Agenda item 4.1 (c) (i) Paragraph 35 of the annotated agenda

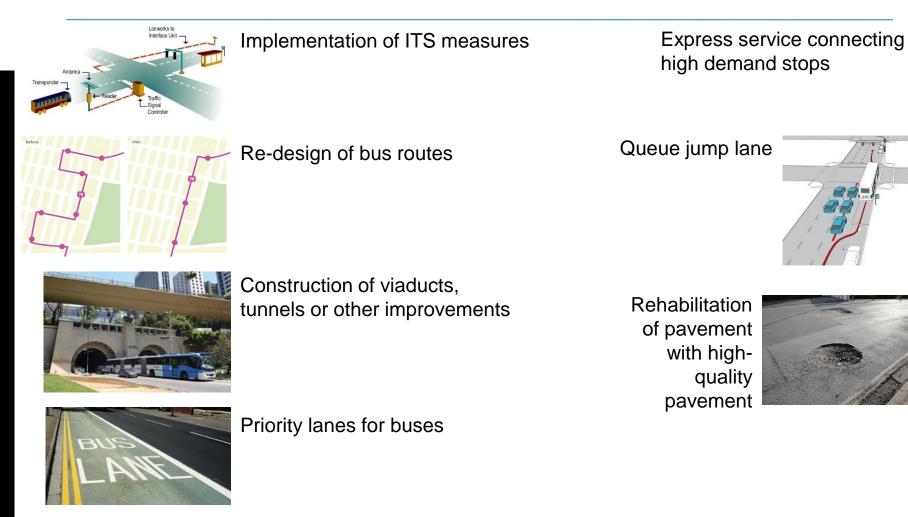
AMS-III.xx: Efficient Operation of Public Transportation

CDM EB 102 Bonn, Germany, 25 to 28 March 2019



UNFCCC Secretariat SDM programme

Types of projects covered





Agenda item 4.1 (c) (i)

Paragraph 35 of the annotated agenda

Background

- EB 89: concept note to develop new top-down methodologies in transport sector;
- MP 76: draft methodology recommended
- EB 100: draft methodology considered
- EB 101: considered the draft methodology and requested MP to revise to:
 - include simplified methods to reflect the secondary effects on the baseline during the crediting period;
 - whether total VKM is an appropriate indicator.



Purpose

The purpose is to address the concerns expressed by the Board at EB 101.



Agenda item 4.1 (c) (i) Paragraph 35 of the annotated agenda

Key issues and proposed solutions

Previous version	Issue	Current Version
Emission reductions adjusted by the ratio of Vehicle Kilometers (VKM) in year y and year 1	Monitoring of VKM would add significant monitoring burden to the project	Emission reductions adjusted by the ratio of specific energy consumed per passenger kilometer in the baseline and in year 1 based on a campaign. An alternate option to use literature sources to establish the ratio is also included



Key issues and proposed solutions

- Emission reductions in each route:
 - Passenger-kilometer (P_{k,y});
 - Average distance travelled by passengers (AVD_{PKM,k,y});
 - CO₂ emission factor per passenger-kilometer (EF_{CO2,PKM,k,y});
 - Emission Reduction factor (*ERF_k*).

$$ER_{y} = \sum_{k} P_{k,y} \times AVD_{k,y} \times EF_{CO2,PKM,k,y} \times EF_{k}$$

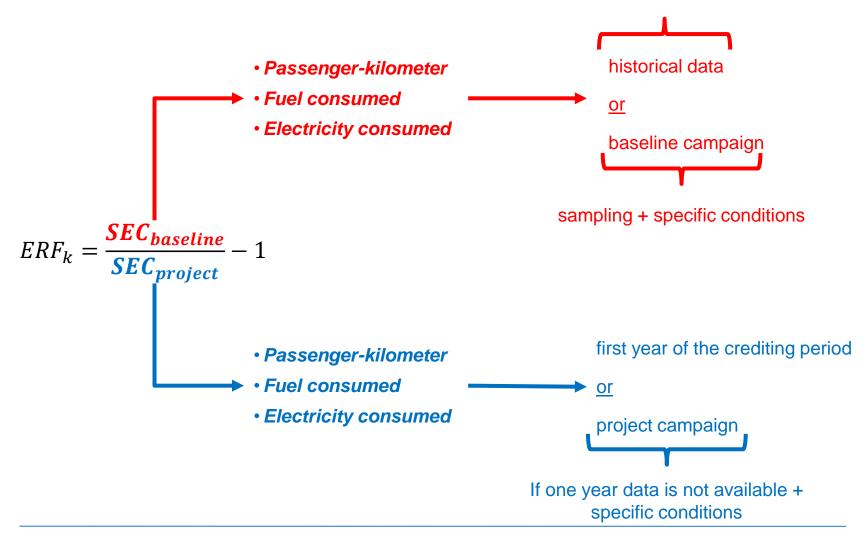
a) Measurements (baseline and project)
b) Literature, reports, studies



Agenda item 4.1 (c) (i) Paragraph 35 of the annotated agenda

Key issues and proposed solutions







Agenda item 4.1 (c) (i)

Paragraph 35 of the annotated agenda

Applicability Conditions

- The data to determine specific energy consumed (SEC) in baseline and project is from the same cohort of buses from which Emission Reduction Factor (*ERF*) was calculated;
- Measures impacting the occupancy of buses shall not be implemented before the SEC in the project route is determined.
- Buses may be replaced by more efficient buses or by buses with a higher capacity;
- Not applicable to projects implementing a new BRT or expanding an existing BRT by creating new lanes.



Impacts

The proposed new methodology will broaden the portfolio of methodological standards in the area of transport.



The MP recommends that the Board to approve the methodology.

