ACTIVE MOBILITY

Action on Urban Transport

Provisions of new walking & cycling infrastructure,
Public transport measures, E-vehicles

- By Mangesh Dighe
  Environment Officer
  Pune Municipal Corporation
The Changing Mobility Scenario in Pune City

Pune City 1970-80 (Cycle City)

Pune City 1980-90 (Moped City)

Pune City 2017-18
Area: 331.56 sqkm
Population: 3.4 million

Sector-wise GHG Emissions (Tonnes CO₂ e)
- Residential 32%
- Commercial 18%
- Industrial 19%
- Agriculture 0%
- Transport 23%
- Others 4%
- Municipal 4%

Source: ICLEI – Solar City Master Plan
Transportation & Mobility
#1 concern of PUNEKARS’

Citizen engagement output - top concerns for citizens of Pune

Pan City Initiative
0.3 million Citizen Engaged in Two Months

1. Transportation & Mobility
30%

2. Water Supply & Sewage
25%

3. Waste & Sanitation
22%

4. Environment & Sustainability
12%

5. Safety & Security
3%

6. Energy
2%

#1 concern of PUNEKARS’ Pan City Initiative
0.3 million Citizen Engaged in Two Months
Pune aspires to become one of the most liveable cities in India, by solving its core infrastructure issues in a “Future-Proof” way, and by making its neighborhoods beautiful, clean, green and liveable.
National Urban Transport Policy (2014)
To Ensure Safe, Affordable, Quick, Comfortable, Reliable & Sustainable Access for The Growing Number of City Residents.

National Electric Mobility Mission Plan 2020 (2013)
To Achieve a Vehicle Population of About 6-7 Million Electric / Hybrid Vehicles in India by The Year 2020

Faster Adoption & Manufacturing of Hybrid & Electric Vehicles (Fame) (2015)
To Support The National Electric Mobility Mission Plan (NEMMP) 2020 with The Goal of Reaching 6-7 Million Electric/Hybrid Vehicles in India By 2020

Green Mobility Scheme
• To Address Infrastructure For Bus Based Transport To Bring In Private Entrepreneurial Spirit In Operations To Promote Non-motorized Transport (NMT) And Last Mile Connectivity
• To Promote Alternate Fuels And Electric Mobility And Address High Fatalities Of Pedestrians.
Transportation Initiatives – Based on National Level Policy

NMT Timeline

- **2008**: Pune Streets Programme (PSP) - Initiated a holistic approach in the design of streets under the USGD, with around 100 km of streets across the city to be redesigned with wide, safe, and continuous footpaths in coming years.

- **2016**: Walk Smart Pedestrian Policy - Drafted with the vision of making Pune a pedestrian-friendly city by prioritizing pedestrians and cyclists over vehicles.

- **2018**: Parking Policy - The first Indian city to adopt a progressive parking policy emphasizing efficient parking management as a way to discourage private vehicle use and encourage citizens to use public transport.

- **2017**: Comprehensive Bicycle Plan - First city to create a City-wide Bicycle Plan, with a proposal to create 400 km of cycle-friendly streets. Intended as the primary guidance document for the city to allocate resources, undertake projects and evaluate the outcomes towards achieving the goals set for improving cycling in Pune.

- **2018**: Public Bicycle Sharing Systems - Public Bicycle sharing systems 2017. 4 PBS operators to serve as another mode of transport for commuters and provide efficient last-mile connectivity for public transit users.

Pune City – Sustainable Transport Planning
GOAL 1.2

Strengthen low carbon & shared mobility services in Pune urban region

ACTION 1.2.1
Enhance institutional capacity and coordination for mobility planning at PMC and for the Pune Urban Agglomeration (UA)

ACTION 1.2.2
Improve bus-based public transit

ACTION 1.2.3
Integrate and improve para-transit and shuttle operations for last mile and local area shared mobility

ACTION 1.2.4
Improve facilities for pedestrians and cyclists

ACTION 1.2.5
Institute a comprehensive public engagement program on sustainable mobility
Pilot Stretch under Smart City Program
Aundh

BEFORE

AFTER

BEFORE

AFTER
Creating Streets For People

First Indian City to adopt Street Design Guidelines Informing National And State Guidelines
Walk the Talk

Successful implementation of “Pune Street Programme (PSP)”

65 kms of streets completed by 2019
Pune City – Street Plan to retrofit 100km of Street

Pune City – Urban Street Design Guidelines

STREET ELEMENTS

All people should be able to move safely, smoothly and conveniently

Make streets safe, clean, attractive and comfortable for people to walk and drive

Streets to reduce impact on natural and built environment. To have green streets in the city.

Street elements

Safety elements

Multi utility zone

Footpath - clear walkway
Cycle Track - NMT Lane
Bus stops
BRT lanes
Carriage way - MV lane
Shoulders
Parking

Pedestrian Crossings
Traffic calming measures
Speed breakers
Traffic Signals
Central Medians
Railings
Bollards
Street lights
Street furniture
Signage, markings

Plantation
Utility and services
Storm water management
Garbage containers
Public toilet

Parking

The sketch is only an illustration indicating various street elements and not its technical design.

https://www.pmc.gov.in/en/urban-street-design-guidelines-usdg
Creating Streets for People

- Bulb outs
- Bollards
- Lighting
- Table top crossings
- Refuge islands
- Traffic calming

Creating safer for all, universally accessible streets
Pune Parks... It Right...

https://www.pmc.gov.in/enPMC-PMC-Parking-Policy
First city to create a City-wide Bicycle Plan
With a proposal to create 400 kms of cycle-friendly streets

Pune City –
Bringing Back Cycling Story
Green Buffer

Dedicated Cycle tracks

Shaded walkways and cycle tracks

Shaded Sitouts

FC Road

Pune Cycle Plan
Last mile Connectivity:
Public Bicycle Sharing Program

https://www.pmc.gov.in/en/bicycle-plan-0
Urban 95 Programme
Child Friendly Streets
Pune pilots a ‘Rainbow’ Bus Rapid Transit System (BRT)
Mass Transit System: METRO

Total Length: 33.28 km
Corridor 1: 17.53 km & 14 Stations
Corridor 2: 15.75 km & 16 Stations
Corridor 3: Proposed: 23.33 km & 23 Stations
Preparation of Air Quality Action Plan of Pune City under National Clean Air Program (NCAP)
Since 2011, the 3wheeler Auto-rickshaws running on petrol & diesel are given a subsidy of Rs. 12,000/- to convert to CNG

Auto-rickshaws taken benefit: 16,836
Pioneer in Electric Buses

City with the Largest E-bus fleet in India...

India’s first E-Bus depot built in Pune

Out of Total Bus-fleet
70% CNG buses..
E-buses plying - 150
Order Placed for - 150 more
Target to Reach 500 Buses..
**CITIZEN EXPERIENCE “YEHI HAI RIGHT CHOICE”**

- **43.19 LACS** Kms Run
  - Unmatched Performance From Feb. 19 to 10th Nov. 19
- **14.39 L** FUEL AVOIDED
  - Save Nature
- Reduced Co2
  - Save Nature Compare to Diesel Buses
- No.1 In India
  - Highest no. of e-Buses
- **International Standard**
  - Better Customer Experience

**CUSTOMERS EXPERIENCE “YEH DIL MANGE MORE”**

- Air Condition
  - Maintain temp. Comfort
- Mono coque chassis
  - Less Vibration Comfort
- No maint. burden
  - GCC Model Comfort
- Low Noise Level
  - 74dB Comfort
- Zero Pollution
  - Clean Air Comfort
- Safe Travel
  - Disc Brakes Comfort

**DEPARTMENT EXPERIENCE “SUPER HIT”**

- No Driver burden
  - GCC Model Comfort
- No fuel Burden
  - GCC Model Comfort
- More income
  - Increase Traffic
- Excellent Brand Image
  - Electric Bus Performance & Reliability
- No.1 MAHA STATE
  - Electric Bus Performance & Reliability
E- Bike renting project approved by Standing Committee of Pune Municipal Corporation

E-bike renting project gets a nod in the city

By Supriya Dedgaonkar / Updated: Jun 27, 2020, 06:00 IST

In order to minimise the use of petrol and diesel vehicles that emit harmful gases and pollute the environment, Pune Municipal Corporation (PMC) and Pune Smart City Development Corporation Limited (PSCDCL) have given a nod for an electric bike renting project, which is expected to hit the road in a couple of months. The venture has been approved under the Green Pune initiative, wherein a company called V-Tro Motors Pvt Ltd will be taking charge of all the operations.
E-vehicles registered in Pune RTO till Dec 2020

- E- Buses : 156
- E- 4 Wheelers : 398
- E- 3 Wheelers : 239
- E- 2 Wheelers : 3264

E-bike shops are getting popular in Pune
Covid-19 Lockdown - Reduction in Air Pollution

### Particulate Matter - PM\textsubscript{10} & PM\textsubscript{2.5}

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<th>After Lockdown Avg (23 Mar - 14 Apr)</th>
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### NO\textsubscript{2} Concentration

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SDG 13 – Climate Action

Take Urgent Action to Combat Climate Change & its Impacts
Inspiring other Cities..
Pune wins Sustainable Transport Award 2020!

Shreya Gadepalli, ITDP South Asia Director, accepted the Sustainable Transport Award on the behalf of the city of Pune, India from the First Lady of the city of Fortaleza, Brazil, Carolina Cunha Bezerra.
ACTIVE MOBILITY – BRINGING PEOPLE TOGETHER