





GOVERNMENT OF INDIA MINISTRY OF HOUSING AND URBAN AFFAIRS

भारत 95 एक कदम स्वच्छता की ओर

GLOBAL OVERVIEW OF LOW EMISSION ZONES

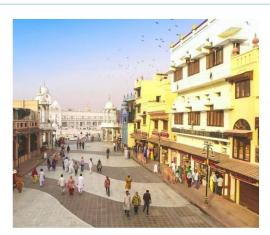


BY PRAMODA GODE

SENIOR EXPERT, SUSTAINABLE TRANSPORTATION & ELECTRIC MOBILITY

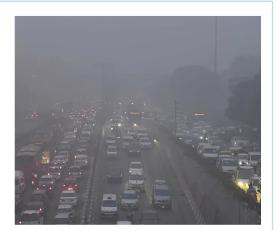


URBAN VEHICLE ACCESS RESTRICTIONS (UVARS)



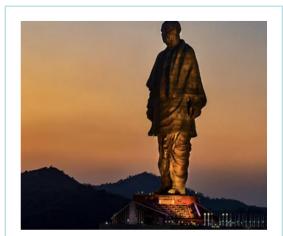
Golden Temple, Amritsar

Pedestrian Zones



Delhi, NCR

Emergency Zones



Kevadia, Gujarat

Special Zones



UVARS IN INDIA

UVAR type	Indian examples	Better air quality	Lower congestion	Road safety	Road Rationalis- ation	Raising revenue	Quality of life	Cleaner vehicle fleet	Acceptance	Potential of large scale impact
Ped-friendly streets	Raahgiri	Somewhat								
Complete streets	Pune/Chennai			Moderate	Certain					
HDV timings	Ahmedabad									
Congestion charge	Mumbai*									
Environmental cess	Delhi									
Toll	Highways									
Low/zero emission zone	Kevadia**									
Zero emission area	none									

* Proposed ** Planned

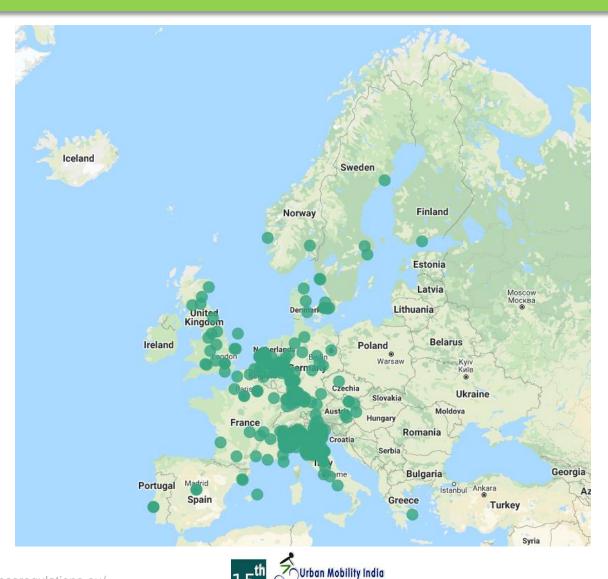


WHAT IS A LOW EMISSION ZONE?

- well-defined geographic area
- entry to vehicles is regulated
- depending on tail-pipe emissions
- restrictions are tied to the emission standards
- strictly enforced
- backed by a host of complementary measures
- to improve local air quality and reduce GHGs



>300 LEZS IN EUROPE ALONE



nference & Expo2022

2019: 228 2022: 320 2025: 507*

SUCCESS DEPENDS ON FEATURES





CITIES ARE MOVING TOWARDS ZEZS

2018 London Boroughs of Hackney and Islington, United Kingdom 2020-2021 City of London (pilot) 2030 Paris, France 2023 Copenhagen, Denmark (pilot)
2025 Copenhagen, Denmark (pilot)
2030 Amsterdam, Netherlands
2030 Eindhoven, Netherlands
2030 30-40 cities, Netherlands
2015 Rotterdam, Netherlands

•—2023 Luoyang, China

 2018 Shenzhen, China (pilots)

	Zero-emission zone for freight (ZEZ-F) to allow BEVs and FCEVs only	Near-zero-emission zone for freight (near-ZEZ-F) to allow BEVs, FCEVs, and PHEVs only
Implemented	0	—
Planned	•	•

Applies to freight vehicles only (e.g., urban delivery vehicles and trucks)



	Zero-emission zone (ZEZ) to allow BEVs and FCEVs only	Near-zero-emission zone (near-ZEZ) to allow BEVs, FCEVs, and PHEVs only
Implemented	-	•
Planned	•	-

Applies to all motorized vehicles

LESSONS FROM GLOBAL EXPERIENCES

- Alignment with political mandate is key
- Early stakeholder engagement is required
- Real alternatives need to provided
- National legal framework is fundamental
- Feasibility Analysis is essential
- Start with a pilot
- Increase ambition with phased implementation





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