

Update Policy Dialogue: Jakarta City

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“Jakarta has committed to achieve a Climate-Resilient City, which means Jakarta does not only **reduce Greenhouse Gas Emission**, but also developing a resilient community and urban system to adapt to the changing environment. Jakarta is consistently taking a lead to sustainable mobility, for urban resilience, and for strong collaborations. By putting these statements, Jakarta opens its door to collaborate and support with various stakeholders and with other cities in climate actions to have a sustainable recovery.” - Anies BASWEDAN

(source: <https://www.time-to-act.metro.tokyo.lg.jp/en/message/index.html>)

(source: Zero Carbon City International Forum)

New Ambitious Targets:

- *The original GHG reduction target 30% in 2030 → 50% in 2030*
- *The original target 50% in 2050 → Net Zero in 2050*

LONG-TERM STRATEGY To ACHIEVE

DKI JAKARTA's LOW CARBON SOCIETY 2050



This Study is Supported by :



National
Institute for
Environmental
Studies, Japan



2030

RAN GRK of Presidential decree No. 61/2011.

Nationally Determined Contribution (NDC)

RAD-GRK of DKI Jakarta No. 131/2012.

DKI Jakarta has already set **30%** emission reduction target in 2030 comparison with BaU level

Draft of RAD-GRK 2020-2030

Draft of the Governor Regulation RAD-GRK DKI Jakarta

2050

Long-term Strategy (LTS)

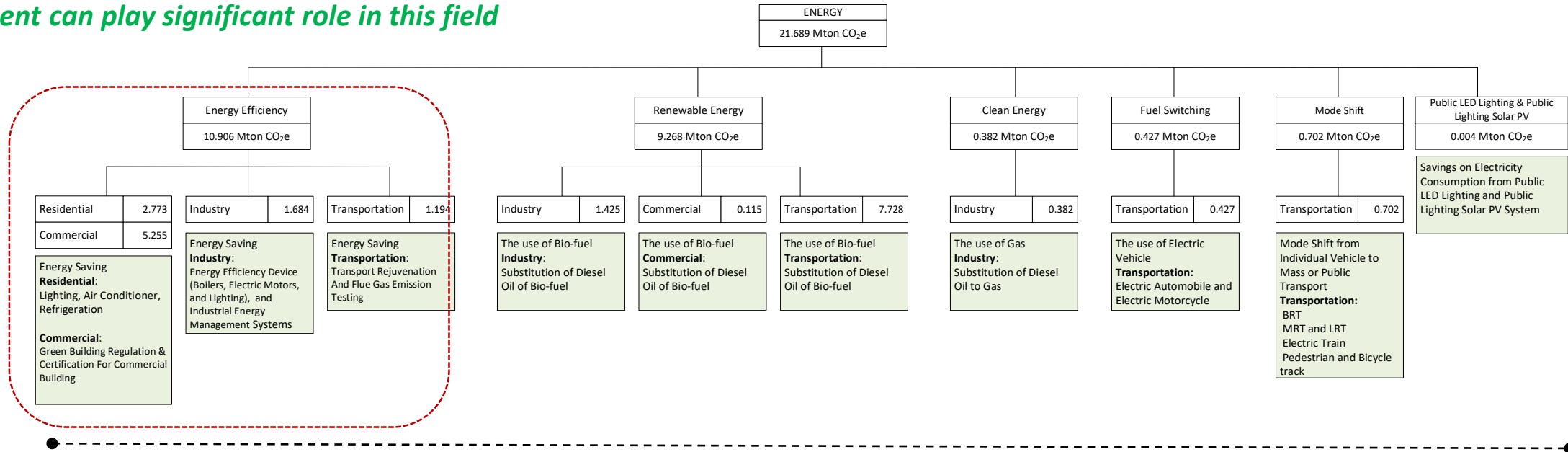
DKI Jakarta is preparing its Provincial Low Carbon Development Strategy (LCDS)

Low Carbon Society (LCS)

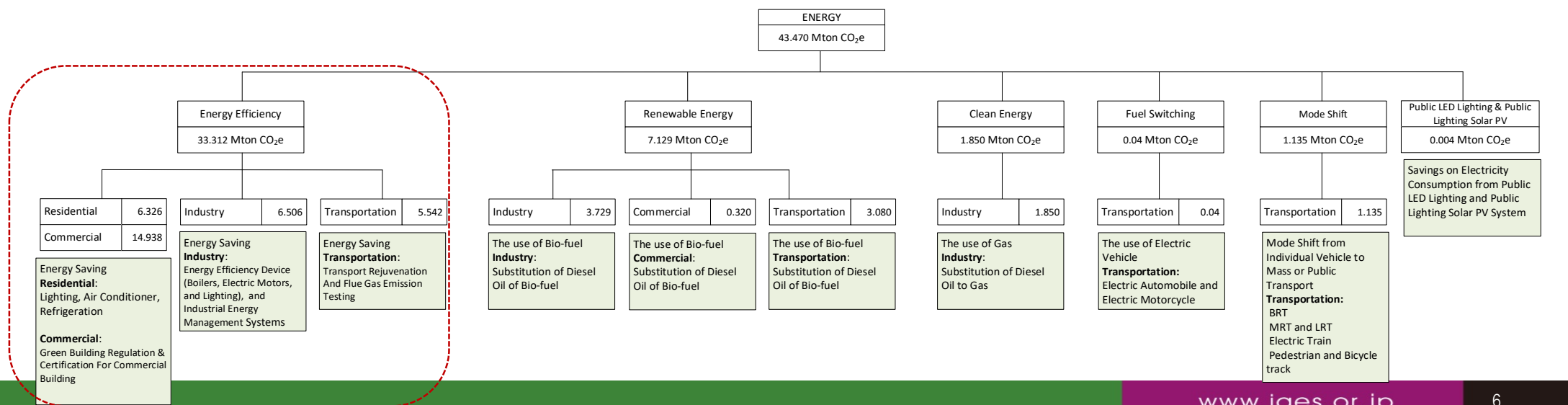
GHG Emissions Reduction Target in Energy Sector

Energy efficiency provides biggest potential for GHG emission reduction and City Government can play significant role in this field

2030

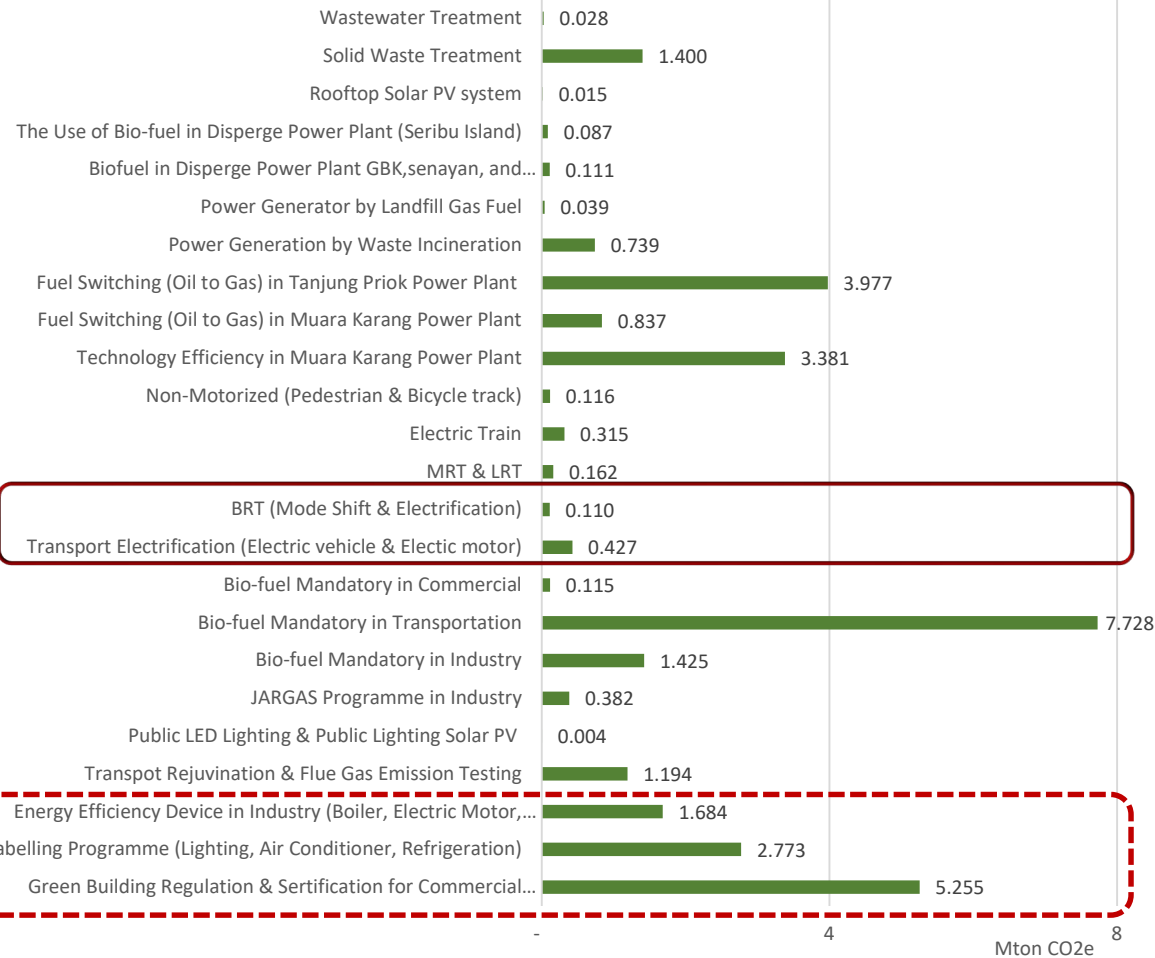


2050

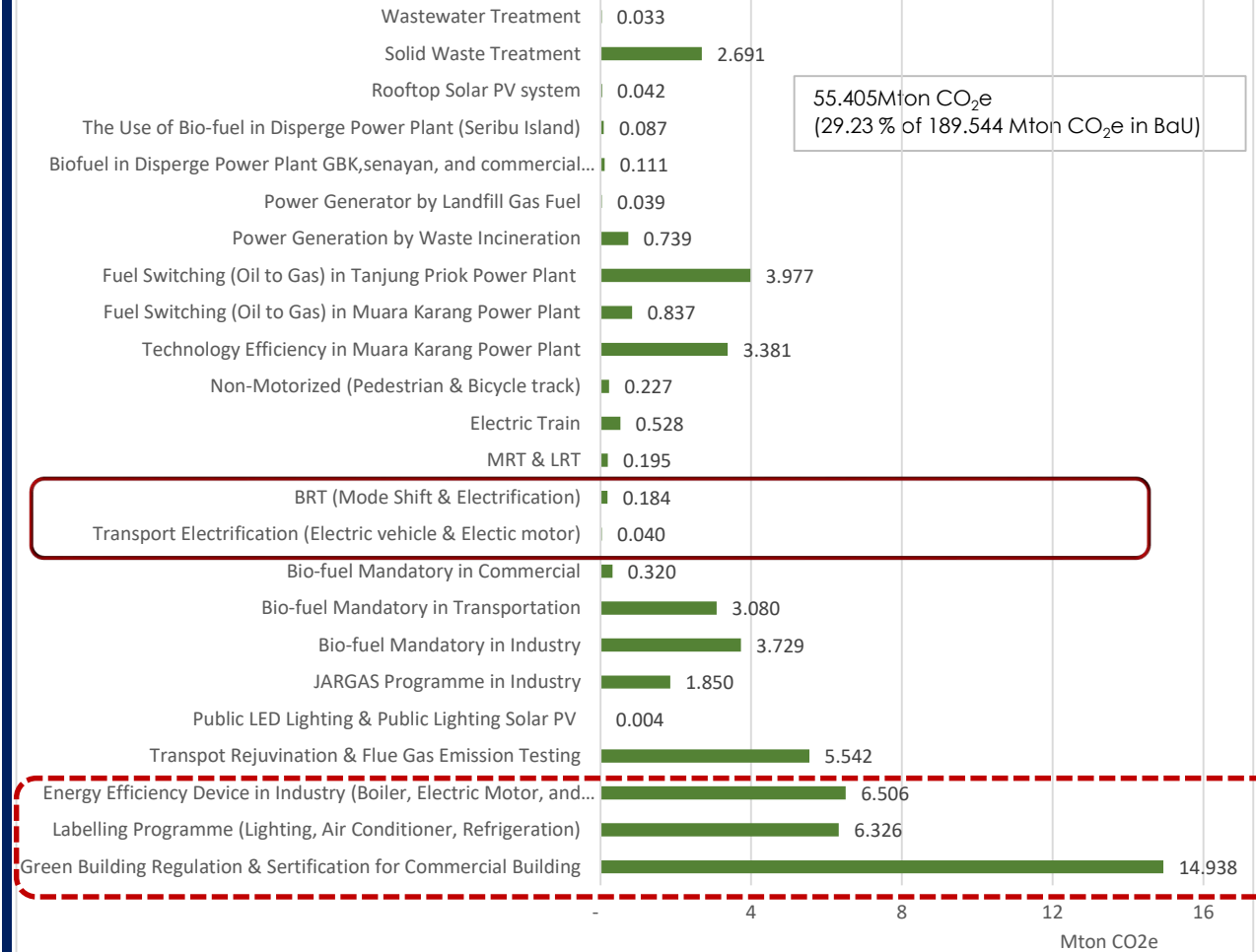


Breakdown of GHGs Emission Reduction Target

2030



2050



Policy Review – 1: Climate Mitigation Action Plans

Review the Governor regulation 131/2012 Climate Mitigation Action Plans

- a. **Change the ‘base year’ or Reference Year** from 2005 to 2010;
- b. **Change the Assumption of economic growth & Population Growth**;
- c. **Updating Data and Information** slightly change the GHG emissions level;
- d. **Change the Methodology** from tier1 IPCC2006 to tier2 IPCC2006 for several sub-sector while the other sub-sectors will still use the tier1;
- e. **Additional regulation & enabling policy** to support the implementation of mitigation action in DKI Jakarta which not yet covered in the governor decree 131/2012,
- f. **Updating Action plans (removing and adding)** which not yet listed in the Governor Decree 131/2012,
- g. **Institutional issue: Reorganization and renaming agency** from BPLHD to DLH.

Synergy and Updating with National Level Policies

- a. **Submission of NDC Indonesia** to UNFCCC and Ratification of *Paris Agreement through Indonesia Act 16/2016*;
- b. **ROAD Map NDC Indonesia**, several NDC Target (State Actor) will be achieved through several mitigation actions which will be implemented in DKI Jakarta (as Non-state actor);
- c. **Revised of Presidential Decree 61/2011 and No. 71/2011**;
- d. In progress of newly decree (Presidential Decree) **on the Atmospheric Function** (in the final stage), several articles in the decree closely related with mitigation actions in Jakarta,
- e. Newly developed **regulation and enabling policy** at national level which will support the implementation of mitigation actions in DKI Jakarta (for example: EV vehicles, Biofuel program, Fuel Switching program, public transport, etc)

Policy Review – 2: Green Building

On September 2016, Jakarta has set up an ambitious target to become a Center of Excellence in Green Building practices.

Vision

To become
Center of Excellence
Green Building in
Indonesia

Mission

In 2030*:

100%

New Construction
comply
Green Building Code

60%

Existing Building
comply energy and
water efficiency

This new Paradigm is called “**Green Building Grand Design**” as a blueprint for Green Building policy implementation until 2030. this has inspired several metropolitan cities such as Bandung, Surabaya, and Semarang.

Source: Jakarta Government & IFC-World Bank

Review the Governor regulation 38/2012 Green Building

- **Simpler** → easy to implement, Minimum Effort & Maximum Impact
- **Lower threshold** → more buildings affected
- **Capacity buildings** → government HQ, City, District, Professional Society
- **Data Collection & Monitoring** → Centralized, SLF

- Previous code has **25** compare to **18** requirements for large/commercial buildings only
- Evaluation Tools and Design Guides are provided
- From 50.000/30.000 to **>20.000 m²** for **large/commercial buildings**, **5000-20.000 m²** (**medium size**) and **>200 m²** (**landed house**)
- **ToT** for local staffs, Professionals Societies
- Gradually collaborating energy and water data collection to existing data collection system owned by Jakarta (i.e. Jakarta Smart City)

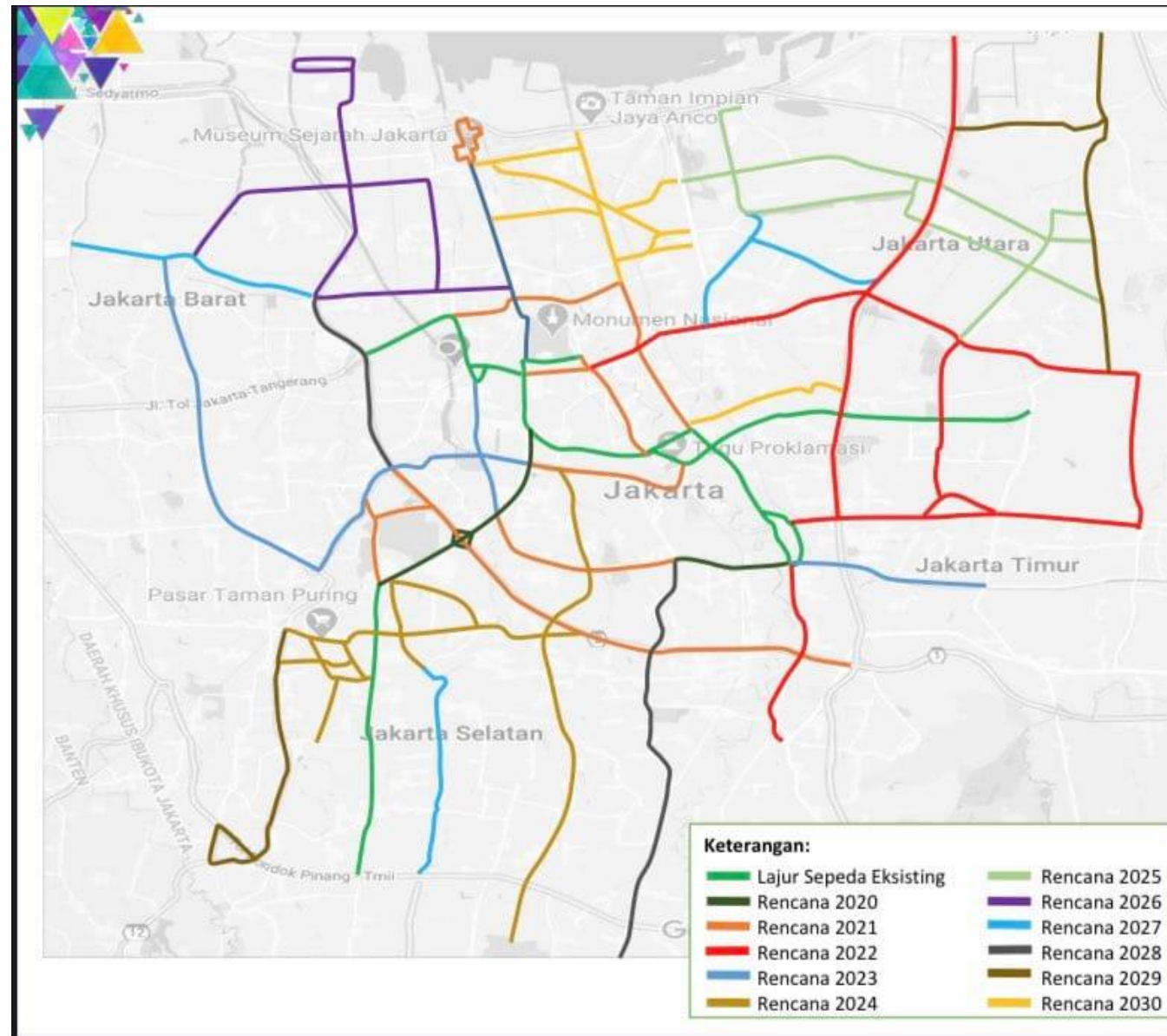
Source: Jakarta Government & IFC-World Bank

Perbedaan Pergub 38/2012 dan Pergub Revisi

Uraian	Pergub 38/2012	Pergub Revisi
Fokus	<ul style="list-style-type: none"> • Bangunan baru • Energi, Air, Lahan & limbah 	<ul style="list-style-type: none"> • Bangunan baru • Energi & Air
Lingkup pengaturan	Perencanaan, Konstruksi dan Bangunan Eksisting	Perencanaan dan Bangunan Eksisting (Pelaporan Energi dan Air)
Persyaratan teknis	25 Persyaratan Teknis	18 Persyaratan Teknis
Objek Bangunan	Bangunan besar: <ol style="list-style-type: none"> Perkantoran, Mall, Apartemen dan mixed use > 50.000 m² Rumah Sakit, Hotel > 20.000 m² Sekolah > 10.000 m² 	<ol style="list-style-type: none"> <u>Bangunan besar $\geq 20.000 \text{ m}^2$</u> Perkantoran, Mall, Apartemen dan mixed use Rumah Sakit, Hotel dan Sekolah <u>Bangunan Sedang $5000 < x < 20.000 \text{ m}^2$</u> Perkantoran, Mall, Apartemen dan mixed use Rumah Sakit, Hotel dan Sekolah <u>Rumah Tinggal Tunggal $\geq 200 \text{ m}^2$</u>
Cakupan Implementasi	DPMPTSP – Tingkat Provisi	DPMPTSP - Tingkat Provinsi (Bangunan Besar) - Tingkat Kota (Bangunan Sedang) - Tingkat Kecamatan (Rumah tinggal tunggal)

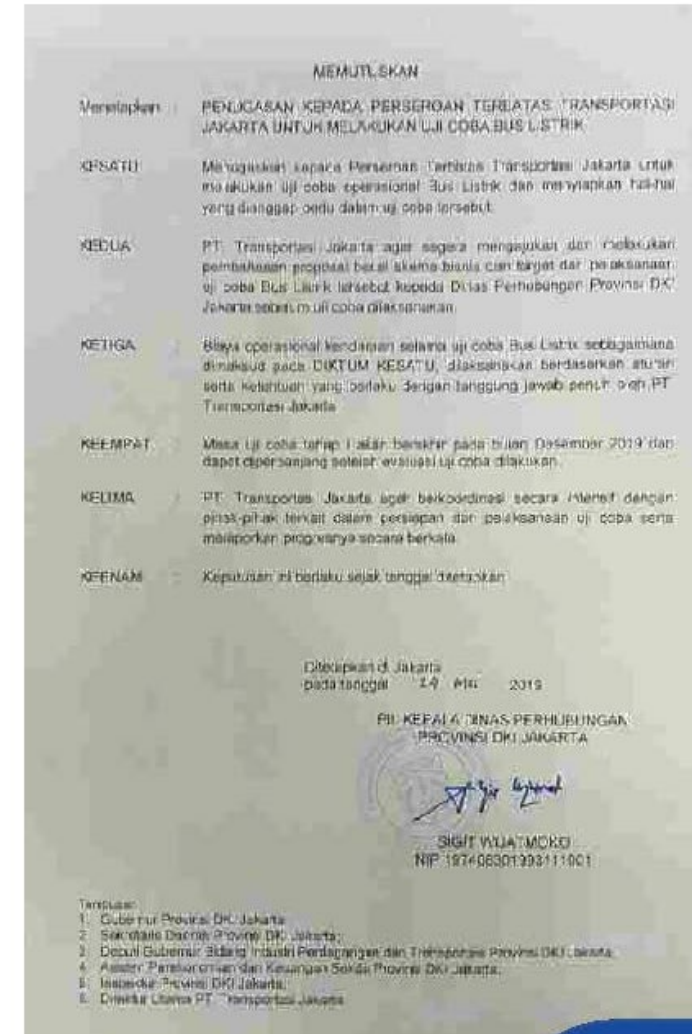
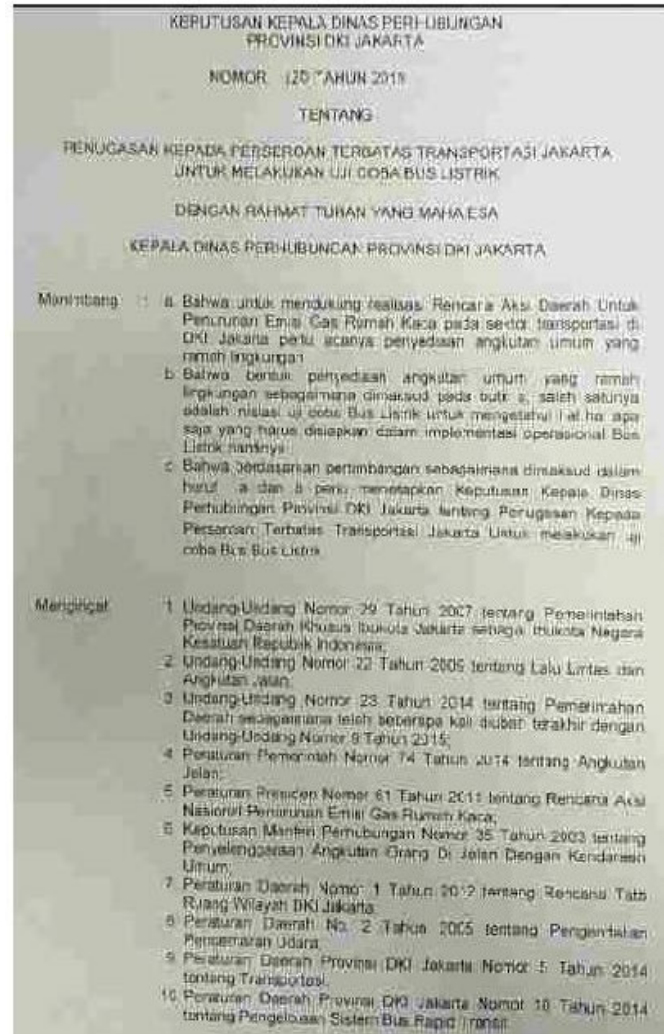
Source: Jakarta Government & IFC-World Bank

Progress of Implementation : Green Infrastructure – Bicycle Lane



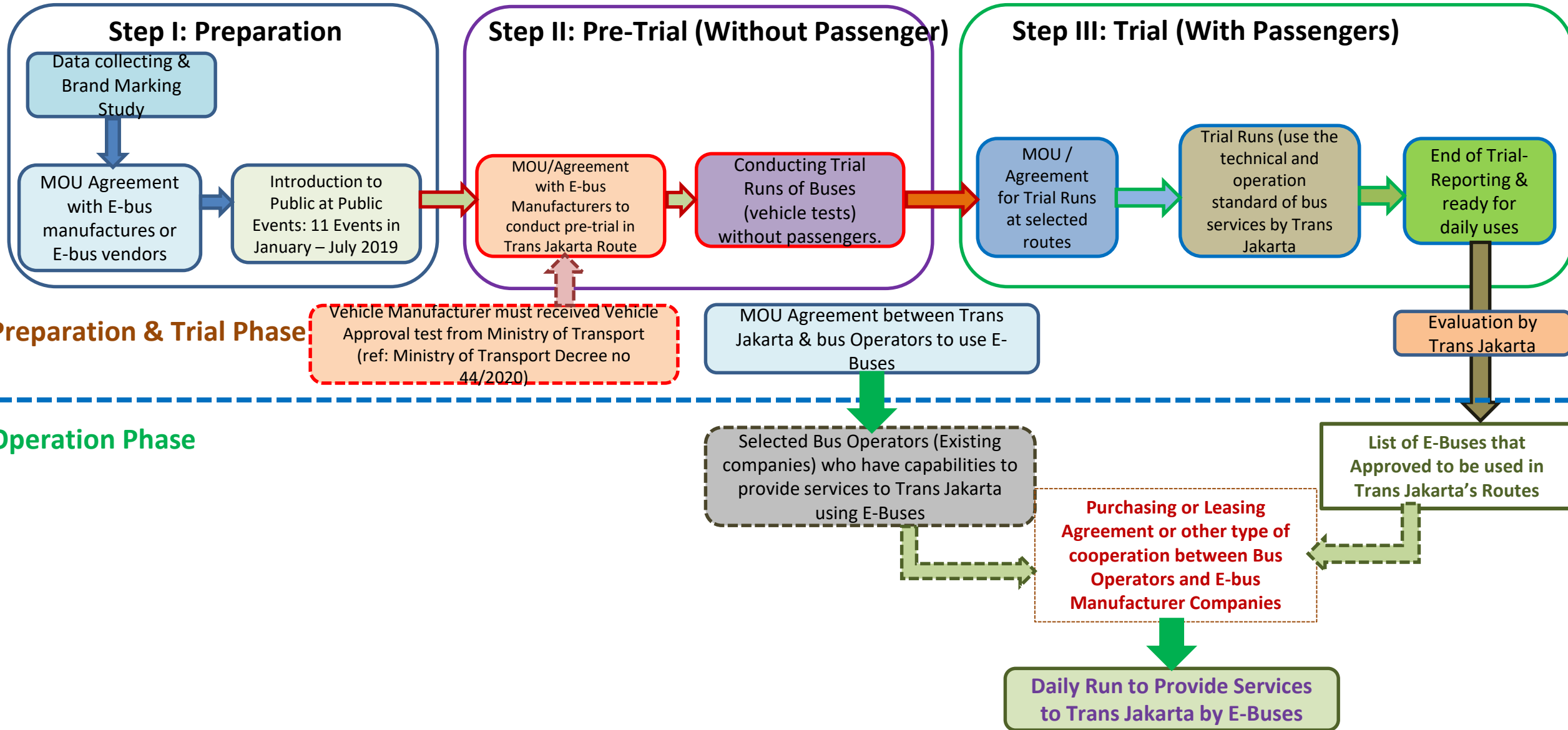
Progress of Implementation : Electrification of Public Buses

The Transportation Agency of Jakarta Decree no 120/2019 about assignment for Trans Jakarta to conduct Trial Run of EV Buses in Jakarta



(Ref: <https://balitbanghub.dephub.go.id/file/173>)

Flow of Trial Test of EV Buses in Jakarta



(Ref: <https://balitbanghub.dephub.go.id/file/173>)

Data Collection and Brand Marking Study by Trans Jakarta in 2019 (Ref: <https://balitbanghub.dephub.go.id/file/173>)

No	E-bus providers/companies	Type of Buses			Document and Progress			Target of Pre-trial E-Bus	Remarks
		Micro	Medium	Single	Brochure	Schedule	MOU		
1	BYD (China)	1	1	1	√	√	√	October 1 st , 2019	Finished Trial in Oct, 2020
2	ITB	-	2	-	√	√	√	16 Dec, 2019	
3	PT Mobil Anak Bangsa (MAB)	-	-	1	√	√	√	Don't join trial	Don't join the trail phase
4	RAC-Danfoss (China)	-	-	1	√	√	√	01 February 2020	
5	Mitsui – Caetano Bus (Japan)	-	-	1	√	-	-	01 Nov, 2019	Preparing MOU
6	Volvo	-	-	1	√	-	-	-	-
7	GAZ	-	-	1	√	-	-	-	-
8	SCANIA	-	-	1	√	-	-	-	-
9	SKYWELL (China)	1	1	1	√	-	-	Dec, 2020	Start trial in December 2020 –
10	MITSUBISHI (Japan)	-	-	1	√	-	-	-	-
11	KINGLONG (China)	-	1	1	√	-	-	January 2021	HIGER bus, trial in January 2021
12	University of Indonesia	-	-	1	√	-	-	-	-
13	HINO (Japan)	-	-	1	√	-	-	-	-
14	Winnerway	-	1	1	√	-	-	15 July, 2019	-
15	Institute of Technology Surabaya (ITS)	-	-	1	√	-	-	-	-
16	Mercedes Benz	-	-	-	√	-	-	-	-
17	Toyota (Japan)	-	-	-	√	-	-	-	-
18	ZHONGTONG (China)	-	1	1	√	-	-	2020	-
19	ZTE (China)	1	1	1	√	-	-	2020	-

MOU with the existing Bus Companies (Service providers to trans Jakarta)

No	Service providers/companies	Signed MOU	Status
1	Perum PPD	25 April 2019	OK
2	PT Biro Perjalanan Wisata Pahala Kencana	25 April 2019	OK
3	PT STEADY SAFE	25 April 2019	OK
4	PERUM DAMRI	25 April 2019	OK
5	PT Mayasari Bakti	-	On Progress
6	KOPAJA	25 April 2019	OK

(Ref: <https://balitbanghub.dephub.go.id/file/173>)

Supporting Policies for EV Infrastructures

- Ministry of Energy and Mineral Resource (MEMR) **Decree no 13/2020** (signed on August 2020) about **“Provision of Electricity Charging Infrastructure for Battery-based Electric Motor vehicles”**
- Aims of Policy: To accelerate the battery-based electric motor vehicle program, it is necessary to build an electricity charging infrastructure for battery-based electric motor vehicles
- This policy/regulation governs several matters as follows:
 - General provisions
 - Charging facilities, including: private electric installations, public electric vehicle charging stations
 - battery exchange facility
 - Assignment for PT PLN
 - Electricity tariff of electricity charging for battery-based electric motor vehicles
 - Safety related to electricity
 - Guidance and supervision
 - Administrative sanctions
 - Transitional Provisions
 - Closing Provisions

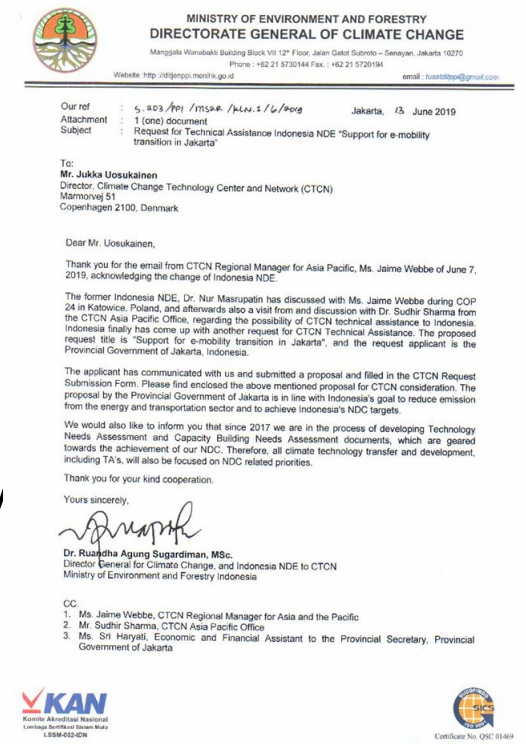
Technical Assistant and Cooperation with other Countries to support E-Mobility

UNEP CTCN

- Supporting Jakarta's transition to e-mobility (Request was sent over to UNEP by the Ministry of Environment and Forestry Indonesia)
- Technical Assistance will (a) review and identify policy requirements and actions required by Governor of Jakarta and Government of Indonesia to facilitate the e-buses and related infrastructure; (b) Prepare an investment plan, business model and procurement document for e-buses and other electric vehicles for government use; (c) assess the feasibility of charging solutions using renewable energy-based electricity
- Period: The technical assistant will finish in May 2021

C40 Cities Finance Facility in Collaboration with GIZ (<https://www.c40cff.org/projects/jakarta-electric-bus>)

- To determine the best way of deploying 100 e-buses in Jakarta (technology, charging infrastructure, business case, co-benefit etc)
- Expected output: procurement specs and documents for 100 e-buses
- Capacity building for Trans Jakarta and Provincial Government
- Will be finished by 2021



Future Direction/Way Forward in 2021 onwards

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(source: <https://www.time-to-act.metro.tokyo.lg.jp/en/message/index.html>)

Technical Assistant and Cooperation with Tokyo Metropolitan Government (TMG) on Green Building:

- *Learning the experiences on Retrofitting Existing Building Program*
- *Cap & Trade System in Tokyo*
- *Zero Emission building program in Tokyo*

Thankyou very much for your attention!



Please visit: www.iges.or.jp