



CarbonEthics
Indonesia

Impact Report 2022

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Message from JICA

As Japanese Government's Official Development Assistance (ODA) implementing agency, Japan International Cooperation Agency (JICA) implements various projects with developing country governments. Indonesia is one of Japan's important partner countries and 2023 will mark the 65th anniversary of the establishment of diplomatic relations between Japan and Indonesia.

This report was prepared as part of JICA's project NINJA in Indonesia in 2022. Project NINJA, which stands for Next Innovation with Japan, is JICA's accelerator programme to support start-ups that solve social problems in the seed phase.

CarbonEthics was one of three companies selected for the programme from more than 250 applicants. They provide a clear hand for decarbonisation to various stakeholders, such as mangrove plantations, empowering local communities, as well as educational projects.

We hope this report will deepen readers' understanding of CarbonEthics and encourage more partners to work together to achieve decarbonisation.



Founder's Message

It has been almost four years since the founding of CarbonEthics. We have evolved from a foundation—that educates and inspires individuals and institutions for climate action—to an enterprise, a carbon project originator that removes carbon from the atmosphere with tech-enabled natural climate solutions. 2022 was a transformative year, as we took a big faith to scale our organization while still staying true to our clarity of purpose from the very beginning when we started this journey.

Through the tireless efforts of our team and the support of our partners, we have educated more than 21,000 individuals, sequestering more than 6.6k tonnes of carbon. As reported from the field, CarbonEthics beneficiaries have received 3 times higher income than other local people, benchmarking from minimum regional wage across our operational sites. We have also expanded our team and network of partners, demonstrating the power of collaboration and shared purpose.

However, we understand that the challenges of climate change are getting more immense, and so is our determination to overcome them. In 2023, with the founders now dedicating their time fully and a larger team in place, we are developing our core product focus in the blue carbon ecosystem while exploring new green ecosystems. We envision a world where decarbonization efforts are effortless. CarbonEthics aims to restore 150,000 hectares of land under management and also generate 17 MT of carbon impact by 2030, all while supporting local communities and restoring biodiversity.



This impact report is intended to inspire climate action while providing transparency to all stakeholders. We want to share our voice and best-case practices with the world, showcasing that in order to decarbonize the world, we must collaborate. Our battle is against the climate crisis, not against our climate peers. There is no such thing as competitors, we are all collaborators. The government, corporations, NGOs, activists, and climate startups like ours must go hand-in-hand.

We hope you enjoy reading our journey in 2022 through this report. And we would like to extend our gratitude to all our partners: Governments, Corporations, NGOs, Medias, Accelerators, Communities, and Individuals. Your sincere support has made our achievements possible. Together, we are proving that good intentions can turn into a positive force of nature.

Let us continue the good work in 2023 and beyond. We believe that by working together, we can overcome the decarbonization challenge, restore the climate balance, and also generate a positive impact to local communities, shaping a better future for all.

Agung Bimo Listyanu

CEO of CarbonEthics

The Journey

About CarbonEthics

CarbonEthics is an organization that aims to restore the climate balance through natural climate solutions with pioneers in blue carbon conservation. When you conserve with CarbonEthics, you are not only creating positive environmental change, you are also advancing social impact by directly enhancing the livelihoods of our local community partners and biodiversity.

Starting as a not-for-profit organization, we are branching to Impact Enterprise to provide more climate solutions through our services: Carbon Calculation, Carbon Consulting, Carbon Sequestration, Monthly Subscription, Climate-friendly Travel, and provide transparency through our Digital Monitoring System.

We want to restore the climate balance through climate education and blue carbon ecosystem conservation.

Impacting Communities (For The Farmers-For The Society)

Transforming the socio-economic of coastal communities as the heart of our conservation work. We provide community development training and additional income for our farmers through plantation. We also craft and operate customized social programs to increase the livelihoods of local communities.

Educate, Restore & Protect (For The Environment-For The Planet)

Advocating climate action to individuals, institutions, and governments start with education about their climate impact. Then, restore the environment with blue carbon ecosystems which are planted and protected by the coastal communities.

Empowering Youth (For Young People-For The Future Leader)

Led by a group of purpose-driven young leaders from across the nation, we empower youth and provide green jobs to create a significant impact in taking climate action.

Our Mission

Inspire and enable climate action, while improving the livelihood of communities & enhancing biodiversity.

Our Vision

We aim to make decarbonization effort effortless.

Core Values



Impacting Communities



Educate, Restore, and Protect



Empowering Youth



The increase of greenhouse gasses in the atmosphere has caused rising global temperatures, contributing to the ongoing climate change issue. The primary source of the pollutant was human activities, including land utilization, transportation systems, agriculture, and industrial processes. CarbonEthics connects humans with nature to restore the climate balance by decarbonizing the world through natural climate solutions.

Our Co-founders first met at One Young World Summit 2018 in the Netherlands, taking their parts as the representative of their respective companies to solve the world's most pressing issues, including climate change. Their inherent nature led them to bring CarbonEthics to the table.



The ferocity of the climate imbalance led CarbonEthics to be founded in May 2019. By educating, reducing, and sequestering the carbon footprint, we exist to drive climate solutions in Indonesia that contribute meaningful impact on people and the planet. Starting as a Not-For-Profit Organization, CarbonEthics is expanding its arm with an impact enterprise leg, partnering with other businesses and institutions to accelerate the race to net zero.

Collaboration makes the journey possible to go further through actions from high-levels hand in hand with the heart of our work, the grassroots. Hitherto, our almost 4 years of presence proved the effectiveness of natural climate solutions and community-based conservation model with an approach of impact enterprise committing to generate the offered climate solutions of the century.



What is Carbon Footprint?

Carbon footprint refers to the total greenhouse gas (GHG) emissions caused directly and indirectly by an individual, organization, event, or product.

Carbon Footprint =

Emissions resulting from every stage of product or service's lifetime.

The Environmental Protection Agency lists the six main sources of greenhouse gases as transportation, electricity production, industry (include food production), agriculture, commercial and residential, and land use and forestry.



Transportation



Electricity Production



Industry



Agriculture



Commercial & Residential



Landuse & Forestry

With the high volume of carbon footprints emitted, there is a need to offset these carbons through carbon projects or carbon credits trade. Here are two relevant problems around carbon footprint that CarbonEthics is solving.

Landuse and Forestry

Land areas can act as a sink (absorbing CO₂ from the atmosphere) or a source of greenhouse gas emissions. In the United States, since 1990, managed forests and other lands are a net sink, i.e., they have absorbed more CO₂ from the atmosphere than they emit.

Industry

GHG emissions from industry primarily come from burning fossil fuels for energy, as well as GHG emissions from certain chemical reactions necessary to produce goods from raw materials.

Why Decarbonization Matters?

Global carbon emission is set to hit all-time high records every year, devastating our planet, and affecting 85% of the world's population. Decarbonization efforts aim to help governments, institutions, and businesses to reduce their carbon footprint, achieving net-zero in order to restore the climate balance.

Carbon emissions affect the planet significantly.

Global Warming & Climate Change

According to the NRDC*, global warming is “the average global temperature,” which in the past 50 years has increased at “the fastest rate in recorded history.” Global warming is also known as climate change and is a direct result of emissions — or greenhouse gases — entering our atmosphere and causing the average global temperature to warm.

*The Natural Resources Defense Council (NRDC) is a United States-based non-profit international environmental advocacy group.

Threatening Livelihood & Life

Carbon emissions are dangerous in that they threaten the livelihood of our planet, animals, humans, and ultimately, life. The amount of carbon emissions trapped in our atmosphere causes climate change, symptoms of which include the disturbance of animals' natural habitats and many more negative side effects that are dangerous to the planet, human and animal life, and the future.

The problem is, demand for carbon credit is booming, while the supply is very limited.

only

1.3%

carbon credit is available vs global carbon emission.

Carbon Emission in Indonesia

Indonesia is currently the **8th largest greenhouse gas emitter** in the world.

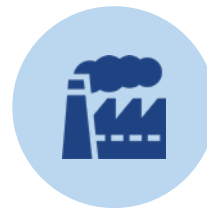
60-85 million tonnes of CO₂e* carbon credit demand reached per year by 2030.

*CO₂e is abbreviation of CO₂ equivalent



The Solution

CarbonEthics aims to restore the climate balance by decarbonizing the world through natural climate solutions.



Industry



Landuse & Forestry

Climate Education

We believe that education is a powerful tool to unlock any issue. Hence, we consistently raise awareness on the importance of taking climate action through nature conservation.

Climate Consultancy

The carbon consultancy program allows institutions to decarbonize or balance the carbon proportion of our earth by calculating, understanding, disclosing, as well as sequestering its carbon footprint.

Carbon Sequestration

We help institutions and individuals to absorb their carbon footprint through natural climate solutions, that directly improving the livelihood of local communities and enhancing biodiversity.

>145k
biotas planted

4 planting sites in Indonesia

>6.6k
tonnes of CO₂e to be sequestered

Key Milestones

We began our journey in 2019.

Three Years Running: within each of our milestones, we reap and sow impacts socially, economically, and environmentally. Heretofore, this is the timeline of CarbonEthics milestones.

2019

- We started our blue carbon conservation with mangrove plantation in Thousand Island, Jakarta.



2020

- Our first expansion to restore the house of beautiful coral reefs, Bali.

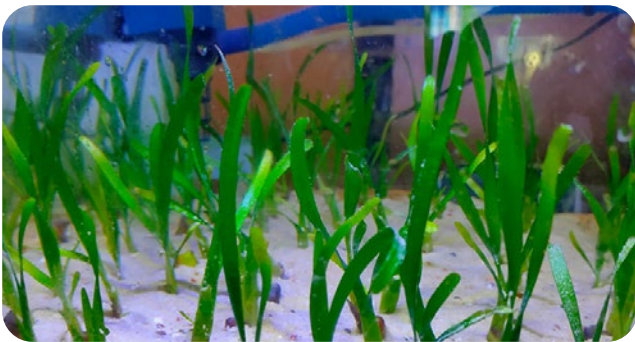


- Our first prominent supporter is World Resource Institute Indonesia, that trusts us to be their implementation partner up till date.



2021

- We expanded to Bintan Island in Sumatra, which has massive potential for seagrass and mangrove.



- Started to be involved by several Indonesian Ministries in carbon-related discussions, such as the Ministry of Environment & Forestry during COP26 UNFCCC.



- Our first featurettes by international media & institutions, such as Forbes, World Bank, One Young World, and Monetary Authority of Singapore.

2022

- Trusted to gain prestigious partnership with our largest clients from World Research Institute (WRI), Telkom International (Telin) and G20'S Youth Engagement Group Y20.
- Honored to be the Finalist of B20 Sustainability 4.0 Awards for Women in Sustainable Initiative and Finalist of The Iris Prize Grant.



- Presented in international exposure momentums of G20 Indonesia and its engagement groups including T20, Y20 and B20.
- Supported G20 Indonesia's Presidency event series, Y20 and T20, to be carbon neutral through our carbon consulting and offsetting service.
- Featured in notable medias namely National Geographic, SEA News Today, IDN Media Group, Narasi, and One Young World Impact Report.
- CarbonEthics was selected as one of the 3 selected Indonesian startups as NINJA Accelerator 2022 Cohorts among 256 applicants. NINJA (Next Innovation with Japan) accelerator program 2022 powered by JICA (Japan International Cooperation Agency) partnered with ANGIN, is a highly selective initiative aims to support and equip impactful Indonesian startups to face curated investor lists, expand partnership opportunities, and achieve financial support.



2022 Recap

2022 has been a year of growth for us at CarbonEthics. A lot of things happened and here are some highlights.

— Building Relationship with Japan

In 2022, our co-founders, Agung Bimo Listyanu and Jessica Novia, opened relationship with Japanese stakeholders as part of the NINJA Program. We were grateful to Japan International Cooperation Agency (JICA) and ANGIN for trusting us to played a part in this bilateral relationship by supporting both countries on their decarbonization journey through CarbonEthics. As we move forward, we would like to witnessing the world become nature positive and achieve net-zero emissions.



— Rising Interest in Carbon Space

Many sectors, such as customers, government, and start-ups, have shown a growing interest in collaboration to take climate action. 2022 was the third year CarbonEthics strengthened its climate solutions services, ranging from carbon emission calculation, carbon policy and advocacy, to-be-verified carbon projects across the archipelago and climate-friendly travel.



— In-depth Research

We deepened our scientific approach to also testify our impact through numerous publications released with themes from Seagrass, Carbon Stock to Women Empowerment and Ecotourism potential partnering with the Maritime University of Raja Ali Haji, Riau Islands supervised by experts and doctorates.



— Persistent Social Impact

The continued and prolonged social impact is generated through strategic outputs felt by communities in the delineated operations area across four plantation sites and numbers from incremental income and labor absorption. In 2022, a Benefit Sharing Plan for local stakeholders was executed to refurbish a 700m long & 3.5m wide road and has played a major role in supporting the locals' daily activities ever since. To higher levels, we released Carbon Voice Curriculum for inclusive education utilized by The Body Shop Indonesia to raise climate awareness.



— Engage with Government

Carbon Policy Lab is established to examine legal products related to climate, blue carbon and conducted the third annual focus group entitled Warkop Karbon Biru III with the theme “Escalating the Readiness of Blue Carbon Project in Indonesia”. We also successfully promoted a plastic regulation issued by the City’s Mayor of Tanjungpinang into Peraturan Walikota Tanjungpinang No. 14/2022.



— Built Trust

Shown by customer retention and public appraisal, CarbonEthics had the opportunity to speak at G20 Indonesia Presidency and was chosen as The Official decarbonization partner for Y20 & B20. The trust comes from the credibility and accountability of our initiatives until being chosen as the finalist of B20 Sustainability 4.0 Awards for Women in Sustainable Initiative.



Impact & ESG

The following section discloses our impact progress and sustainability efforts to improve business practices related to environmental, social, and governance (ESG) topics.

Our efforts are aimed at driving positive change not only for our company, but also for the environment and all stakeholders involved.

Impact Summary



Global carbon emission is set to hit all-time high records every year, devastating our planet, and affecting 85% of the world's population. Decarbonization efforts aim to help governments, institutions, and businesses to reduce their carbon footprint, achieving net-zero in order to restore the climate balance. Carbon emissions affect the planet significantly.

Carbon emissions are dangerous as they threaten the livelihood of our planet, animals, humans, and ultimately, life. That is why decarbonization through restoration projects is crucial. In CarbonEthics, we pursue our impact targets that contributes to the SDGs for the planet and all beings living inside.

Impact Target



Why Decarbonization Matters?

Global carbon emission is forecasted to hit all-time high records every year, devastating our planet and affecting 85% of the world's population from events such as food crisis, extreme weather, infectious diseases, and many more. Decarbonization should become a priority for governments, companies, and society at large because it plays a very important role in limiting global warming and restoring the climate balance.

Source: Washington Post, 2021

Primary Impact Target

Restoring the Nature for the Planet

Our efforts focuses on nature climate solutions, pioneering in blue carbon ecosystem conservation. In less than 4 years, we have planted more than 145k biotas, including mangrove, seaweed, seagrass, and coral across 4 planting sites in Indonesia thus capable to absorb more than 6.6k tonnes of CO₂e.



Secondary Impact Target

Advancing Social Impact through Empowering Local Communities



CarbonEthics believes in order to save the planet, transforming the socio-economic of coastal communities is an important factor. We continue to provide alternative jobs generated from blue carbon conservation work. Reported from the field by 2022, CarbonEthics' Farmers Incremental Income is 3x times higher than other local people from various operational sites benchmarking from each regional minimum wage.

Involving Grassroots Communities



We put the heart of our work into the most vulnerable communities impacted by climate change, from Riau Islands in the west to Bali in the center of Indonesia, our impact is targeted to coastal communities. Through carbon offsetting and restoration programs, we are aligned to improve livelihood by also opening enormous opportunities to all groups of people unconditionally by promoting inclusivity.

Current Condition

4 Planting Sites across Indonesia :

- ✓ Bintan Island, Riau Islands
- ✓ Kepulauan Seribu, Jakarta
- ✓ Tanjung Pakis, West Java
- ✓ Padangbai, Bali

Total of 63 direct beneficiaries.

Local Authorities and Universities



Believing in the effective participation, we partnered with local government leaders from executive institutions. For higher levels, we target regional governmental services related to the work from the Marine and Fisheries Service and Environment Service. Local universities are also a part of our impact target by providing internship opportunities to support our reasons in supporting young people and a sustainable governance.

Current Condition

Memorandums with Local Stakeholders of Dompok Island (Riau Islands), Tanjung Pakis (West Java), Local university of Raja Ali Haji Maritime and Dinas Lingkungan Hidup and Dinas Kelautan dan Perikanan Kota Tanjungpinang.



Economy: Boosting the Economy Whilst Saving the Planet

CarbonEthics believes in order to save the planet, it's extremely important to work hand-in-hand with the local communities and give them direct economic benefit from the conservation work. In 2022 only, CarbonEthics' farmers get 3.6x higher income compared to regional minimum wage, with 30% of our farmers are women. We also involved 287 youths to take part in climate action cumulatively since 2019.

Impact Framework

CarbonEthics believes in order to save the planet, transforming the socio-economic of coastal communities is an important factor.

We incorporate the United Nations' Sustainable Development Goals (SDGs) to our impact framework to shape, steer, and communicate our activities, strategies, and goals of achieving our vision to inspire and enable climate action, while improving the livelihood of communities and enhancing biodiversity.

*

Goals



Environmental

Targets

Reforestation and conservation of blue carbon ecosystem.

Enhancement of total economic valuation of blue carbon ecosystem.

Restore the climate balance.

CarbonEthics' Initiatives

Planting blue carbon ecosystems.

Securing area of blue carbon plantation.

Researching on biodiversity baseline and post-intervention.

Monitor plants health.



Social

Increase of knowledge regarding blue carbon ecosystem and climate crisis.

Increase of income for direct beneficiaries.

Increase of skills capacity and working tools for beneficiaries.

Increase of trust and partnership for climate peers and institutions.

Creating Carbon Voice Curriculum.

Presence in events related with climate topics.

Empowering local communities as implementation partners.

Providing opportunities and alternative income from environmental jobs.

Series of trainings and workshops.

Collaborating with relevant institutions.



Goals



Governance

Targets

- Increase in public services.
- Pro-environment policies.
- Escalation of government efforts for decarbonization.

CarbonEthics’ Initiatives

- Creating policy brief of recommendation to create Executive or Legislative Laws for climate clusters.
- Signing MoU Agreement with government officials in our conservation sites.
- Pioneering annual policy and advocacy discussion regarding carbon and climate.



Impact in Numbers

Primary Metrics

6.6k

tonnes of CO₂e to be sequestered

7.5_{ha}

Area of plantation

4

Plantation sites

133,907

Mangrove trees planted

3,025

Seagrass seedlings planted

4,650

Corals planted

7,050

Seaweed seedlings planted

Secondary Metrics : Social

382,445

People reached through marketing activities

5,281

Climate action pledges

316,971

Volunteer hours

21,577

People educated on climate change

228

Direct and indirect beneficiaries

234

Medias featuring CarbonEthics

35%

Women beneficiaries

29%

Youth beneficiaries

146

Education and media partners collaborated

Secondary Metrics : Economy Welfare

3.6x

Increase of farmers' incremental income compared to locals, based on regional minimum wage benchmarks



29

Locals employed in green jobs

40

Goods distributed during faith-based celebratory days

205

Partnerships with institutions



Impact Deep Dive:

Environment: Natural Climate Solutions

CarbonEthics aims to restore the climate balance through nature-based solutions with pioneers in blue carbon conservation.

Indonesia currently face pressing challenges regarding climate change. Due to its landscape being an archipelago, several remote areas and islands are more vulnerable to flooding to sea level rise, coastal erosion. This is why it is important for CarbonEthics to work together with local government stakeholders to protect the livelihood of coastal communities.

Local Authorities or Government Affiliated Entities

Natural climate solutions are conservation, restoration, and improved land management actions that increase carbon storage or avoid greenhouse gas emissions in landscapes and wetlands across the globe. Throughout the 4 years of our operation, we've estimated 6.6k tonnes CO₂e to be sequestered through our blue carbon ecosystems plantation programs.

Our plantation sites were located across Indonesia, from Sumatra, Java, and Bali Island. We secured 7.5 ha of land for restoration purposes in Bintan and Tanjung Pakis through agreements with local communities and government officials.

In 2022, we have planted more than 145,000 biotas on blue carbon ecosystems, this includes 133,907 mangrove trees; 3,025 seagrass seedlings; 7,050 seaweed seedlings; and 4,650 baby corals.



“Y20 as an Engagement Group representing the youths of the G20 countries play a crucial part in the stage of global diplomacy. It is imperative that we walk the talk. CarbonEthics came alongside us and provided us with the services and means to do so as one of the Y20 Indonesia 2022's Priority Areas was Sustainable and Livable Planet.

By helping us calculate the event's and delegates' carbon footprint from all over the world and planting mangrove trees with a thorough reporting system and certification system, the Y20 Indonesia 2022 was able to stand tall with integrity and accountability in our stance as youth leaders of today.”

Rahayu Saraswati,
Co-Chair Y20 Indonesia 2022

Impact Partners

CarbonEthics partners with the governments and other stakeholders to bring together diverse expertise, resources, and networks to address complex challenges restoring climate balance through carbon sequestration projects.



Dompak Islands Authorities

“As chief of Kelurahan Dompak representing the Mayor of Tanjungpinang City, I highly appreciate CarbonEthics’ programs in Dompak Island. There have been so many services from planting to sustainable products such as Soap and Batik. We’re grateful for the development and the empowerment until our people can grow and can be more open-minded to change and chance. We hope the efforts will not stop until here but to be continuous as I reflected, Dompak People were once an isolated community because of its separation from the main island of Bintan.

Today our island is a part of the provincial capital and we hope our people can adapt more post CarbonEthics’ intervention. What we overcame is people that do not understand much and we need more collective hard work. We hope for more success and eventually our people can receive the benefit and the lasting impact.”

Honggo Zulfika, S.IP.,
Chief of Kelurahan Dompak, Riau Islands



The Body Shop Indonesia

CarbonEthics with The Body Shop Indonesia conducted a joint campaign titled “Be Seen Be Heard” that helped the company in education around sustainability as one of the first steps to start tackling the climate crisis with customers and youths throughout Indonesia. This campaign allows for The Body shop and CarbonEthics can continue to be part of the solution in overcoming the climate crisis by inviting all people to be active in reducing carbon footprints.

“The Be Seen Be Heard The Body Shop Indonesia campaign with CarbonEthics really helps us in getting education as one of the first steps to start tackling the climate crisis with customers and young people throughout Indonesia. And of course it is hoped that CarbonEthics can continue to be part of the solution in overcoming the climate crisis by inviting all people to be active in reducing carbon footprints.”

Dita Agustia, Corporate Values Manager
The Body Shop Indonesia



Our Other Partners :



WORLD
RESOURCES
INSTITUTE



DANONE
ONE PLANET. ONE HEALTH

Allianz



...and many more.

ESG Overview



We understand that there are critical factors of Environmental, Social, and Governance (ESG) that have an impact on our business and the communities we operate in. In this report, while provide an overview of our ESG performance, please note that **our deep dive highlights specifically on environmental dimension.**



Environment



Social



Governance

Current Initiatives

Advocating for climate to individuals, businesses, and governments through education and conservation of blue carbon ecosystem.

Transforming the socio-economic of coastal communities as the heart of our blue carbon conservation work. We provide training, community development, and give additional income to our farmers from planting trees.

Empowering youth talents inside the organization to shape a sustainable future leaders by honing professional skills and establishing career paths in the environmental and impactful enterprise.

Ways we will explore to increase our impact even further

- Exploring Agriculture, Forestry and Other Land Use (AFOLU) for potential Verified Carbon Project.
- Elevating and leveraging partnership with Ministry of Environment and Forestry (MoEF) for strategic collaboration to achieve National Determined Contribution (NDC).

Integrated exit strategy for community independency post CarbonEthics intervention.

Improving CarbonEthics projects MRV (Measurement, Reporting and Verification) to increase project and impact transparency and validity.

ESG Deep Dive: Environment: Carbon Emission

Carbon emissions have been a significant issue globally, leading to climate change and its devastating effects. Governments, industries, and individuals must take action to limit carbon emissions and restore the planet for future generations. Tracking a company's carbon footprint is crucial for several reasons. For CarbonEthics, it helps us to:

- ✓ Identify the environmental impact of our operations and be accountable for it.
- ✓ Comply with regulations, certifications, and standards related to environmental sustainability.
- ✓ Saving costs as it resulted in energy reduction and improved efficiency.
- ✓ Instill a good case practice to our partners in raising awareness and taking action to reduce and absorb what's left.

What we aim ahead

- ✓ Accelerate and unlock the Supply of Natural Climate Solutions.
- ✓ Collaborate & create partnerships with more institutions to achieve Net Zero Target.
- ✓ Improve MRV (Measurement, Reporting, and Verification) to increase project and impact transparency and validity

“This is an opportunity to emphasize the enormous potential of Indonesia’s marine economy.

Which, if utilized optimally, will contribute significantly to the recovery and transformation of the nation’s economy, especially to increase employment productivity, & added value to the economy.”

— **Amalia Adininggar Widyasanti**

The Ministry of National Development Planning / Bappenas’ Deputy for Economic Affairs, said at Indonesia G20 side event on Blue Economy roadmap in Belitung (6/9/2022).





National Standardization

The National Registry System



The National Registry System of the Ministry of Environment and Forestry of the Republic of Indonesia is a comprehensive database that stores information on various aspects of the country's natural resources, including forests, land, water, and biodiversity. The system is crucial in facilitating the management and conservation of Indonesia's natural resources, providing accurate and up-to-date information to policymakers, researchers, and the public. The National Registry System also supports the government's efforts to combat illegal logging and promote sustainable forestry practices by enabling the monitoring of timber production and trade.

Additionally, the system plays a crucial role in supporting the implementation of Indonesia's commitments to international climate change agreements by providing data on greenhouse gas emissions and forest cover changes based on Presidential Decree No.98 Year 2021. Indonesia is committed to reducing carbon emissions to maintain global temperature rise by increasing the Enhanced Nationally Determined Contribution (E-NDC) target to 32% or the equivalent of 912 million tons of CO₂ in 2030.

Methodologies

To increase transparency and quality of data collection on emission reductions from mitigation actions, both emission calculations, validation and verification, some methodologies are in place in National Registry System website as a reference for calculating achievements in reducing GHG emissions and increasing carbon absorption at the activity level in the energy, transportation, industrial process sectors and product use (IPPU), forestry, agriculture, and waste. This collection of Methodologies has been reviewed by the Methodology Panel Team and has been stipulated through a Decree of the Director General of Climate Change Control.

Specific to the Blue Carbon Ecosystem of Mangroves, the registered projects will be transcribed and accounted for inside Indonesia's Mangrove National Map (PMN - Peta Mangrove Nasional) and will also be calculated as Indonesia's E-NDC contributors. CarbonEthics' mangrove restoration projects are along the way to be part of the endeavor.

Validation & Verification

Independent Validation and Verification Institutions (LVV) are institutions certified by the National Accreditation Committee (KAN Certification - Komite Akreditasi Nasional). For the means of implementation, the NDC reflects the most recent data and information, analysis, and scenario for possible future by the Government of Indonesia. As a developing country, Indonesia will likely experience dynamic changes due to national and global economic changes. In this regard, the NDC will be reviewed and adjusted, as necessary, considering national circumstances, capacity and capability, and the provision under the Paris Agreement.

As part of the implementation of Article 13 of the Paris Agreement, Indonesia applies an Integrated National Transparency framework through (a) National Registry System (Id. Sistem Registry Nasional/ SRN) for mitigation, adaptation, and means of implementation of both national and international sources; (b) National GHGs Inventory System (SIGN-SMART); (c) MRV system for mitigation including REDD+, (d) Safeguards Information System for REDD+ (SIS-REDD+); and (e) Information Systems on Vulnerability (SIDIK) and joint adaptation and mitigation at the Village level (ProKlim).

What's Next?

What's next for CarbonEthics?

As we look toward the future, we are determined to push ourselves to new heights in restoring the climate balance. 2023 is the year that we're braving ourselves to escalate our impact even further by becoming an Impact Enterprise. This move reflects our commitment to scaling our impact and broadening our reach.



Escalating Climate Solutions to Global Landscape

With the urgency of the global climate crisis increasing, there is a pressing demand for carbon emissions reduction, and we are committed to meeting this challenge head-on. Keeping a close eye on global trends, we're constantly developing our services to ensure that we're able to meet the growing needs of our planet. This year we are expanding our reach beyond

Indonesia to global markets, aiming to accelerate the supply of natural climate solutions due to the increasing Net Zero commitments by corporations and governments worldwide.

Accelerating and Unlocking the Supply of Natural Climate Solutions

We are committed to focusing our services on natural climate solutions that absorb and remove carbon from the atmosphere, such as mangroves and seagrass, while also exploring new possibilities in green ecosystems. To optimize the conservation and ensure quality at every stage, we expand our services from carbon project operator to originator. We acknowledge that efficiency and transparency are crucial for conservation implementation, thus we are ensuring tech-

enabled processes in our restoration efforts. We do this through community-based conservation models that aim to help more communities benefit from the creation and preservation of their natural resources. Additionally, our focus on natural climate solutions not only benefits the environment but also promotes biodiversity and supports the preservation of vital ecosystems.

Scaling Our Impact on Empowering Local Communities

Community is always at the heart of our conservation work. This year we are expanding our reach to help more local communities while promoting sustainable livelihoods. We also aim to generate more green jobs to generate more climate rangers and local farmer's partners. To ensure that our business practices align with our values, we plan to apply for B-Corp certification, which helps us to continuously improve our social and environmental standards and hold

ourselves accountable for our actions. We're also collaborating with government and corporate partners to support Indonesia's FOLU Net Sink 2030 initiative, ensuring that our work has a long-term community impact.



“CarbonEthics is excited to continue pushing the boundaries of climate restoration and conservation efforts in the coming year. Together, we can make a positive impact on our planet and ensure a sustainable future for generations to come.”



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