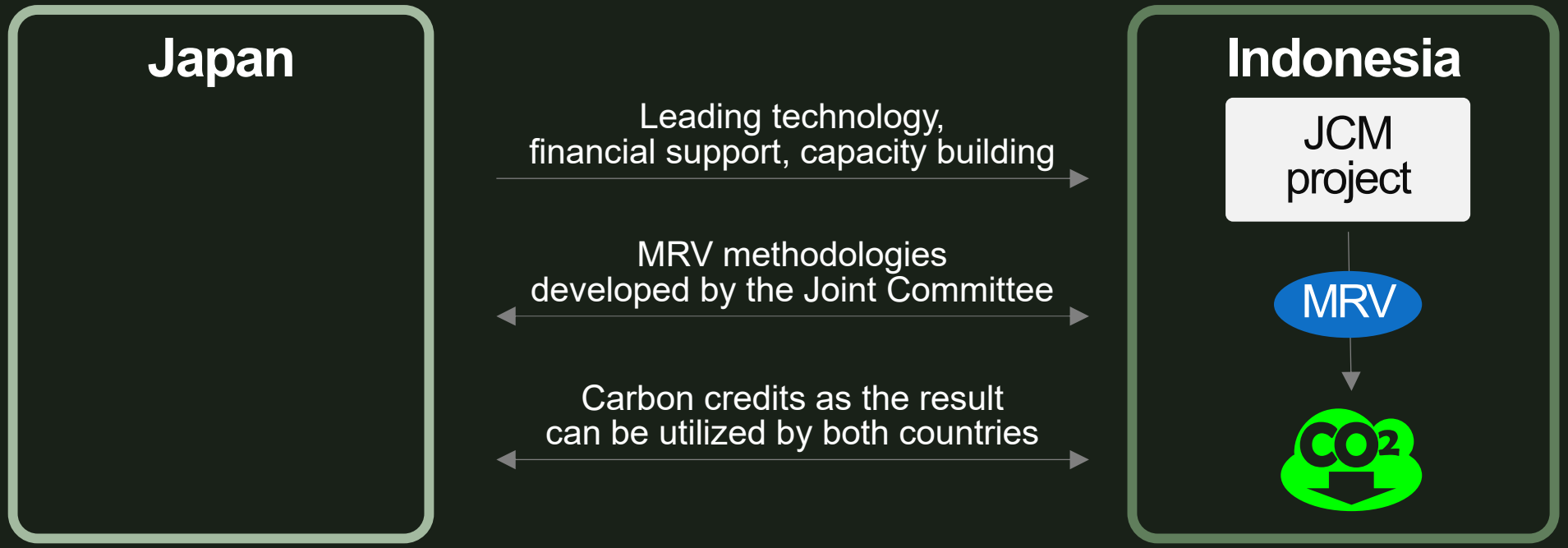
Joint Creding Mechanism Recent Updates in Indonesia

Jakarta, 2 September 2021

Coordinating Ministry
for Economic Affairs
Republic of Indonesia

JCM
JOINT CREDITING MECHANISM
INDONESIA SECRETARIAT

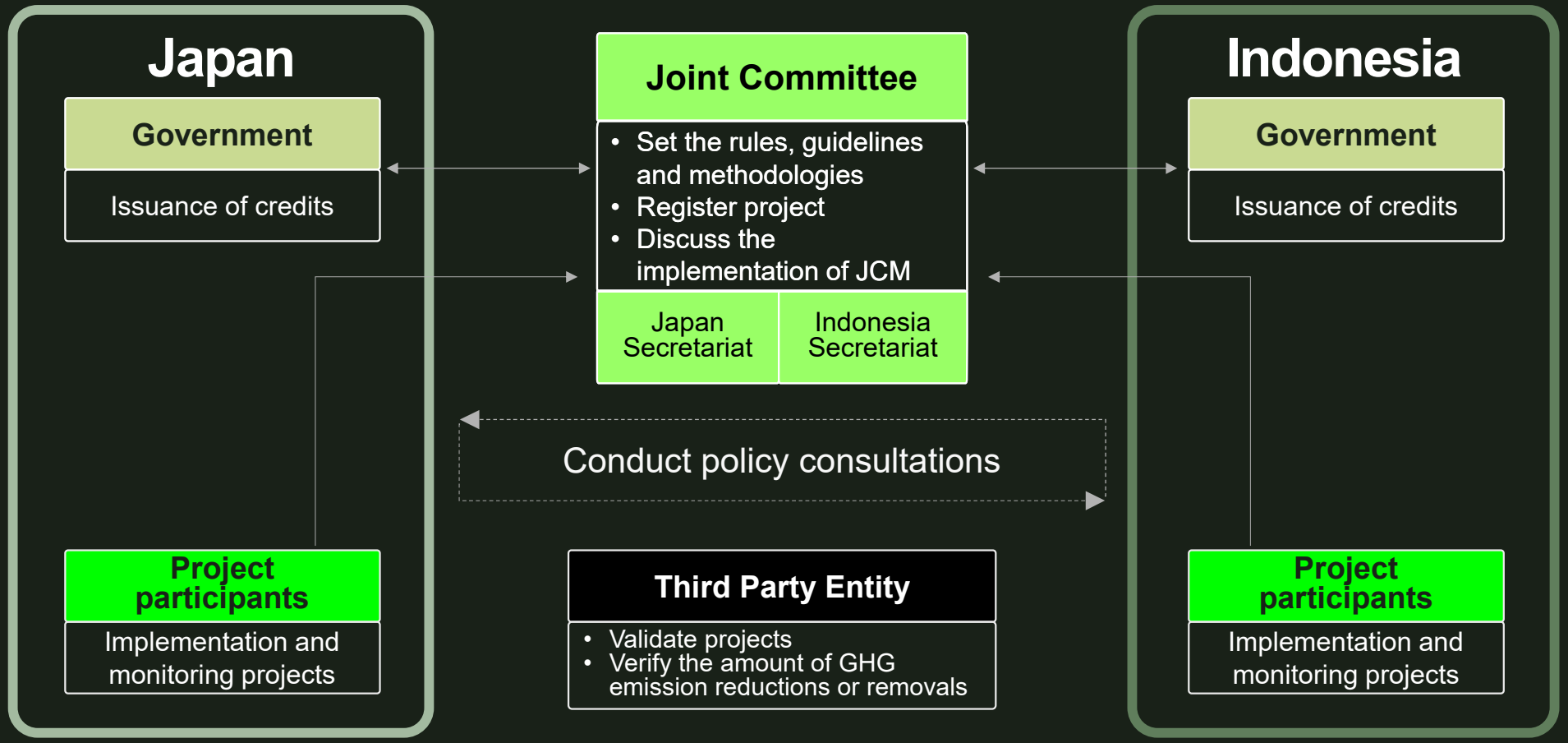
Basic concept



Key objectives of JCM implementation:

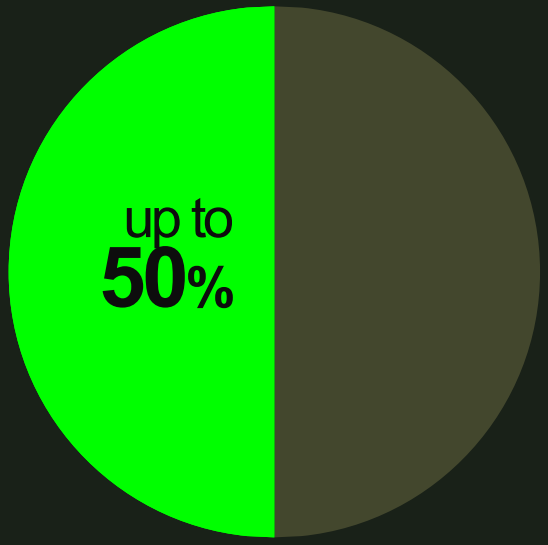
1. Facilitate diffusion of leading low carbon technologies, products, systems, services, and infrastructure
2. Implementation of mitigation actions
3. Contributing to sustainable development in developing countries.

Structure of cooperation



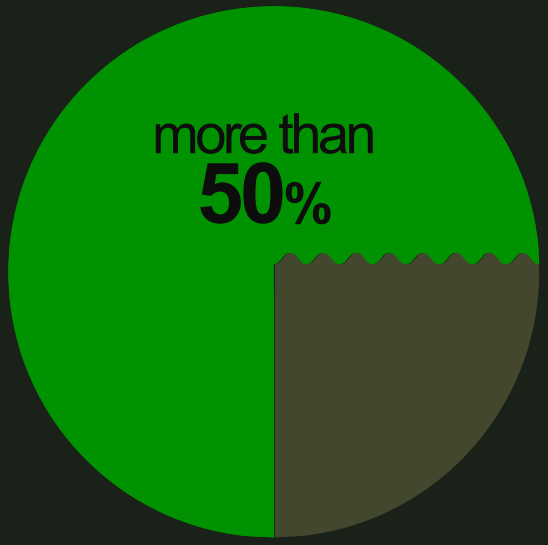
Financial supports

Model project



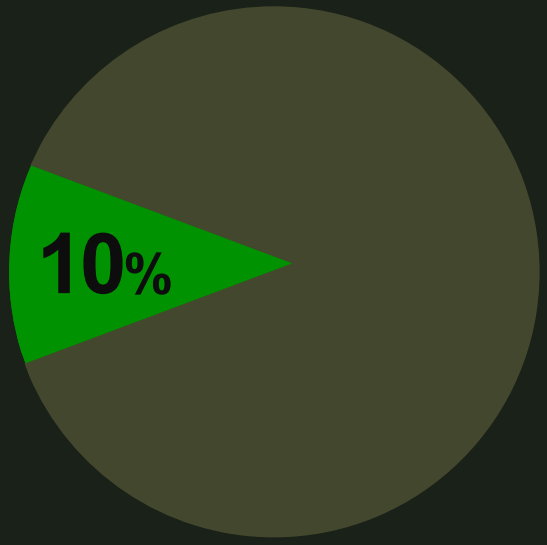
- Supported by MOEJ
- 41 projects

Demonstration project



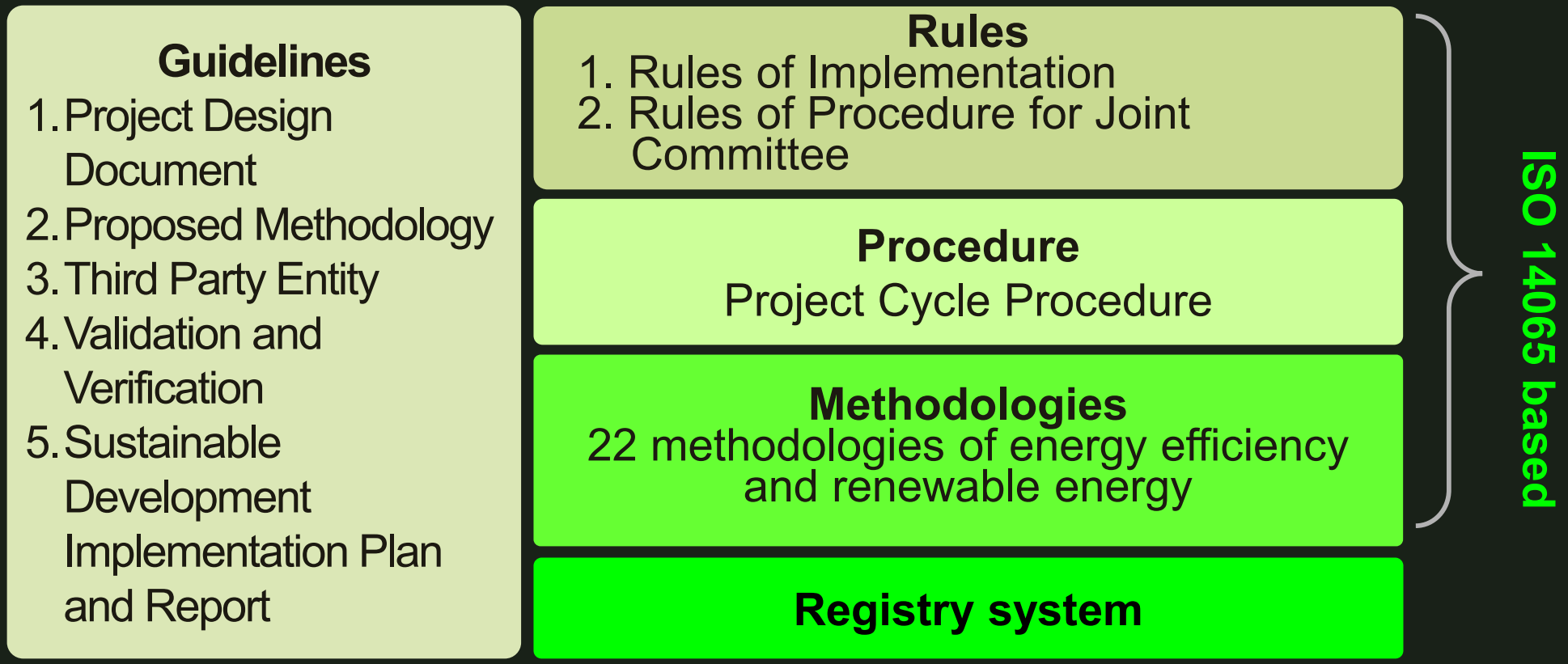
- Supported by METI/NEDO
- 3 projects
- Implement new technology

Japan Fund for JCM

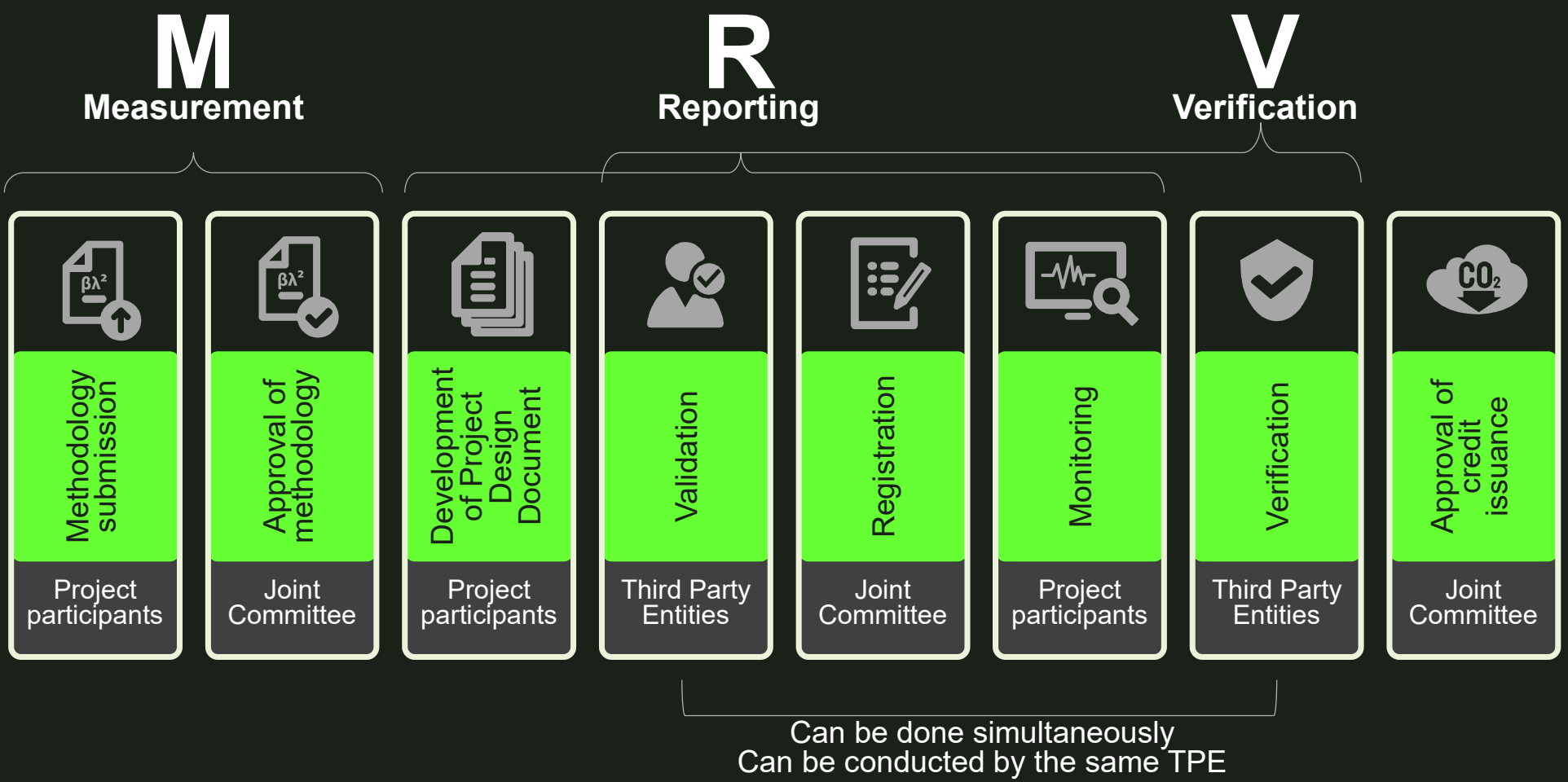


- Managed by ADB
- Sovereign: grant for incremental cost
- Non-sovereign: interest subsidy for ADB's loan

Infrasructure



Project cycles



Recent updates

28 Methodologies

21 In the pipeline

23 Registered

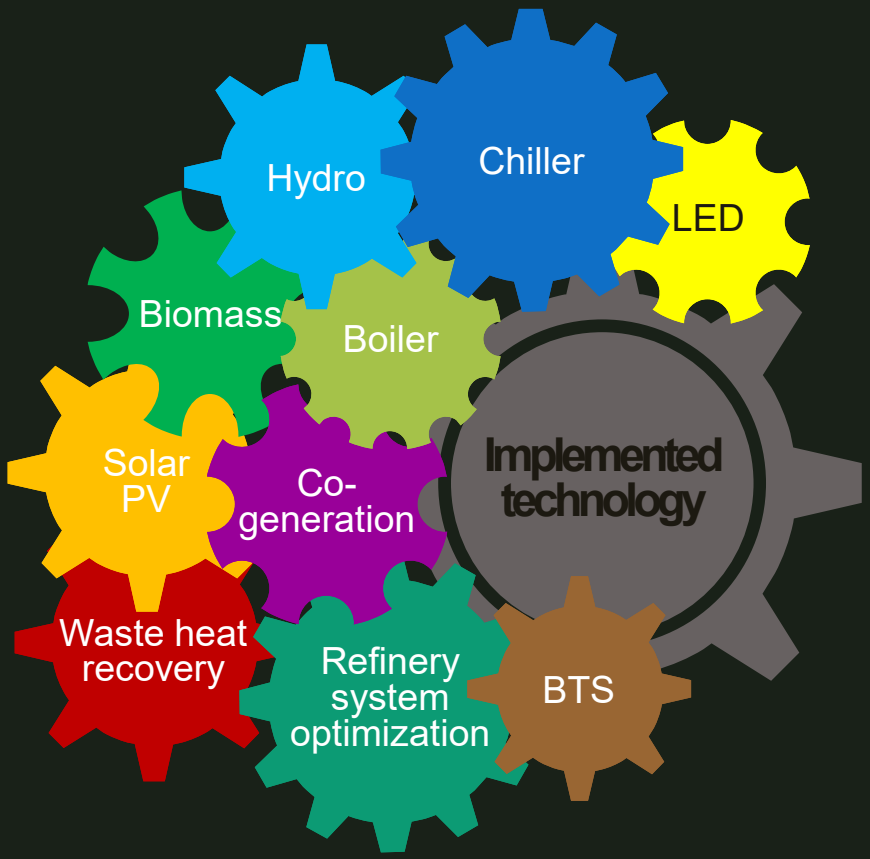
120 Feasibility studies

44 Projects

12 Issued carbon credits

Sectors

Automotive, building, cement, chemical, food, oil and gas, paper, plastic, power generation, retail, rubber, telecommunication, textile, transportation



City to city cooperations

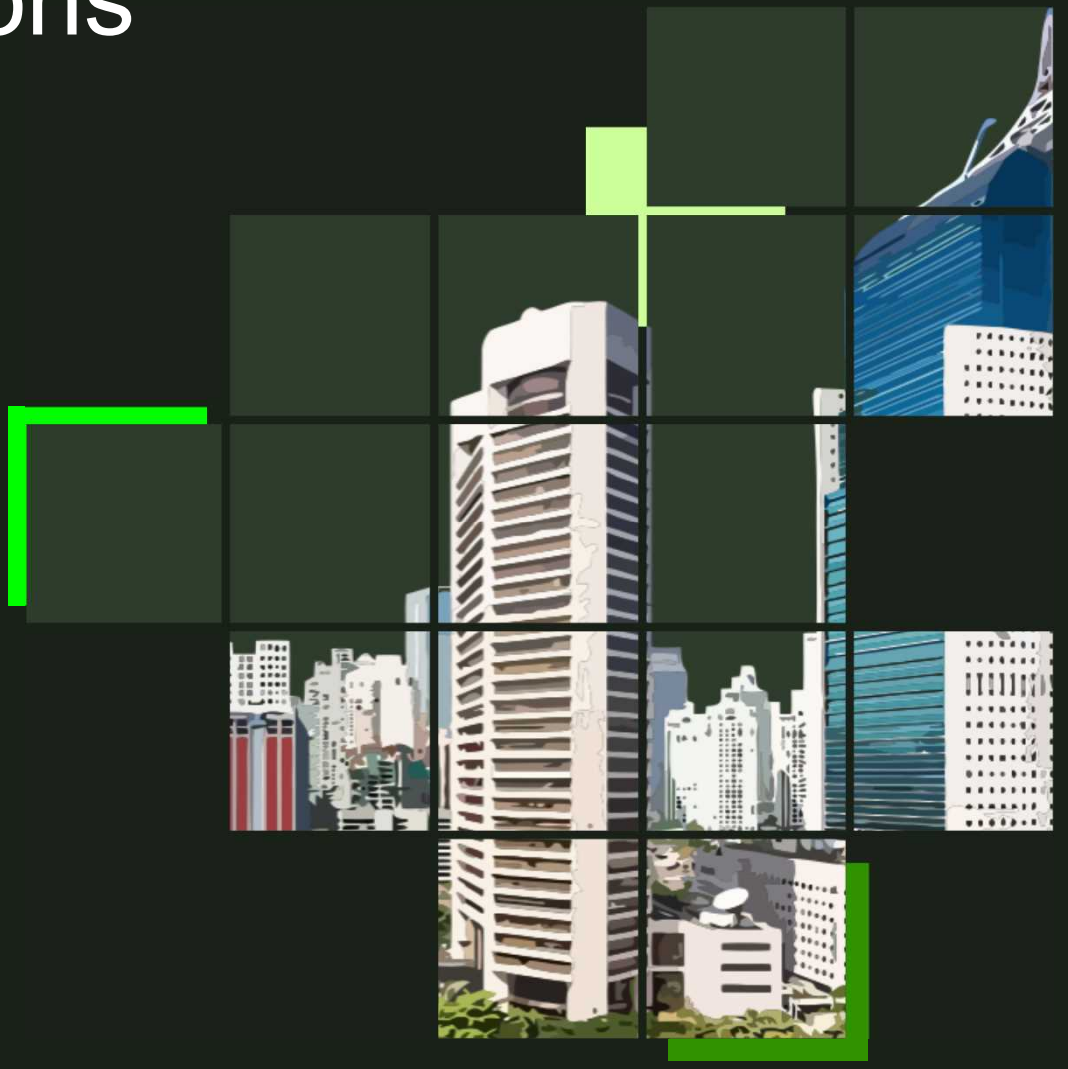
Surabaya & Kitakyushu
Energy management in buildings
Waste management

Batam & Yokohama
Energy efficiency in airport and waste water treatment

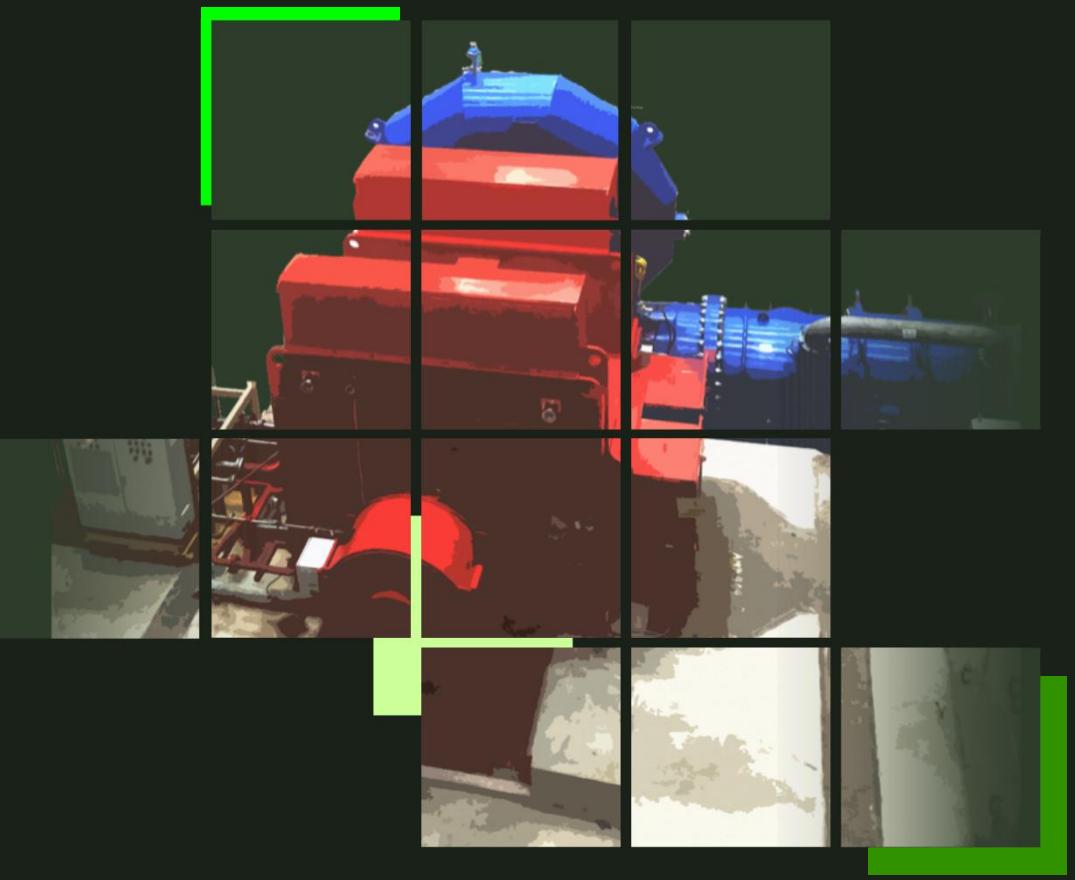
Bandung & Kawasaki
Energy management in buildings
Street lamps
Waste management

Semarang & Toyama
Bus rapid transit
Mini hydro
Solar PV

Jakarta & Kawasaki
Green building & green industry
Solid waste
Solar PV



Project example 1



10MW Mini Hydro Power Plant Project in North Sumatra

Project participants
PT. Citra Multi Energi & Toyo Energy Farm Co., Ltd.

Location
Parlilitan, Humbang Hasundutan

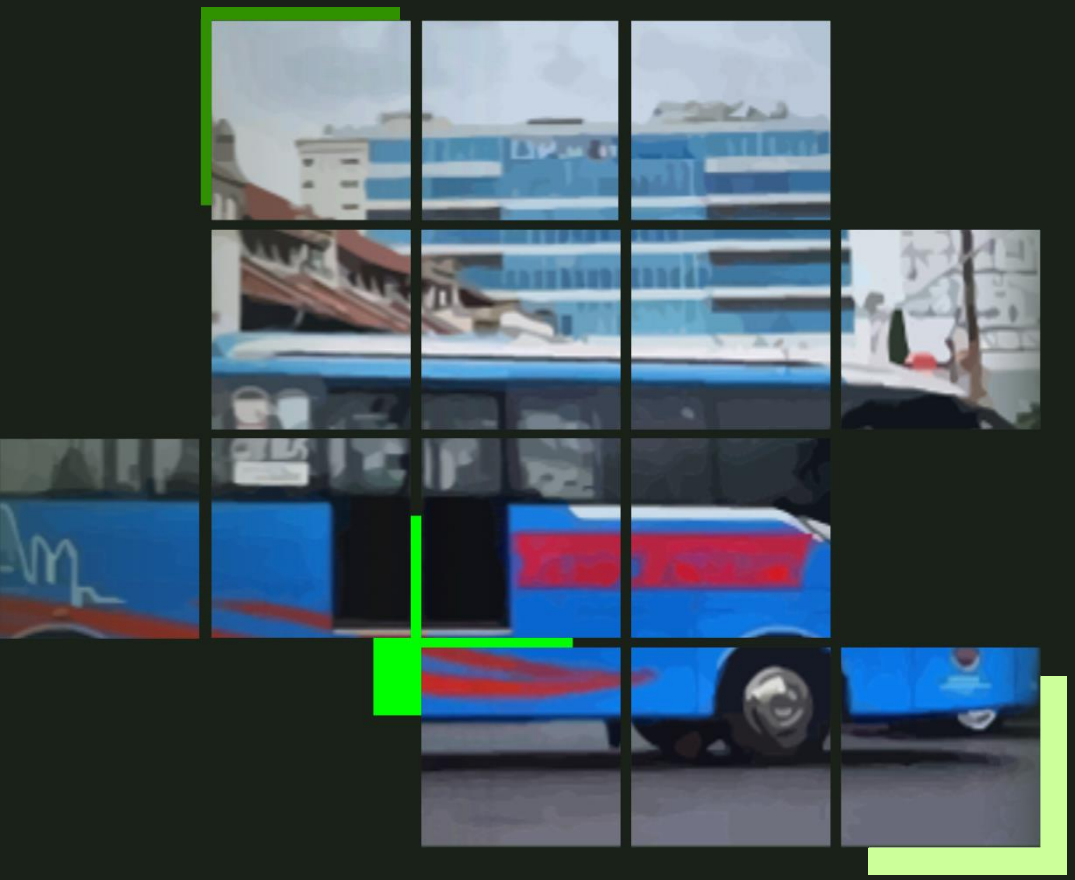
Estimated emission reduction
47,182 tCO2e/year

A run of river power plant constructed in North Sumatra with a capacity of 10MW (5MW x 2).

Generated electricity is to be supplied to the state power company (PLN) resulting in GHG emission reductions by replacing grid electricity.

This project is also expected to contribute to improving energy supply in the region.

Project example 2



Introduction of CNG-Diesel Hybrid Equipment to Public Bus

Project participants
BLU UPTD Semarang & Hokusan Co., Ltd.

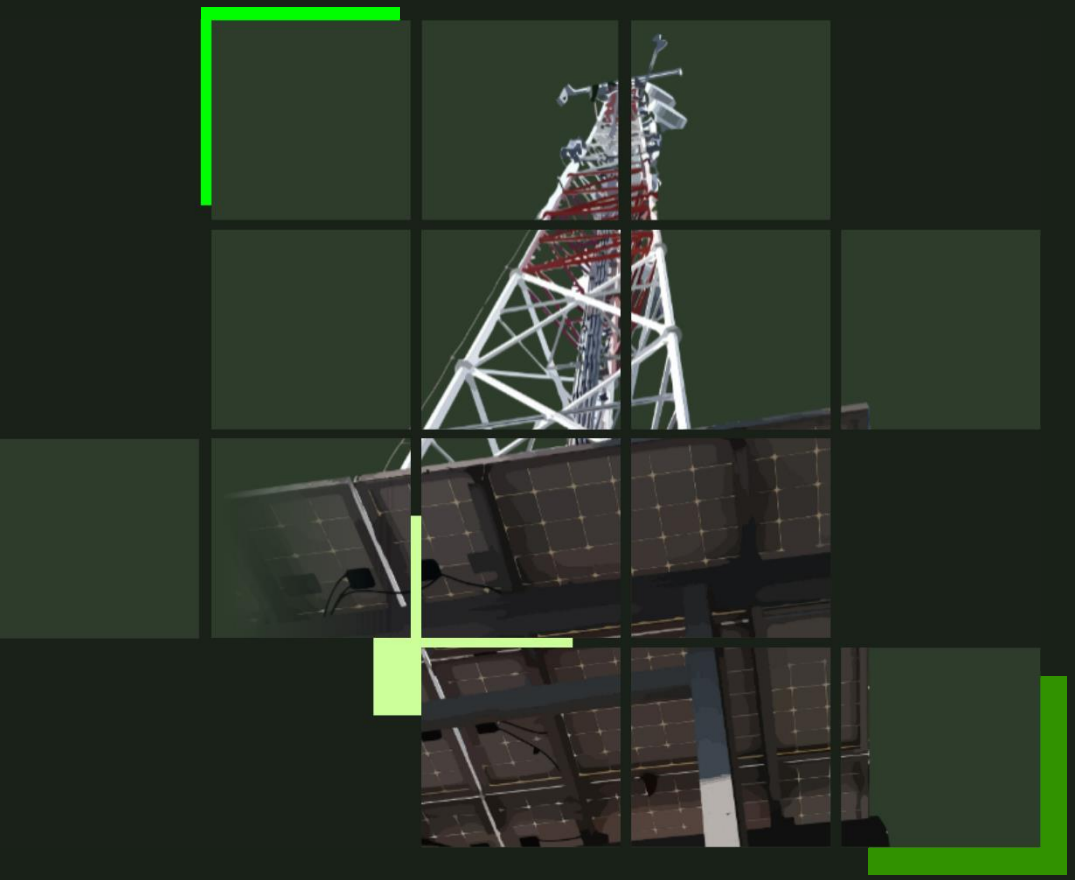
Location
Semarang

Estimated emission reduction
1,870 tCO2/year

Based on the City to City cooperatian between Toyama City and Semarang City, this project aims to reduce GHG emissions through fuel switch from diesel to CNG.

72 diesel buses owned by Trans Semarang, including 25 large-sized buses and 47 mid-sized buses, are retrofitted from diesel engine to hybrid engine with CNG system available. These buses are considered more cost-effective through fuel switching.

Project example 3



Installation of Tribrid System to mobile communication's Base Transceiver Stations

Project participants
PT. XL Axiata & KDDI Corp.

Location
20 locations in Sumatera, Java & Kalimantan

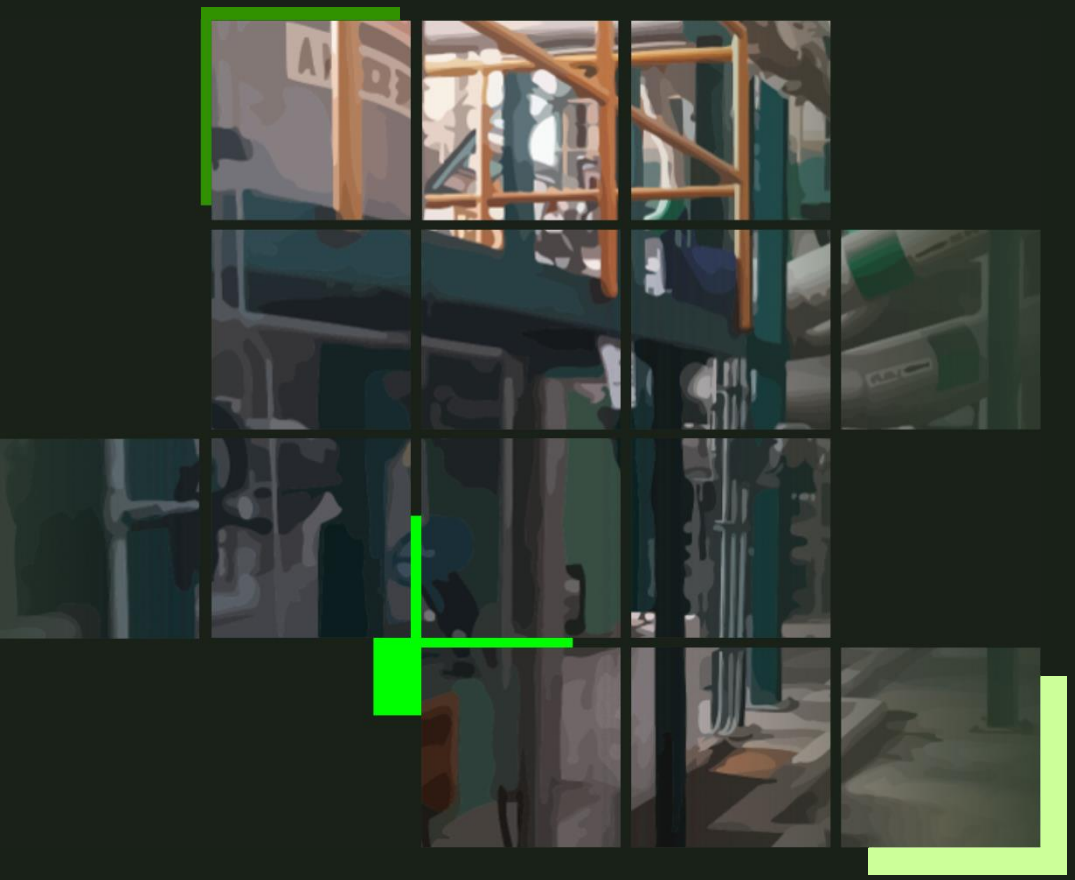
Estimated emission reduction
380 tCO2/year

Tribrid System at mobile communication's Base Transceiver Stations (BTS) are installed at 20 location in off-grid and poor-grid area in Republic of Indonesia.

Tribrid System is defined as a combined system of solar PV, batteries, and electric power control system.

Tribrid System controls charge-discharge of battery, and also improves the operational efficiency of diesel generators with its electric power control system. Therefore, it enables BTS to reduce CO2 emissions from electricity and fossil fue

Project example 4



Energy-Efficient Waste Paper Processing System

Project participants
PT. Fajar Surya Wisesa & Kanematsu Corp.

Location
PT. Fajar Surya Wisesa Factory, Bekasi

Estimated emission reduction
19,011 tCO2/year

This project aims to achieve 10% electricity usage reduction per ton produced by introducing high efficient system for the old corrugated carton (OCC) proces, thereby contributing to CO2 reduction.

This OCC process is a process to prepare clean raw materials containing dissolved paper fibers by mixing used corrugated board into water for defiberization and removing foreign substances.

Since a large amount of material (water) is used in this process, the electricity is significantly consumed to the power motors.

Project example 5

Installation of Gas Co-generation System for Automobile Manufacturing Plant

Project participants
PT. Toyota Motor MI (TMMIN) & Toyota Tsusho

Location
TMMIN factory, Karawang

Estimated emission reduction
20,310 tCO2/year

The purpose of this project is to reduce energy consumption and CO2 emission by installing a gas co-generation system.

This system adopts a high efficiency gas-engine and heat recovery system to generate steam 7,8 MW and hot water.

This project contributes to the reduction of energy consumption at coal fired power generation prevailed in Indonesia, and to the reduction of GHG and air pollutant emissions.

Thank You

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