
- DIMTS completed a feasibility study on e-buses;
- 2020: Another 575 buses were tendered out in clusters;
- Delhi receives its first (12 m) AC low floor prototype buses;
- 2021: Delhi with a demand of 1,500 (12 m) low floor AC e-buses, participated in the Grand Challenge floated by Convergence Energy Services Limited (CESL);
- In 2022, Delhi subscribed 1,500 (12 m) low floor AC and 100 (9.5m) AC double decker e-buses through the Grand Challenge floated by CESL.

Electrification model

DTC takes the major role to manage the e-bus network and the operator consortium (OEM + bus operators + energy service providers) carries out the operation and maintenance of the e-buses. The operator consortium receives a payment from DTC on passenger km travelled by e-buses.

Electric Buses

**Targets for electric bus adaption**

1. 610 e-buses by 2022
2. 50% electrification by 2027

**Procurement and planned projects**

- Aug 2022: 152 (12 m) AC low-floor e-buses have been procured;
- 3 depots have been electrified.

Planned projects

- Aug–Sept 2022: 300 (12 m) AC e-buses;
- 2023: procure 100 (9.5 m) e-buses & to electrify 26 depots;
- Grand Challenge tender: receive 1,500 (12 m) low floor AC e-buses.

**Political commitments**

- Developing a city-wide framework for timely electrification of depots, Taking note of all envisaged external challenges;
- Using cleaner and zero emission fuels to increase accessibility and reliability on public transport.

**Bus technology share**

- 7,141 ICE – Buses
- 152 E-Buses

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**Status**

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