

WORLD Resources Institute

WORLD RESOURCES INSTITUTE: E-BUS BARRIERS & ENABLERS

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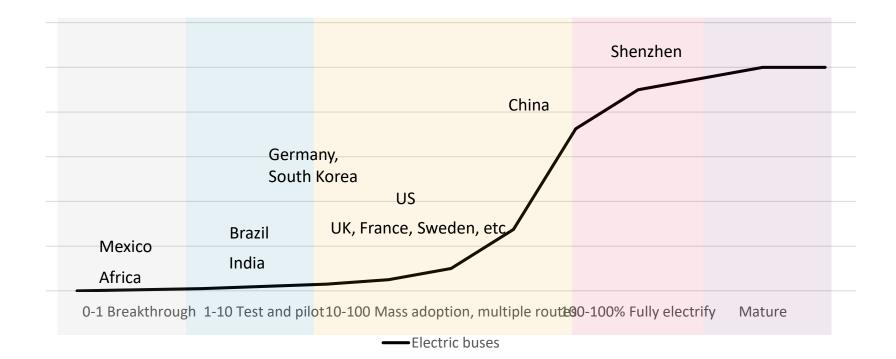
OBJECTIVE: ACCELERATE THE TRANSITION TO ELECTRIC BUSES



Hybrid buses



LEADING TO THE DEVELOPMENT OF A FRAMEWORK





E-Bus Projections through 2025

Despite global progress, electric bus adoption outside of China will be marginal in 2025.

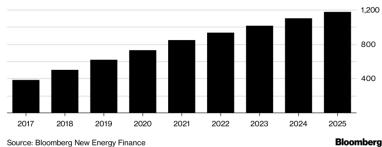
Estimated total # of e-buses in 2025:

<u>India</u> 13,000 Latin America 16,000 China

1,200,000

Here Comes the Electric Bus

China forecast to dominate a market expected to more than triple in seven years



Total electric bus deployments, in thousands

WRI E-BUS PORTFOLIO

<u>Tools</u>

- E-bus cost-benefit calculator
- E-mobility infrastructure cost calculator
- E-mobility infrastructure analytic model
- (Coming Soon) E-bus operational data portal
- (Coming Soon) E-bus technical specification database

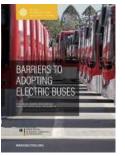
Technical Assistance Projects (Sample)

- Beijing
- Bogota
- Delhi

- Medellin
- Sao Paulo
- Santiago

Stay tuned for more

Recent Reports





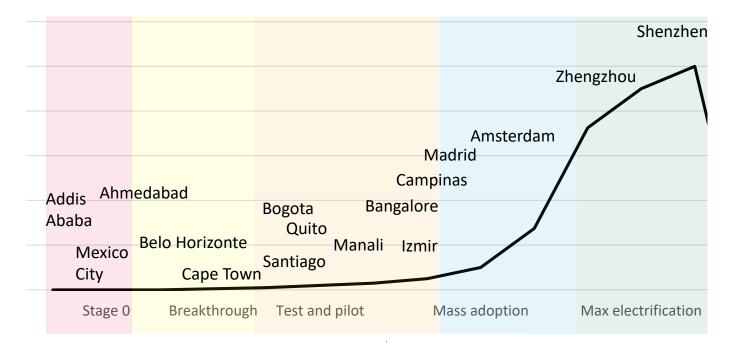


WRI E-BUS REPORTS CONSIDERED 16 CASE STUDIES





CASE STUDY CITIES DISTRIBUTED ACROSS ADOPTION CURVE





CONSISTENT CASE STUDY METHODOLOGY

Primary stakeholders

Secondary

stakeholders Tertiary stakeholders

- Interviews with local stakeholders through an in-depth questionnaire
 - Institutional Cost and finance
 - Governance- Social
 - Technology Environmental
 - Operations



Standardised case-study template



Pervasive Barriers to E-Bus Adoption

Common Challenges Across Regions





Lack of knowledge



Technical limitations



Procurement Practices



Non-Scalable

Financing

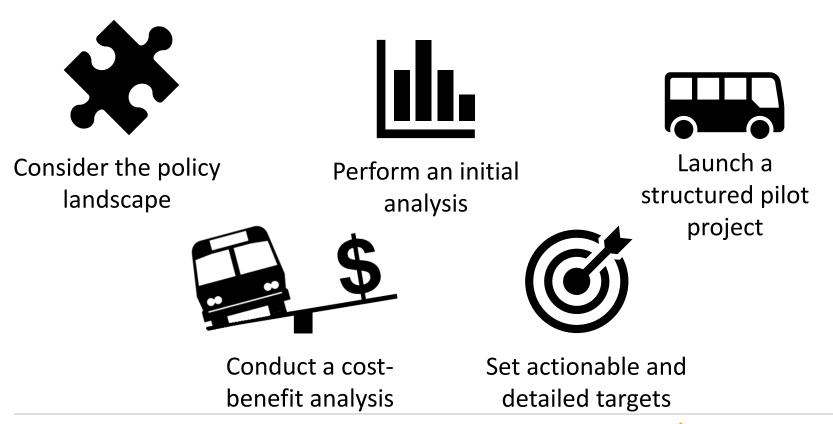


Institutional Limitations



Most common oversight: Charging Infrastructure & Associated Real Estate

PLAN FOR MASS E-BUS ADOPTION

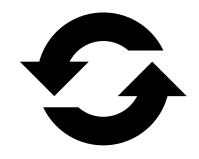


ACHIEVE MASS E-BUS ADOPTION





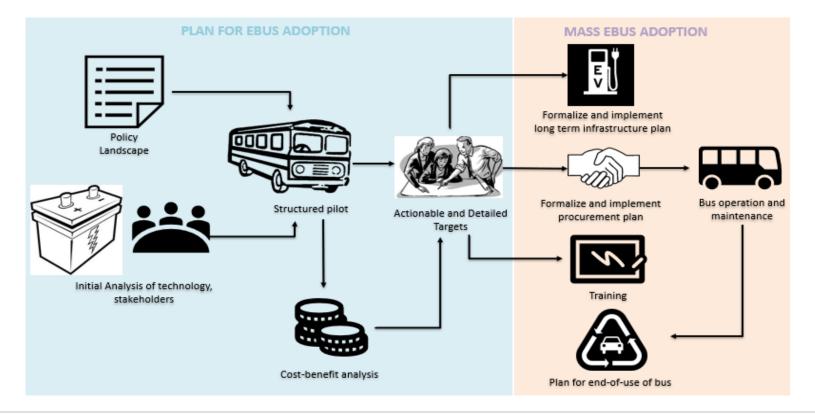




Formalize and implement long-term infrastructure plan Create and execute e-bus procurement plan Provide training Plan for end of use



ENABLERS







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