Project Finance Factsheet

100 Electric Bus Trial
Daerah Khusus Ibukota (DKI)
Jakarta, Indonesia

**TYPE**
E-mobility

**SECTOR**
Transport

**OVERVIEW**
The C40 Cities Finance Facility is supporting Jakarta to conduct an e-bus trial in the city. Transjakarta (TJ), the public transport company for Jakarta, will incorporate a fleet of 100 e-buses in its network to create a foundation for the city’s long-standing efforts to provide sustainable mobility in the city and improve air quality. The project also contributes to Jakarta’s target of reaching a modal share of 60% in public transport and electrifying 50% of TJ’s fleet by 2025.

Jakarta is a signatory of C40’s Green and Healthy Streets declaration, and mass transit electrification is amongst the declaration commitments made by the city.

**Implementing agency**
- PT. Transportasi Jakarta (TransJakarta)
- The Provincial Government of DKI Jakarta

**Timeline**

- **Project Preparation**
  - Q3 2020: Financial Feasibility Study
  - October: Technical Feasibility Study & Business Case
  - December: Preparation of Procurement Documentation

- **Procurement**
  - Q1-Q2 2021: Procurement Process of e-bus trial split into two batches
  - February & May: Contract Award
  - April & July: Financial Closure

- **Start of Operation**
  - Q3 2021

**Key Climate Impacts & Development Outcomes**

- **Average annual GHG emission reduction (2021-2030):** 3,349 tCO₂e
- **Cumulative GHG emission reductions over the project horizon (2021-2050):** 100,461 tCO₂e

- Jakarta aims to achieve a transport modal share of 60% by 2030
- Electrifying 50% of TJ’s fleet by 2025
- Electrification of TJ fleet could save up to 0.21 µg/m³ from PM2.5 concentration, 58 annual premature deaths averted and 975 Life Years (LY) gained
- Traveling comfort, improved air quality, less noise, traffic reduction and operational & maintenance cost are reduced

**Figure 1. TransJakarta’s Electrification Plan. Source: TransJakarta, 2020**
Proposed Procurement Method
• PPP: Gross Cost Contract
• Length of concession: 7 years
• Type of tender: Open tender via DKI Jakarta

The procurement of e-buses and charging infrastructure will be made by bus operators in Jakarta. TransJakarta will pursue a Gross Cost Contract, anticipating subsidies from DKI Jakarta.

**Total CAPEX**
US$37.35 million

- **US$2.51m** Charging infrastructure cost
- **US$1.78m** Contingency
- **US$33.06m** Bus costs
  - 100 e-buses

**Proposed Funding**
1. TJ’s funding sources are:
   - DKI Jakarta subsidies
   - Fare-box revenue
   - Advertising revenue
2. Bus operators funding source is IDR/km provided by TJ.

**Readiness Issues**
Renewable energy (RE) is in its infancy in Indonesia. Increasing RE will have significant impact on GHG reduction related to the e-bus transition.

**Legal**
- DKI Jakarta Mid-Term Development Plan 2017-2022
- Presidential Regulation 55-2019 (Acceleration of battery-electric vehicles for road transport)

**CFF Support Summary**
- Stakeholder and Project Management to reach financial and technical readiness of the e-bus trial project
- Advice on technical and economic parameters of e-bus operations
- Gender Analysis and Co-Benefit Analysis determining economic, health, and air quality benefits
- Procurement Strategy for 100 e-bus trial
- Capacity Development activities for city officials on key topics relevant to Project Preparation and Implementation

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