



SOUTHEAST ASIA-EUROPE
JOINT FUNDING SCHEME FOR
RESEARCH AND INNOVATION

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Carbon Addons

Indonesia

Bedulang Impact: Creating Low Carbon Agriculture and Regenerative Tourism in Post-Mining Land of Belitung Island

Topic 3

Brokerage Event – 9th Call

03 October 2024



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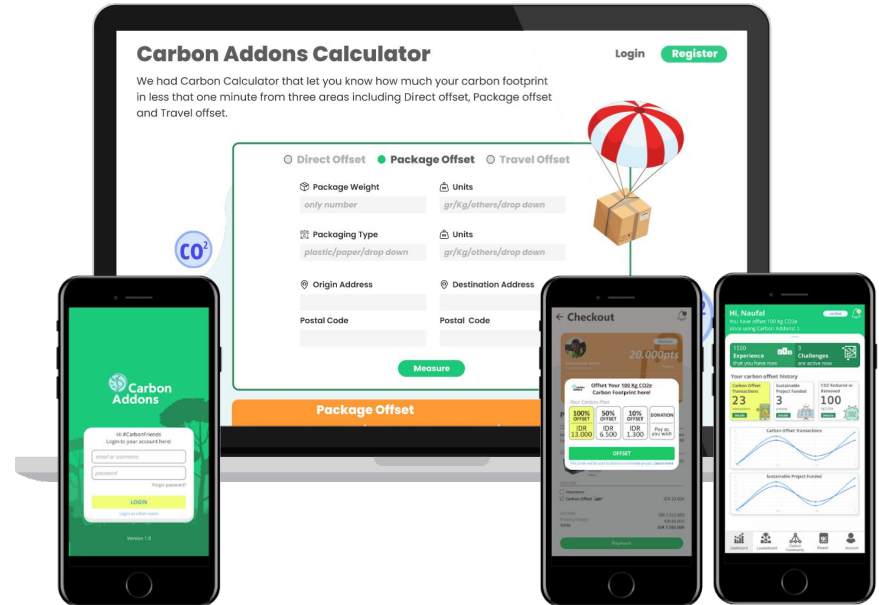
About Carbon Addons

Climate-tech startup that strives to **reduce carbon footprint** from our daily activities incl. online shopping, traveling to shipping through **one-stop carbon neutral platform.**

Our goal is to support Global Climate Action and **empowering local communities.**

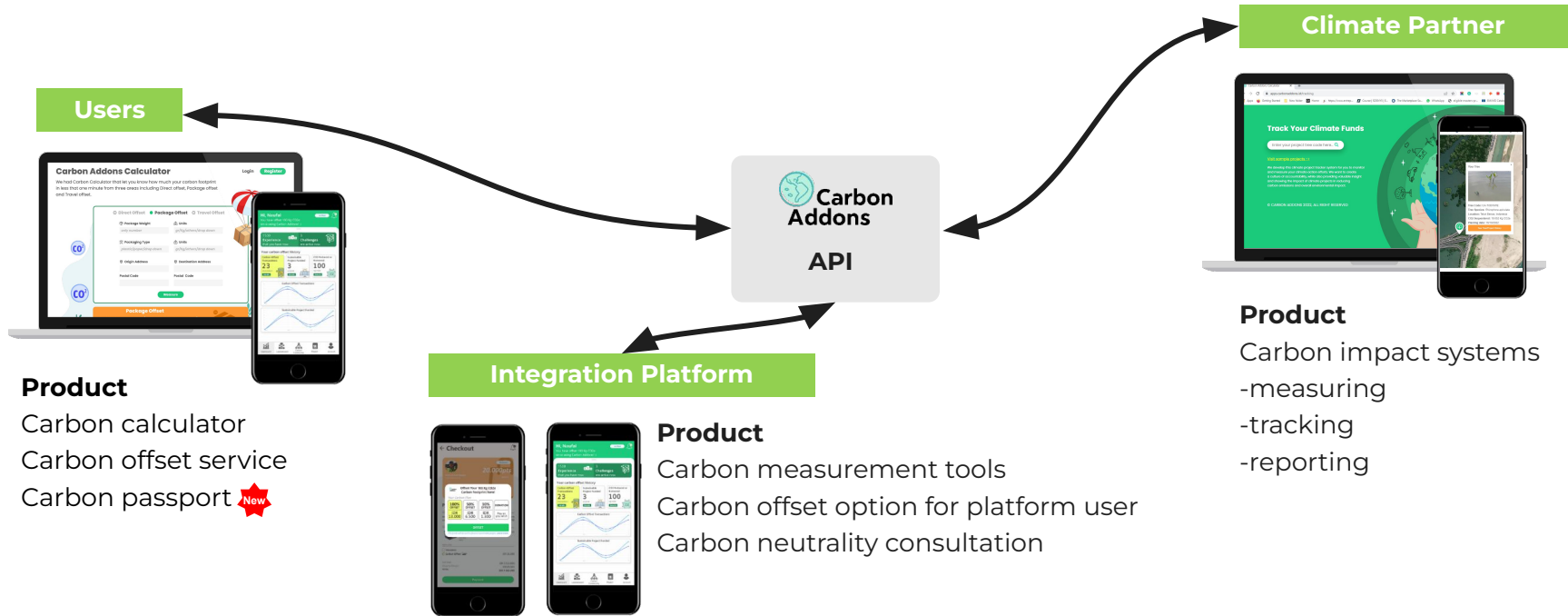
Our Products and Services:

- Carbon offset API/Plugin
- Carbon calculator
- Consultation service on carbon measurement and offsetting
- Low carbon emission event
- NZE personal & employee engagement



More info:
www.carbonaddons.id

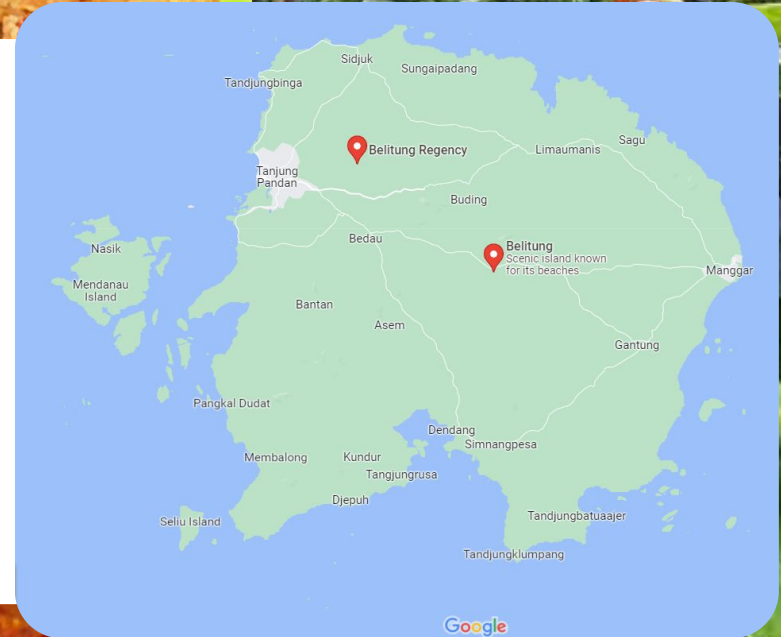
About Carbon Addons Tech



Climate-tech startup that strives to **bring climate action effortless for all** through **one-stop carbon neutrality platform.**

PROJECT BACKGROUND

1. Two Regencies: Belitung & East Belitung
2. 17 geoparks: 8 @ Belitung Regency & 9 @ East Belitung Regency
3. Area: 4,800 km² plains & 13,000 km² ocean.
4. UNESCO Global Geopark 2021
5. Since 2023, Carbon Addons has been doing low carbon tourism research in Belitung Island with several universities.
6. Local biodiversity for food security & community economy i.e Pepper
7. Data on climate mitigation of Belitung tourist & agriculture destinations is very minimal, amidst efforts to maintain global recognition of the existence of the Belitung Geopark.



BELITUNG MAIN PROBLEM

>70%



(Tin Mining in Belitung)

Mining permit holders who have not complied with the regulations for reforestation of former mining land in Belitung.

(Abandoned Tin Post Mining Land)



Causing many ex-mining lands to be infertile.

For example in Sijuk Village which resulted in a decline in agricultural crop production.

20 HA

Dependence on external resources outside the island, causing many struggles, coupled with minimal employment options and economic instability.

How If...

1. How can the tin post-mining lands be transformed into productive, climate-resilient agricultural areas?
2. How can we integrate carbon-neutral farming with eco-tourism to enhance local resilience?



Low Carbon Pepper Agriculture

Permaculture system with essential oil crops such as *Citronella* and/or local food crops such as Belitung Sweet Potato.

Agricultural product development:

1. Dried pepper
2. Essential Oil
3. Hydrosol-based product
4. Circular product i.e. compost, backlog
5. Low carbon tourism development

Low Carbon Practice Focus:

1. Organic – Silvopasture
2. Energy & Water Conservation
3. Measurable carbon farming practices

Regenerative Tourism based on Low Carbon Agriculture and Local Wisdom



The Belitung Spice Route with its rich history, combined with sustainable pepper farming practices will open up new stories & opportunities for impact tourism model.

Why We Choose Low Carbon Practices?

Sustainable agricultural practices that reduce carbon emissions using **organic approaches, energy and water conservation, and emissions measurement** to improve product traceability and create unique selling points.



12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION

24-37%
Significantly reduce carbon emissions and Increase Climate Resilience.

FAO, 2021



15 LIFE ON LAND
17 PARTNERSHIPS FOR THE GOALS

50%
Increase Soil Productivity and Biodiversity through land degradation reversal.

ICRAF, 2022



1 NO POVERTY
8 DECENT WORK AND ECONOMIC GROWTH

20%
Increase Farmer Income through low-carbon local product markets.

World Bank, 2023

Project Goal: To rehabilitate post-mining land using low-carbon agriculture, particularly sustainable pepper farming, and integrating regenerative tourism for long-term local economic and environmental resilience

Research Plan and Phases

Soil Remediation & Climate Adaptation

- Conduct soil assessments and implement organic permaculture.
- Aim: Improve soil fertility by 50% and boost resilience to climate change.

Scaling Low-Carbon Agriculture

- Implement renewable energy, optimized irrigation, and organic farming.
- Aim: Reduce carbon emissions by 37% through sustainable pepper farming.

Product Development & Community Empowerment

- Develop market-ready low-carbon pepper products with strong traceability.
- Empower local farmers via cooperatives, reaching 2,500 people directly and 12,000 indirectly.

Year 1

Year 2

Year 3

Strategy

Low Carbon Practices

Resource Efficiency

Sustainable Financing

Potential Collaboration

First Year Project Timeline

Activity	Q1			Q2			Q3			Q4		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Baseline study of farmer capability & low carbon practices	● —▲—▲—											
Implementation of land revitalization and system development			●	—								
System improvement, Agricultural training and sustainable product planning.						●	—					
Monitoring, evaluation and publication									●	—		

Partner Research

We are seeking the following partners:

Region: Southeast Asia / Europe

Expertise:

- Soil remediation & environmental biotechnology.
- Emission tracking technologies in agriculture.
- Circular economy and energy-efficient farming systems.

Role:

- Provide advanced soil remediation techniques.
- Develop scalable low-carbon farming solutions.

Ex:

- PSAV (Vietnam): Sustainable pepper production expertise.
- Preferred by Nature (Denmark): Low Carbon and management

Local Partners



Ecosystems partner,
helping build end-to-end
system of Bedulang
Impact



Land revitalization,
organic practices,
product development.



Farmer capacity
assessment, market
research, product
development training,
marketing development.



Carbon Addons will lead sustainable agriculture and climate tech innovation and implement carbon tracking and sustainable practices.



Belitung Sustainable Pepper Lab

Let's be part of

**Indonesia's First
Low Carbon Pepper
and Tourism Initiative**

#RebuildBelitung

Our Partners and Clients

Collaborated with 100+ institutions

Ranging from Government, Corporate, University, Community, NGO and Media




As seen on & winners





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