



Innovating Finance,
Accelerating Actions

Joint Committee on Climate Change (JC3) **Climate Finance Innovation Lab**

Cohort 2

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An initiative by:



Joint Committee
on Climate Change

Administrator:



BPMB
Malaysia Development Bank

Strategic Partner:



Global Compact
Network Malaysia,
Brunei & Cambodia



CFIL Project List

- | | | | |
|----|--|----|---|
| 1 | <u>Universiti Malaysia Perlis</u> | 11 | <u>Tulen Fuels</u> |
| 2 | <u>QuinTerra Urban Farm</u> | 12 | <u>iForte Technologies Sdn Bhd</u> |
| 3 | <u>Global Farm Biotech Sdn Bhd</u> | 13 | <u>Budaya Potensi Sdn Bhd</u> |
| 4 | <u>AAE Solutions Sdn Bhd</u> | 14 | <u>Omneeverse Sdn Bhd</u> |
| 5 | <u>Regen Jabor Sdn Bhd</u> | 15 | <u>WONR SDN. BHD.</u> |
| 6 | <u>Renewcell (M) Sdn Bhd</u> | 16 | <u>Seera Group Sdn. Bhd.</u> |
| 7 | <u>Econili Battery New Energy Sdn Bhd</u> | 17 | <u>Universiti Malaysia Kelantan</u> |
| 8 | <u>Globaliot Sdn Bhd</u> | 18 | <u>Eko Kuasa (Malaysia) Sdn. Bhd.</u> |
| 9 | <u>Rev Charge Sdn Bhd</u> | | |
| 10 | <u>Centre for Offshore Renewable Energy
(CEFORE)</u> | | |



Thematic area

Nature-based solutions and biodiversity

Climate action

Environmental

Project maturity

Scaling

Funding required

RM2,680,000

About

The project cultivates Indigofera plants and produces eco-friendly dye powder as a sustainable alternative to synthetic dyes. It includes a one-acre pilot plantation, development of a natural dye extraction process and textile application trials.

Led by Suri Inspirasi Sdn Bhd, the initiative will also train 200 participants in sustainable farming and textile production, creating green job opportunities and supporting rural economic development.

The project aims to establish Malaysia's first Indigofera-based dye facility and contribute to more sustainable manufacturing practices, in line with SDG 6 and SDG 12.

Website

unimapforsociety.unimap.edu.my

QuinTerra Urban Farm

Closing the Loop on Food Waste Sustainably



Thematic area

Circular economy and sustainable cities

Climate action

Climate mitigation;
Environmental

Project maturity

Full implementation

Funding required

RM1,500,000

About

QuinTerra is a Malaysian social enterprise transforming food waste into sustainable agricultural resources through an integrated Black Soldier Fly Larvae and aquaponics system. Its closed-loop model converts food waste into organic fertilizer, fish feed and pesticide-free vegetables.

The project helps reduce methane emissions, strengthen urban food security and create green jobs through waste collection, bioconversion, aquaponic farming and community training. By combining climate impact with practical circular economy solutions, QuinTerra offers a scalable model for more sustainable food and waste management.

Website

quinterra.my



About

Global Farm Biotech Sdn Bhd is a Malaysian agribiotechnology company developing and commercialising F1 hybrid paddy seeds for the rice industry. With more than 10 years of end-to-end research and development, the company has completed the full seed development process, from early-stage breeding to Department of Agriculture-certified mass production.

As one of Malaysia's few private-sector players with proprietary paddy seed intellectual property and local production capabilities, GFB supports agricultural innovation, improves access to locally developed seed varieties and contributes to strengthening Malaysia's food security.

Thematic area

Sustainable agriculture

Climate action

Climate mitigation

Project maturity

Full implementation

Funding required

RM550,000,000

About

The project applies AI-driven chiller plant optimisation to improve energy efficiency across large industrial and commercial facilities, including semiconductor and retail sites. It is offered through direct purchase and “zero capex” performance-based models, enabling customers to reduce energy costs and carbon emissions with flexible financing options. The initiative also supports local innovation capabilities and aims to scale the adoption of energy-efficiency solutions across Northern and Central Malaysia.



MRRG | Mr. Roger | AI CONDUCTOR for HVAC Energy Optimization | **MD** MALAYSIA DIGITAL | **AAE** A SMART FUTURE

ONE PLANT. ONE CONDUCTOR. PERFECT HARMONY.

Mr. Roger orchestrates your entire chiller plant in real time to reduce energy, optimize performance, and ensure comfort.

COOLING TOWERS
CHILLERS
PUMPS
AHUs

WE DO NOT JUST REDUCE ENERGY. WE CORRECT HOW ENERGY FLOWS.

 22% HIGHER PLANT EFFICIENCY Typical Improvement	0.71 → 0.55 kW/TR Chiller Plant Efficiency 1-Month Average	 VERIFIED RESULTS IPMVP Option B Measurement & Verification
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 EXPLAINABLE AI Rule-based. Transparent. No black box. We show you why.	 WHOLE PLANT OPTIMIZATION Orchestrates chillers, pumps, towers & AHUs as one intelligent system.	 SUSTAINABLE IMPACT Lower energy consumption. Lower carbon footprint. Better for your business and the planet.
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Thematic area

Energy transition and green innovation

Climate action

Climate mitigation

Project maturity

Scaling

Funding required

RM10,000,000

Website

aaesolution.com.my

Regen Jabor Sdn Bhd

Regen Jabor



Thematic area

Circular economy and sustainable cities

Climate action

Environmental

Project maturity

Full implementation

Funding required

RM30,000,000

About

Regen Jabor Sdn. Bhd. rehabilitates landfill sites through advanced landfill mining and ecosystem engineering. Its proprietary technologies can recover up to 95% of landfill waste and convert it into useful materials, including organic compost known as NANO SOIL, recyclables and refuse-derived fuel.

The project aims to reduce landfill-related environmental impacts, improve resource recovery and support the safe management of harmful materials. Through partnerships with relevant stakeholders, Regen Jabor also seeks to create sustainable economic opportunities and advance Malaysia's circular economy.

Renewcell (M) Sdn Bhd

MBSA Used Industrial Battery Collection & Distribution Centre



Thematic area

Circular economy and
sustainable cities

Climate action

Other

Project maturity

Idea/ Concept

Funding required

RM5,000,000

About

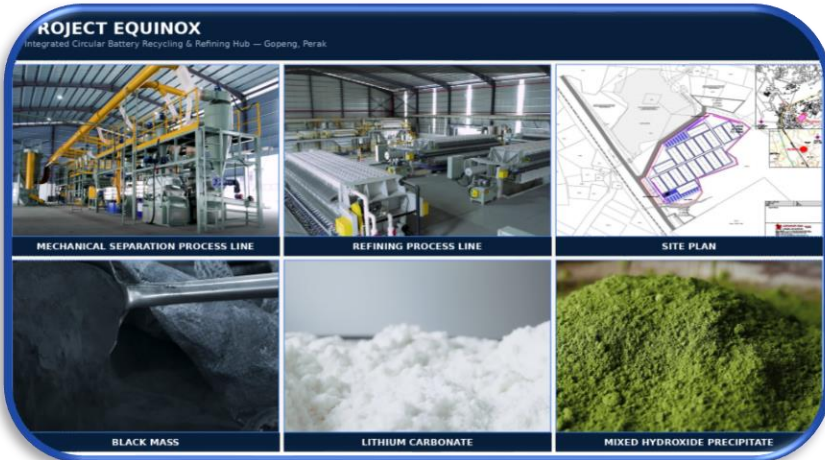
The MBSA Used Industrial Battery Collection, & Distribution Centre is a strategic battery circularity hub that transforms used batteries into valuable assets through collection, regeneration, second-life deployment, and responsible recycling. The initiative reduces waste, cuts carbon emissions, maximises resource efficiency, and accelerates Malaysia's transition towards a sustainable circular economy.

Website

renewcell.com.my

Econili Battery New Energy Sdn Bhd

Project Equinox: Integrated Circular Battery Recycling and Refining Hub



About

Project Equinox is developing the Gopeng Integrated Circular Battery Hub in Perak, an integrated lithium-ion battery recycling and refining facility. The project will enable Econili to expand beyond black-mass production into hydrometallurgical refining, producing critical battery materials such as lithium carbonate and mixed hydroxide precipitate.

By recovering valuable materials from used batteries, the initiative supports waste reduction, resource circularity and a more resilient domestic battery ecosystem. It also aims to strengthen Malaysia's role in the regional clean energy and electric vehicle supply chain.

Website

econilib2b.com

Thematic area

Energy transition and green innovation

Climate action

Environmental Sustainability

Project maturity

Scaling

Funding required

RM30,000,000



Thematic area

Energy transition and green innovation

Climate action

Climate Adaptation

Project maturity

Full Implementation

Funding required

RM 15,000,000

About

This project captures biogas generated from palm oil mill effluent and upgrades it into purified biomethane before liquefaction. The liquefied biomethane is then transported to off-takers as a renewable energy source through virtual pipeline.

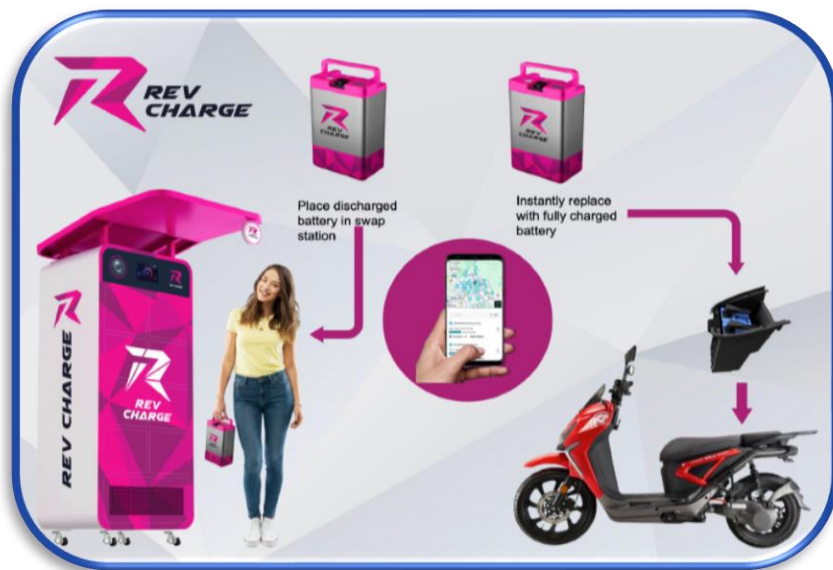
By converting agricultural waste into low-carbon fuel, the project helps reduce methane emissions, improve waste-to-energy utilisation and support cleaner energy alternatives. It also contributes to Malaysia's energy transition and circular economy objectives.

Website

www.gacstech.com

Rev Charge Sdn Bhd

Electric Two-Wheeler Battery Swapping Network for Sustainable Urban Mobility



Thematic area

Energy transition and
green innovation

Climate action

Environmental

Project maturity

Scalling

Funding required

RM 19,000,000

About

Rev Charge is developing a battery-swapping ecosystem for electric two-wheelers, allowing riders to exchange depleted batteries in under 60 seconds instead of waiting for conventional charging. The platform integrates IoT telematics and ESG monitoring to track vehicle performance, emissions and operational data.

By expanding battery-swapping infrastructure, the project aims to accelerate electric mobility adoption in Malaysia, reduce fuel consumption and carbon emissions, and support the country's energy transition.

Website

<https://revcharge.my>

Centre for Offshore Renewable Energy (CEFORE)

Coastal Clean Energy for Fishers & Business



About

Center for Offshore Renewable Energy, CEFORE integrates offshore wind, floating solar, wave energy and battery storage to deliver clean energy solutions at Pantai Tok Jembal, Terengganu.

The project also supports local fishing communities by providing access to renewable energy and cold storage facilities, while enabling commercial services such as EV charging and other energy solutions.

By combining multiple renewable technologies in one integrated system, CEFORE aims to reduce emissions, strengthen coastal livelihoods and demonstrate a financially sustainable model for renewable energy development in Malaysia.

Website

cefore.umt.edu.my

Thematic area

Energy transition and green innovation

Climate action

Climate Mitigation

Project maturity

Full Implementation

Funding required

RM 30,000,000

Tulen Fuels

Tulen Fuels



Thematic area

Energy transition and green innovation

Climate action

Climate Mitigation

Project maturity

Full Implementation

Funding required

RM 30,000,000

About

A commercial-scale green methanol project converting palm oil mill effluent (POME) and other industrial waste into low-carbon fuel, using proven German technology. Operations run through dedicated SPVs within existing palm oil mill sites in Malaysia, avoiding new land requirements and securing reliable feedstock.

A 20-year offtake agreement with a German partner covers logistics and distribution to industrial customers across Europe and Asia. The project offers a bankable, scalable platform supporting circular economy principles, industrial decarbonization, and Malaysia's emerging position in the global green fuels industry.

iForte Technologies Sdn Bhd

ESGConnect: AI-Powered Digital Platform for ESG Transformation



About

ESGConnect is an AI-powered platform that helps businesses manage and accelerate their ESG and sustainability journey through an integrated digital ecosystem. The platform connects organisations with ESG consultants, solution providers, trainers and sustainability professionals through a trusted marketplace.

With a strong focus on SMEs, ESGConnect aims to improve access to relevant expertise, strengthen ESG capabilities and enhance sustainability performance. The platform supports more businesses in adopting practical ESG solutions and contributes to Malaysia's transition towards a more resilient, low-carbon economy.

Website

iforte.com.my

Thematic area

Energy transition and green innovation

Climate action

Environmental

Project maturity

Full Implementation

Funding required

RM 28,592,000.00

Budaya Potensi Sdn Bhd

Multi-Site Carbon Removal Platform for Sustainable Agriculture



Thematic area

Sustainable Agriculture

Climate action

Environmental

Project maturity

Full Implementation

Funding required

RM 50,000,000

About

The Multi-Site Carbon Removal Platform converts agricultural biomass, including palm kernel shells, coconut shells, wood chips and other suitable biomass, into durable biochar for long-term carbon storage and agricultural applications.

Using a decentralised hub-and-spoke model, production facilities are located close to biomass sources to improve operational efficiency and enable scalable expansion. The project aims to reduce biomass waste, support sustainable agriculture and generate verified carbon removal credits, contributing to Malaysia's low-carbon transition and circular economy goals.

Website

www.budayapotensi.com

Omneeverse Sdn. Bhd.

Graphene-Enhanced Anti-Static Epoxy Coatings for Electrostatic Protected Areas



About

This project develops and manufactures graphene-enhanced anti-static epoxy coatings for electrostatic discharge-sensitive areas. The coating is engineered to provide controlled electrical resistance and effective static-charge dissipation while maintaining durable epoxy surface performance.

Through advanced material formulation, the project aims to improve operational reliability, support longer coating service life, and reduce maintenance requirements and material waste. The initiative strengthens Malaysia’s advanced materials manufacturing capabilities and supports the development of high-value industrial sectors.

Website

www.omneeverse.com

Thematic area

Circular Economy and Sustainable Cities

Climate action

Environmental

Project maturity

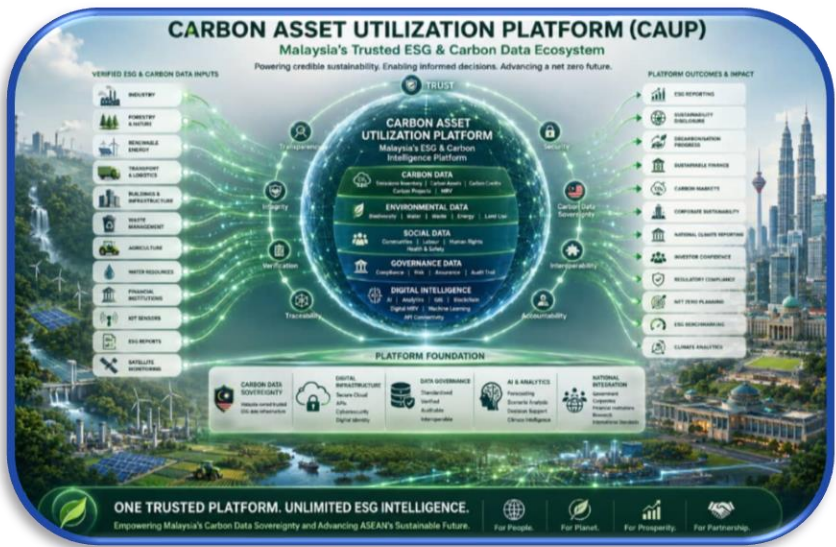
Full Implementation

Funding required

RM 32,000,000

WONR Sdn. Bhd.

Carbon Asset Utilization Platform (CAUP) for Carbon Market Development



About

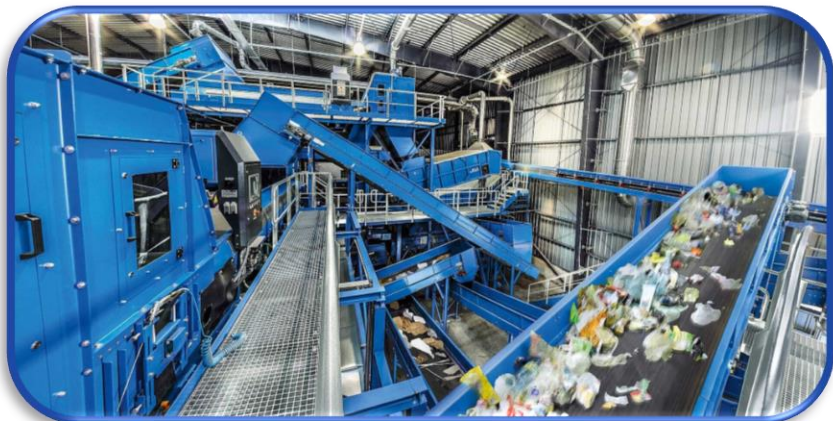
The Carbon Asset Utilization Platform (CAUP) is a digital platform designed to become Malaysia's trusted repository for rich, diverse ESG and carbon data. It strengthens transparency, credibility, and accountability in sustainability reporting by integrating high-quality environmental, social, governance, and carbon asset information.

CAUP enables financial institutions, organisations, and stakeholders to demonstrate measurable decarbonisation progress and make informed decisions. It aspires to establish carbon data sovereignty for Malaysia and become the leading Malaysian and ASEAN platform for ESG and carbon data, supporting sustainable investment and advancing credible climate action.

Thematic area	Energy Transition and Green Innovation
Climate action	Climate Mitigation
Project maturity	Scaling
Funding required	RM 30,000,000

Seera Group Sdn. Bhd.

Secondary Raw Material and Refuse-Derived Fuel (RDF) Recovery Facility



Thematic area

Circular Economy and Sustainable Cities

Climate action

Emission Reduction and Fossil Fuel Displacement

Project maturity

Pre-development

Funding required

RM 160,000,000

About

This project recovers valuable secondary raw materials and produces alternative fuels from municipal solid waste, reducing the volume of waste sent to landfills by more than 85%, offsetting 200 tons of Carbon and fossil fuels per day.

Recovered materials, including plastics, paper and metals, are supplied to recycling manufacturers and cement producers for reuse and Refuse Derived Fuel is produced from the balance. By improving resource recovery and reducing landfill dependency, the project forms the foundation of Malaysia's circular economy, lowers emissions and decreases reliance on imported alternative fuels and virgin raw materials.

Website

seera.my

Universiti Malaysia Kelantan (UMK)

Gua Musang Integrated Climate-Resilient Bioeconomy and Nature-Positive Living Lab



About

This project establishes an integrated climate-resilient bioeconomy and nature-positive living lab in Gua Musang. It combines sustainable aquaculture, kelulut and black soldier fly initiatives, circular waste valorisation, biodiversity conservation, and human-elephant coexistence measures.

The project also establishes a premium melon industry that integrates smart farming, value-added processing, employment creation, food security, and circular bioeconomy innovations. Through Orang Asli participation, inclusive safeguards and community engagement, the initiative strengthens rural livelihoods and sustainable resource use, while developing a scalable climate adaptation and nature-positive model to support a future RM20 million expansion pipeline.

Thematic area

Circular Economy and Sustainable Cities;
Nature-Based Solutions and Biodiversity

Climate action

Climate Adaptation

Project maturity

Proof-of-Concept
Expansion

Funding required

RM 2,000,000

Eko Kuasa (Malaysia) Sdn. Bhd.

National Energy Efficiency and Decarbonisation Programme for Water and Wastewater Infrastructure

Water Treatment Plant Project Site



Wastewater Treatment Plant Project Site



Thematic area

Energy Transition and
Green Innovation

Climate action

Climate Mitigation

Project maturity

Scaling

Funding required

RM 190,000,000

About

This project improves the energy efficiency of Malaysia's water and wastewater infrastructure through an Energy-as-a-Service model. It deploys energy-saving solutions across treatment plants and related facilities, enabling operational cost savings and carbon emission reductions without significant upfront investment.

Through a scalable, performance-based approach, the project supports infrastructure decarbonisation, strengthens operational resilience and contributes to Malaysia's energy transition.

Website

[Home](#) | [Eko Kuasa](#)



Innovating Finance,
Accelerating Actions

Thank you

www.mycfil.com

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