



Enhancing Readiness for the Transition to Electric Vehicles in Indonesia (ENTREV)

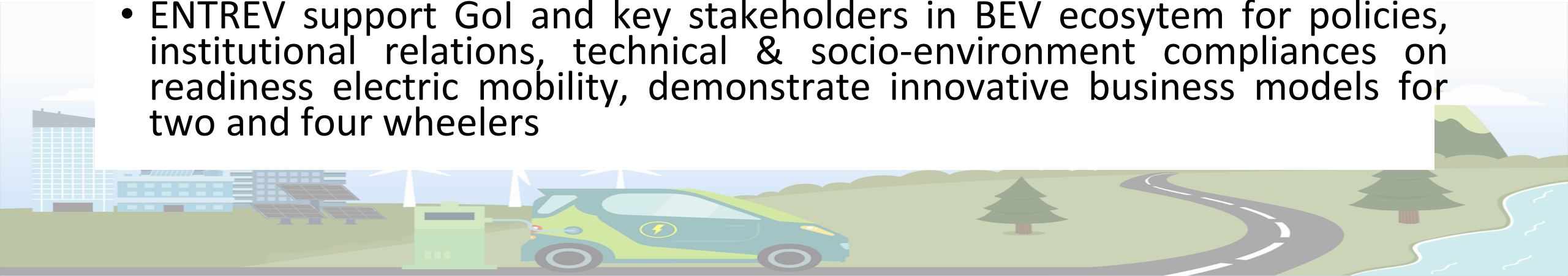
Sosialisasi Tarif dan Biaya Layanan Untuk Percepatan Pengembangan Charging Station
Direktorat Jenderal Ketenagalistikan – ESDM

Jakarta, 31 Juli 2023



ENTREV Project Background

- Significant increase in fossil fuel-powered land transportation total 150 million motorcycle & cars (2022)
- Transportation is 2nd highest contributor to GHG in Energy Sector
- PERPRES number 55/2019: Acceleration of BEV (KBLBB) as part of an overall transition from fossil fuel-based transport sector to a cleaner one.
- EV ecosystem in Indonesia is in the infant stage, need to be strengthened.
- EV ecosystem those are : policies, charging infrastructure, transport operators, EV Technology providers and end-users.
- ENTREV support GoI and key stakeholders in BEV ecosystem for policies, institutional relations, technical & socio-environment compliances on readiness electric mobility, demonstrate innovative business models for two and four wheelers



ENTREV Project Objective

To support the Government of Indonesia and key stakeholders in policy, institutional & technical readiness to transition towards electric mobility and to demonstrate innovative business models in the transport sector that will lead to GHGs emissions reduction:

- 1) Direct GHG emissions avoided as a result of the project-facilitated increase in the use of BEVs and indirect emission (of total **473.8 tCO₂**)
- 2) Increase Volume of investment mobilized and leveraged by GEF for low GHG development (of **USD 13.4 million**)
- 3) Reach Number of direct project beneficiaries disaggregated by gender (**87.851 women** from total **321.612 peoples**)





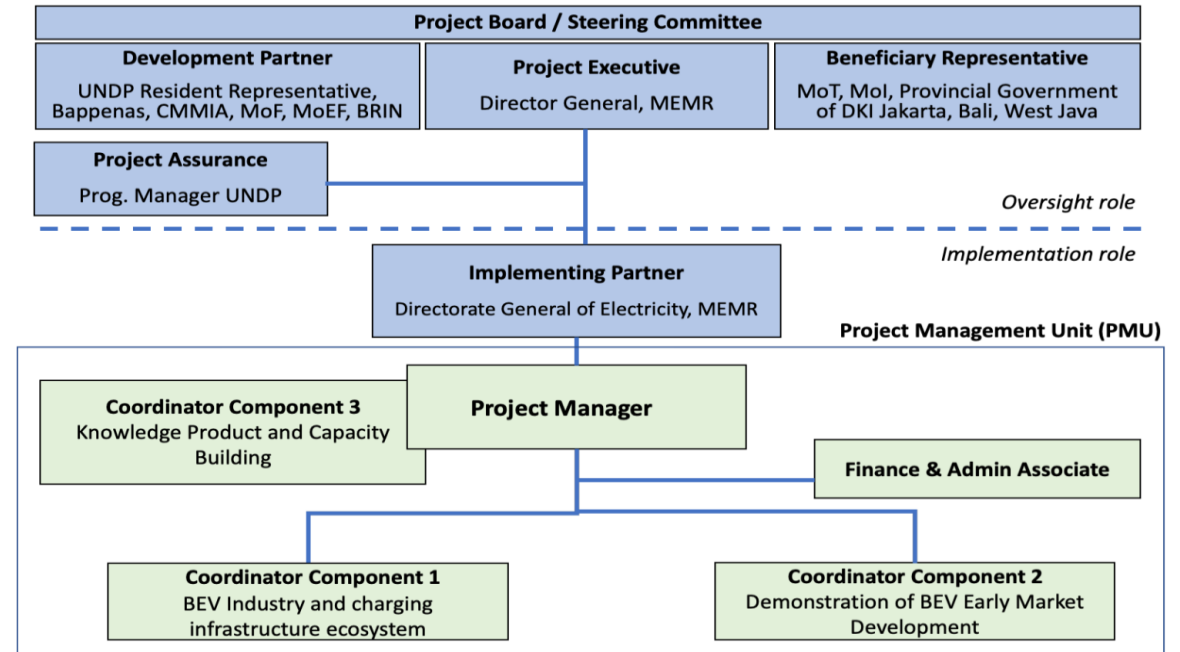
Four Year Project (2023-2027). GEF Trust Fund : USD 1,816,500
Co Financing: USD 31,423,747

By the end of four years, the ENTREV project is expected to result in a lifetime direct GHG emission reduction of 473,800 tCO2 from the demonstration activities and the numbers of utilized BEVs, and indirect emission reduction of 6.1 million tCO2 ends, from continued utilization and by increasing number of BEVs in 10 years after the project ends)

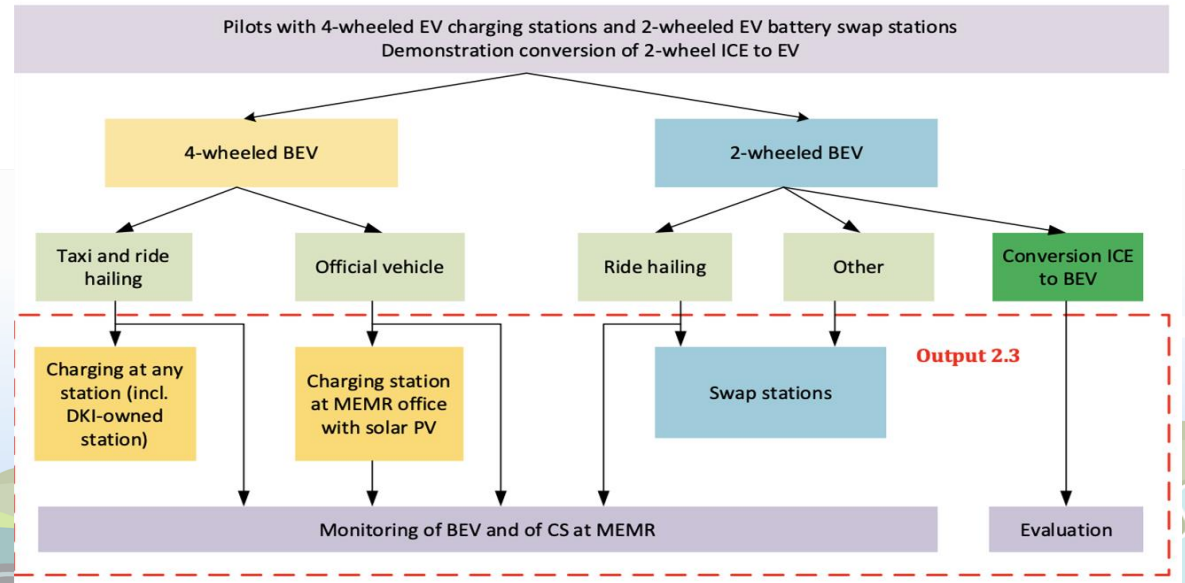
Link of ENTREV support areas

Type of vehicle	Key support from ENTREV
2-wheel electric vehicles a. Battery-based electric vehicles (BEV motorbike) b. Conversion from ICE to BEV motorbike	Ecosystem development towards market driven, market penetration: 1. Charging station business & battery swap 2. Manufacturing of EV and EV components 3. Demonstration in selected areas 4. Knowledge & technical capacity building.
4-wheel vehicles: Battery-based electric vehicles (BEV cars)	

Project Governance Arrangement ENTREV Project

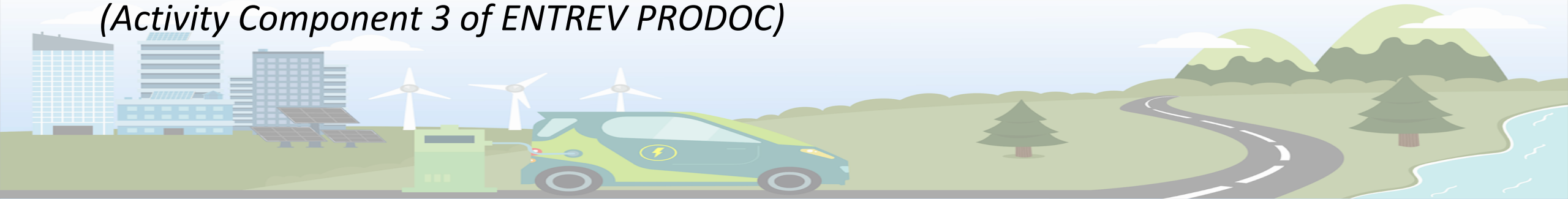


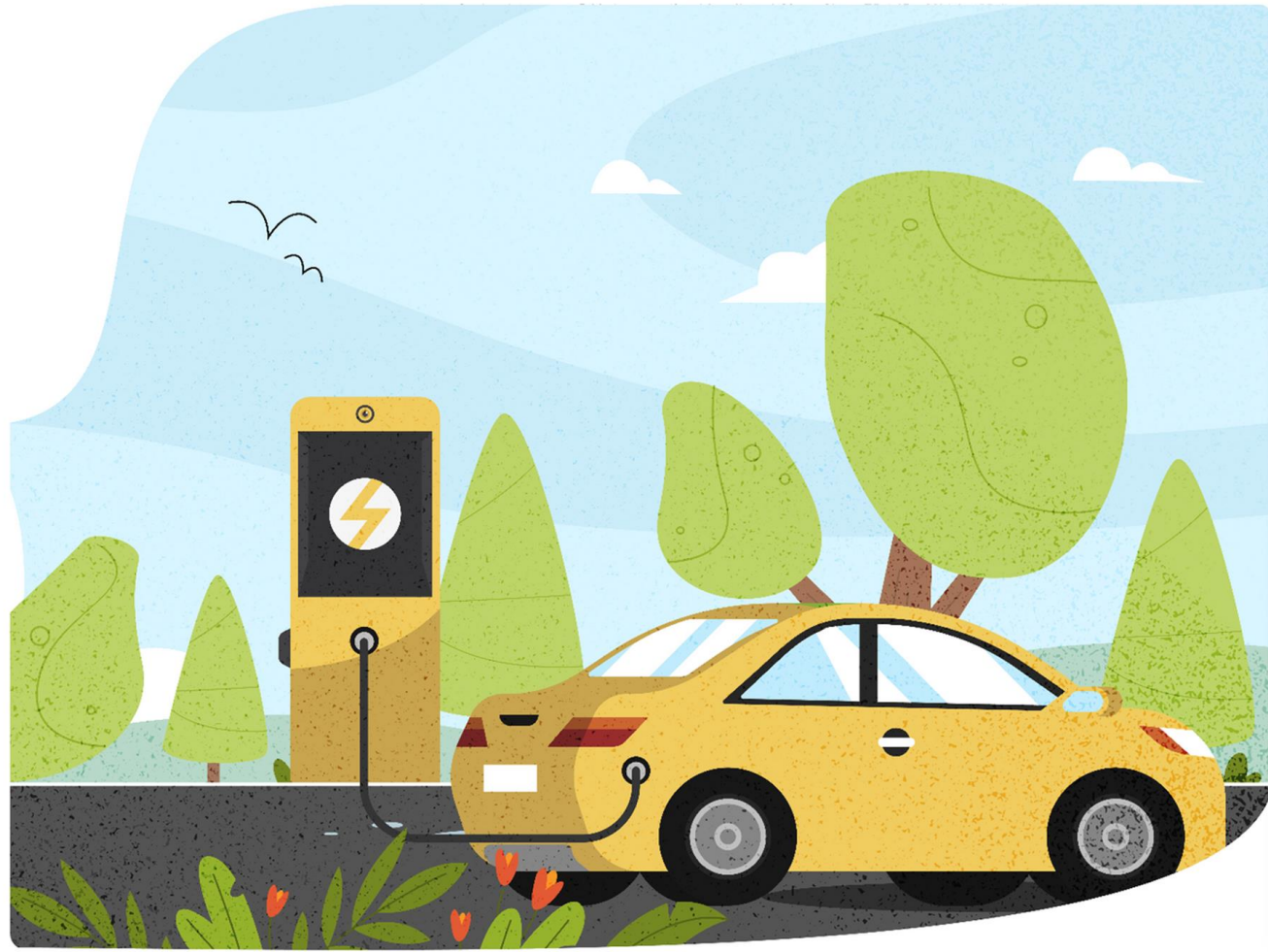
Overview of pilot and monitoring activities supported by ENTREV



ENTREV 2023 Support on EV Ecosystem

- 1) Participate on DJK Focus Discussion Lead on Charging Station Tariff for Permen ESDM No.1 Th. 2023 & Kepmen ESDM 182.K/TL.04/MEM.S/2023 - (*Activity Component 1 of ENTREV PRODOC*)
- 2) Single Gateway for Monitoring & Evaluation BEV (Permen ESDM No.1 Th. 2023) - (*Activity Component 1 of ENTREV PRODOC*)
- 3) Pilot Project of EV Infrastructure & Policy of Bali, DKI Jakarta and West of Java - (*Activity Component 2 of ENTREV PRODOC*)
- 4) Two-Wheeler Conversion from ICE to BEV at EBTKE (Permen ESDM No.3 Th. 2023) - (*Activity Component 3 of ENTREV PRODOC*)



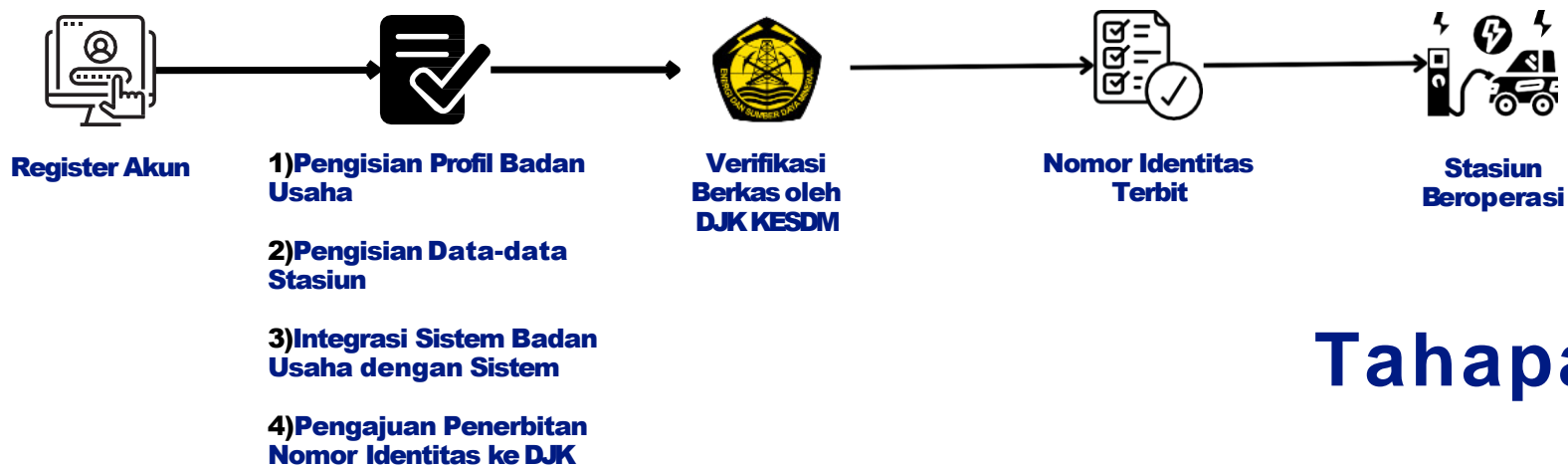


Tentang Aplikasi Single Gateway

(Sistem Informasi Pengawasan
SPKLU dan SPBKLU di Indonesia)



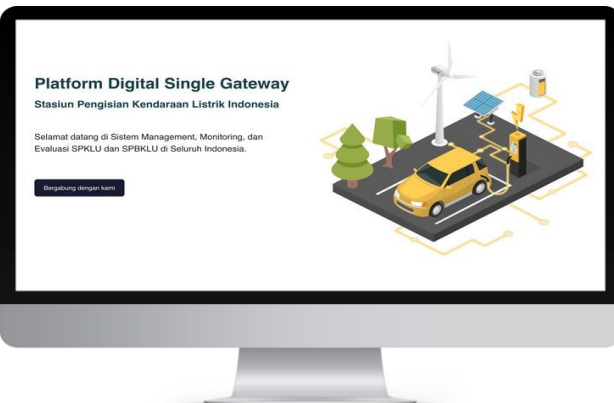
Tahapan Pengajuan NOMOR IDENTITAS BADAN USAHA



Tahapan Monitoring dan Pelaporan

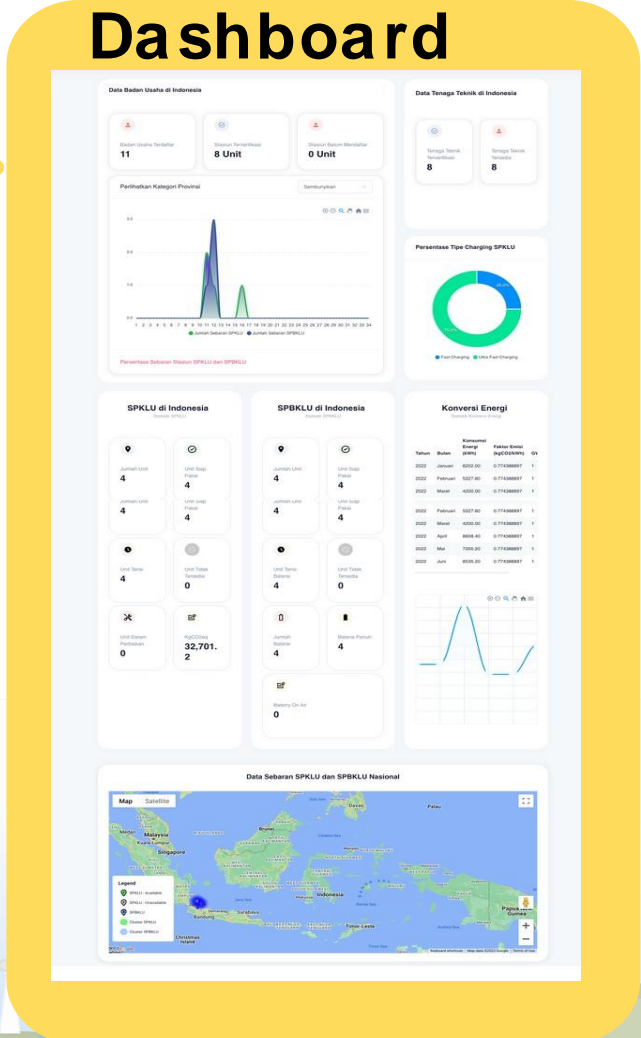


- Badan Usaha bisa melaporkan secara bertahap (per bulan) tentang Laporan Operasional Pelaksanaan Stasiun
- Laporan Tahunan akan otomatis tergenerate sesuai dengan Permen ESDM No. 1 Tahun 2023

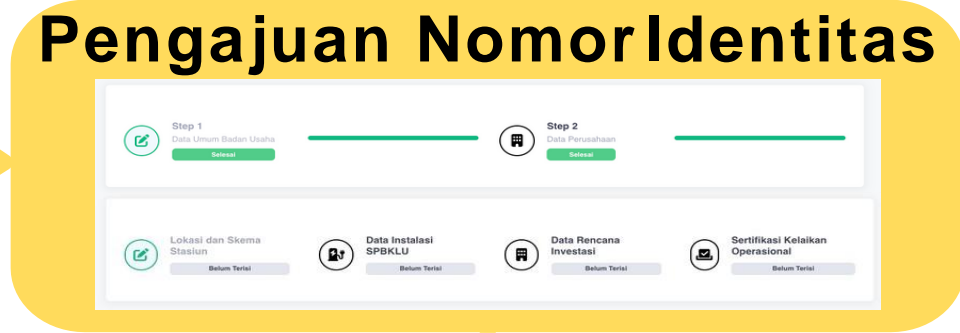


Bergabung dengan kami

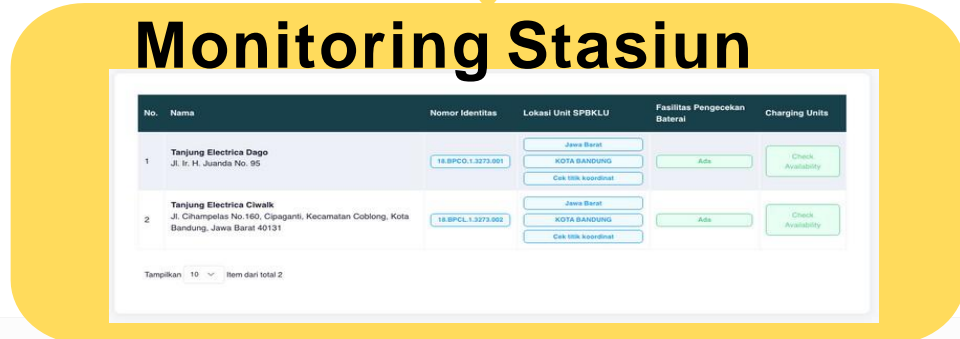
Dashboard



Pengajuan Nomor Identitas

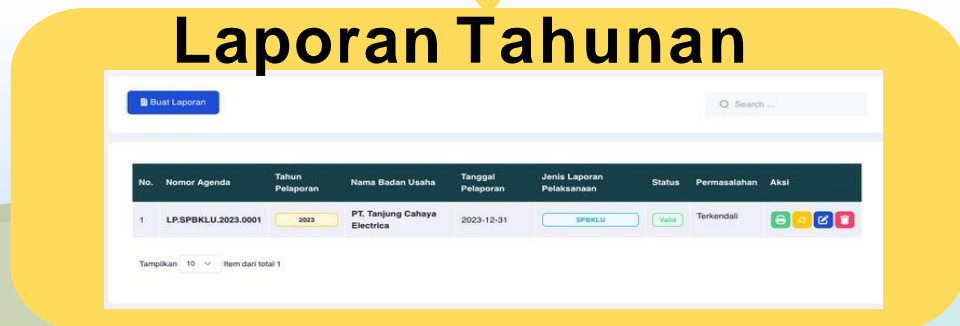


Monitoring Stasiun

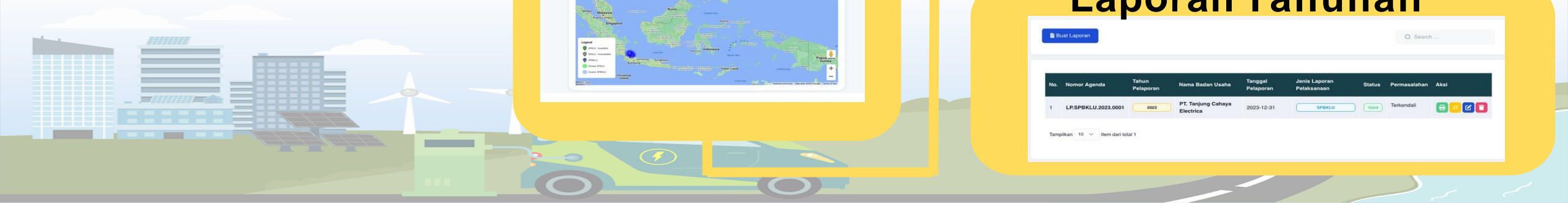


No.	Nama	Nomor Identitas	Lokasi Unit SPBKLU	Fasilitas Pengecekan Baterai	Charging Units
1	Tanjung Electrica Dago Jl. Ir. H. Juanda No. 95	18.SPCL.1.3273.001	Jawa Barat KOTA BANDUNG Cek titik koordinat	Ada	Check Availability
2	Tanjung Electrica Cisarik Jl. Champelas No.160, Cipiganti, Kecamatan Cobleng, Kota Bandung, Jawa Barat 40131	18.SPCL.1.3273.002	Jawa Barat KOTA BANDUNG Cek titik koordinat	Ada	Check Availability

Laporan Tahunan



No.	Nomor Agenda	Tahun Pelaporan	Nama Badan Usaha	Tanggal Pelaporan	Jenis Laporan Pelaksanaan	Status	Permasalahan	Aksi
1	LP.SPBKLU.2023.0001	2023	PT. Tanjung Cahaya Electrica	2023-12-31	SPBKLU	Valid	Terkendali	



Stasiun yang legal dan teridentifikasi

Peta Sebaran Stasiun Kendaraan Listrik di Indonesia



1. Automatic Codification
2. Station Monitoring and Management Geolocation
3. Map for Station Integration API
4. Automatic Report Generator

Simulasi ICE VS EV

Stasiun Pengisian Kendaraan Listrik Indonesia

Simulasi Konsumsi Energi Kendaraan ICE vs Kendaraan EV

Kendaraan ICE

Konsumsi BBM
10 km/liter

Harga BBM
IDR 14,000 Rp/liter

Jarak tempuh per hari
41 km

Kendaraan EV

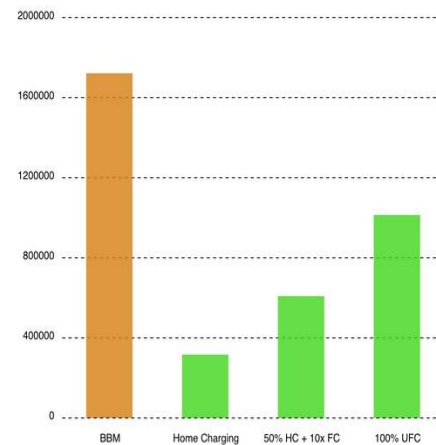
Konsumsi Energi
6,6 km/kWh

Tarif Home Charging
IDR 1,699.53 Rp/kWh

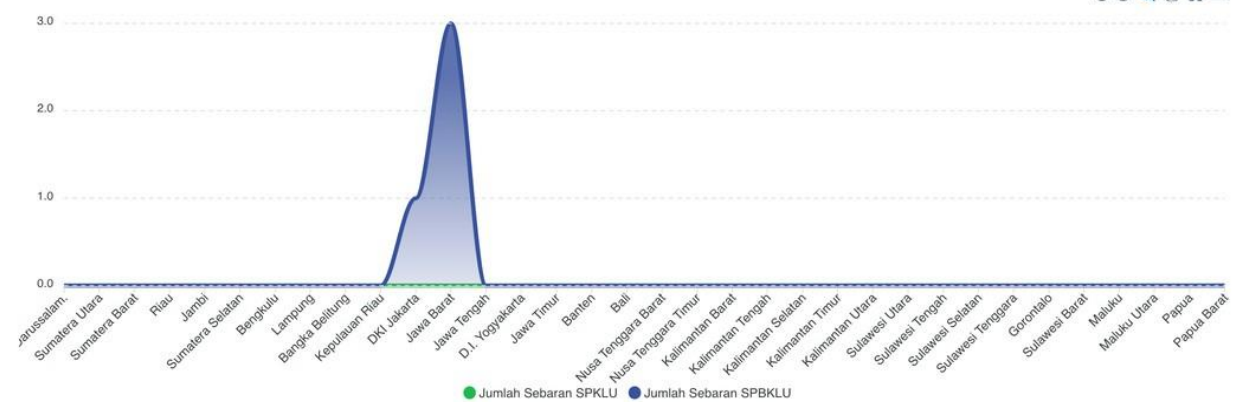
Tarif SPKLU
IDR 2,475 Rp/kWh

Biaya Layanan Fast Charging
IDR 21,974 Rp/pengisian

Biaya Layanan UFC
IDR 62,500 Rp/pengisian



Persentase Sebaran Stasiun di Berbagai Provinsi di Indonesia



Thank you

