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INTERNATIONAL
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on the basis of a decision
by the German Bundestag

IKI Newsletter Indonesia

21ST EDITION



June 2023

About the International Climate Initiative

The International Climate Initiative (IKI) is an important part of the German government's international climate finance commitment. Since 2022 the IKI is implemented by the Federal Ministry for Economic Affairs and Climate Action (BMWK), the Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV) and the Federal Foreign Office (AA). Through the IKI, the ministries jointly support approaches in developing and emerging countries to implement and ambitiously develop the Nationally Determined Contributions (NDCs) anchored in the Paris Agreement. This includes measures to adapt to the impacts of climate change and to conserve and rebuild natural carbon sinks, taking into account environmental, economic and social concerns. The IKI also supports its partner countries in achieving the goals of the Convention on Biological Diversity (CBD). The three ministries jointly agree on the basic IKI framework. This includes the instruments that help ensure and verify the values and responsibilities of the IKI, the various funding calls and external communication.

The activities from [IKI projects](#) range, for example, from advising policy makers on capacity building and technology partnerships to risk hedging through innovative financial instruments. It also includes studies, project preparation advice for infrastructure development, and investment instruments for climate change mitigation or biodiversity conservation.

To date, IKI has approved more than 950 climate and biodiversity projects in over 150 countries worldwide with a total funding volume of almost 6 billion euros (2008-2022).

IKI finances projects run by organisations that implement measures together with developing, emerging, and transitional countries within the four IKI funding areas: mitigating greenhouse gas emissions; adapting to the impacts of climate change; conserving natural carbon sinks with a focus on reducing emissions from deforestation and forest degradation (REDD+); and conserving biological diversity. Many projects normally involve more than one funding area.

More information is available on the [IKI website](#).

Policy Highlights

JETP (Just Energy Transition Partnership)

In November 2022, the Just Energy Transition Partnership (JETP) was launched by the Indonesia Government and the International Partners Group (IPG), co-led by the United States and Japan, and including Canada, Denmark, the European Union, France, Germany, Italy, Norway, and the United Kingdom. The JETP combines public and private investments to assist with climate financing, particularly to transition energy generation away from fossil fuels. In addition to driving energy transition, the JETP model seeks to promote the green economy and address the economic and social needs of communities that are vulnerable to the effects of energy transitions. To achieve these targets, an initial USD 20 billion in public and private financing over a three-to-five-year period will be mobilized and deployed through the coordination of the JETP Secretariat.

In February 2023, the JETP Secretariat was inaugurated, as part of a week-long series of events and planning meetings for this ground-breaking initiative. Edo Mahendra has been appointed as Head of the Secretariat, which is hosted in the Ministry of Energy and Mineral Resources (MEMR) and is supported by the Asian Development Bank. The Secretariat will serve as coordination unit for internal and external stakeholders on the JETP and will also play an important planning and project development function for the JETP.

Currently, the JETP Secretariat is preparing an Investment and Policy Plan that is expected to be finalized by August 2023, with support from international partners, to define pathways to achieve new and accelerated targets.

JETP Working groups' updates: the JETP Secretariat is currently preparing an umbrella Non-disclosure Agreement (NDA) with PLN, listing all their working group members to ease data sharing and further support the analysis. Some development partners have raised their concerns for it not being specific enough. Just transition WG: The JT WG and the Policy WG held a discussion on preliminary findings of local content requirements in Indonesia, particularly on the Solar PV industry. Easing local content targets would not diminish job creation, instead attract investment and thus create jobs. Finance WG: PLN conducted the JET Investment Forum on De-dieselization program on 19 May, inviting banks and government representatives.

In the 7th Session of the G7 Summit in Japan in May 2023, President Jokowi demanded from "developed countries" to disburse the energy transition fund in the specific form of non-loan international development funding, as agreed to in previous high-level talks.

Media reporting has been taking a more nationalistic tone towards energy transition, claiming energy transition to be a "political agenda" as opposed to being an environmental or human need, quoting several local and international experts. With the political campaigns for the upcoming general elections starting, an increased intensity of this narrative is to be expected, as this may empower coal lobbies and may influence how regulations and structures are shaped, such as the further operationalization of the renewable energy bill.

In recent international fora, representatives of civil society pointed out the need to increase the participation and involvement of civil society at the grassroots level in energy transition programs. This was highlighted by the Head of the Institute for Essential Services Reform (IESR), Fabby Tumiwa, as a direct call addressing hopes about how Indonesia's ASEAN chairmanship should be shaped.

Strategic Environmental Assessment of the new Long-term development plan (RPJPN) 2025-2045

For the first time ever, Indonesia will include a Strategic Environmental Assessment (KLHS) into the long-term development plan (RPJPN) 2025-2045, thereby integrating sustainable development principles into the planning instruments.

After an initial preparation process of the KLHS, Bappenas has held a public consultation to discuss the progress of the development of the KLHS RPJPN 2025-2045 on 31 May 2023 in Jakarta. Medrilzam, Director of Environment at Bappenas, highlighted how crucial it is to integrate sustainable development principles into RPJPN 2025-2045, where the KLHS could act as the main tool to make it happen. Significant recommendations on the aspects of policy, planning, and program within the KLHS have been discussed with some scenarios and targets. In this context, some priority sectors such as climate change, green economy, energy transition, agriculture, forestry and land-use, disaster resilience, pollution, and environmental degradation as well as biodiversity have been identified for KLHS, to be integrated in the draft RPJPN 2025-2045.

Launching of the new Long-term development plan (RPJPN) 2025-2045

Bappenas is currently drafting the National Long-Term Development Plan (RPJPN) 2025-2045 bill. It is foreseen for the House of Representatives to deliberate the bill soon and pass it in September 2023, before registration opens for presidential and vice-presidential candidates. Generally, the RPJPN bill contains five goals from Golden Indonesia 2045, such as increasing the income per capita; eliminating poverty and reducing inequality; increasing international leadership and influence; increasing competitiveness of human resources; and net-zero greenhouse gas emissions.

Guidelines of Carbon Economic Value Implementation

The Minister of Investment, Bahlil Lahadalia, stated that carbon trading in Indonesia is open to all business actors, which should first register through the Ministry of Environment and Forestry (KLHK). He explained that carbon trading governance is carried out on carbon exchanges. It will be supervised by the Financial Services Authority (OJK). The OJK is still preparing mechanisms and regulations, including waiting for tax imposition provisions related to carbon exchanges.

KLHK is the designated institution to carry out the registration and certification of carbon trading prior to conducting carbon trading on the carbon exchange.

Recently, the Ministry of Environment and Forestry (KLHK) issued the Ministerial Regulation of Environment and Forestry No. 21/2022 on the Guidelines of Carbon Economic Value Implementation. The regulation specifies the provisions for the execution of NEK (carbon pricing). This regulation has cemented the initial step of the Indonesian carbon exchange development. In particular, this could open up further opportunities for linkages between climate change adaptation and mitigation actions.

The most recent Position Paper by KLHK seeks to clarify the regulatory framework of the Indonesian carbon market and to open the market for international trade.

EU deforestation-free regulation (EUDR)

A delegation of government officials from Indonesia and Malaysia met leaders of the EU Commission in Brussels to clarify the two countries' position on the EU Deforestation Regulation (EUDR), which impacts the trade of commodities such as cocoa, coffee, wood, and palm oil. The delegation was led by Indonesia's Coordinating Economic Minister Airlangga Hartarto and Malaysian Deputy Prime Minister and Plantation and Commodities Minister Dato' Sri Haji Fadillah Bin Haji Yusof.

The delegation discussed the impact of EUDR on smallholders in the supply chain, acceptance of the national sustainable certification schemes, the law's benchmarking system geolocation, as well as land legality and traceability, according to the Council of Palm Oil Producing Countries (CPOPC).

One of the main concerns is the potential exclusion of smallholder farmers from accessing the European market, as they might not be able to fulfil the requirements of proof of land legality and the geographical location of their plantations. There are concerns in the EU and in Indonesia that the dispute might hamper the timely conclusion of the EU-Indonesia Free Trade Agreement, which is expected to be signed still this year.

New General Director of Natural Resources and Ecosystem Conservation, MoEF

The Minister of Environment and Forestry, Dr. Siti Nurbaya Bakar, officially inaugurated the new Director General of Natural Resources and Ecosystem Conservation, Prof. Dr. Satyawan Pudyatmoko in May 2023. The Minister mandated Prof. Satyawan to transform the governance of landscape-based conservation areas, ecosystems, and communities, including strengthening the management of conservation areas through resource-based management (RBM) at site level. Additionally, he will continue to oversee the amendments to Law 5/1990 on Natural Resources and Ecosystem Conservation. Prof. Satyawan is a lecturer at the Faculty of Forestry, Gajah Mada University. Prior to his current position, he served as the Deputy of Planning and Evaluation at the Peatland and Mangrove Restoration Agency (BRGM).

IKI News

IKI Independent Complaint Mechanism

The IKI Independent Complaint Mechanism (IKI ICM) is intended to enable people who suffer (potential) negative social and/or environmental consequences from IKI projects, or who wish to report the improper use of funds, to voice their complaints and seek redress. In doing so, it should also contribute to monitor and improve the environmental and social outcomes of projects, avoid unintended negative impacts of projects that go unnoticed by ZUG and BMWK, BMUV and AA, support the appropriate use of public funds, and comply with international good practices.

The IKI ICM is fully operational since November 2022 and IKI projects are expected to inform project partners and project beneficiaries about their right to use the mechanism. Click [here](#) to know more about the IKI ICM.

IKI Round-table Exchange and Workshop

The IKI-Hub Indonesia organized a Round-table Exchange with IKI project implementers on 22 May 2023. A total of 48 participants from different organizations implementing IKI-funded projects had an opportunity to share updates, challenges, success stories, as well as to identify synergy opportunities for collaboration.



Warthane Puvanarajah, Head of Climate and Environment at the German Embassy in Indonesia stated in her welcome speech that IKI implementers are encouraged to further integrate climate and biodiversity actions for social and economic development.

Gerd Fleischer, principal advisor of the interface project Climate and Biodiversity Hub Indonesia emphasized that the IKI-Hub Indonesia would strive to stimulate collaboration, and networking across all implementing partners.

From the exchange and following discussion, it became clear that most of the organizations experience similar challenges in project implementation. The IKI Hub will take these conclusions up at the next Networking Workshop in October, where they will be thoroughly discussed.

In the second part of the event, the IKI-Hub held the Thematic Workshop on Biodiversity, in commemoration of the International Day of Biodiversity, with the participation of 24 IKI-funded projects working in this topic. At this occasion, Elke Steinmetz, Head of International Cooperation on Biodiversity at BMUV, has reflected on the support of IKI in the management of biodiversity in Indonesia, followed by a series of presentations and discussion on the Global Biodiversity Framework and the formulation of the new NBSAP. Three IKI implementers, Konservasi Indonesia, Frankfurt Zoological Society (FZS), and ICRAF, shared their lessons learned while implementing biodiversity projects.

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IKI Project Highlights

100-ha benchmark achieved for the reforestation period 2022/23

KfW and Frankfurt Zoological Society (FZS)

In May 2023, KfW and Frankfurt Zoological Society (FZS) reached the 100-ha benchmark for the 2022/23 reforestation period in Bukit Tigapuluh National Park. The enrichment planting with multiple-purpose trees was carried out by the Sepenat Alam Lestari Forest farmer group (KTH). Planting multipurpose trees, mixing fruit trees, timber trees and pole trees to support vanilla and pepper production was recommended to diversify income while increasing biodiversity. The East Tebo Forest Management Unit has recognised the project as its first successful pilot project for social forestry.

Final International Workshop of SNAPFI

DIW and the Bandung Institute of Technology Climate Change Center (CCC-ITB)

The project "Strengthening national climate policy implementation: Comparative empirical learning & creating linkage to climate finance" (SNAPFI) organized a final international Workshop, which was held online on 11-12 May 2023. The Workshop was attended by more than 25 participants, from different partners, namely Climate Strategies, German Institute for Economic Research (DIW), the Center for Sustainability Studies of Fundação Getulio Vargas (FGV), Institute for Climate Protection, Energy and Mobility (IKEM), Climate Change Center, Institute of Technology Bandung (CCC ITB), NewClimate Institute, The Energy and Resources Institute (TERI) and University of Cape Town (UCT). One of the workshop's outcomes was the appointment of CCC-ITB to host the Joint Work on synthesis report year-4 next September 2023.

Contribution on the Peat Ecosystem Protection and Management Plan (RPPEG) documents in OKI, Kubu Raya, and West Kalimantan Province

World Agroforestry (ICRAF)

Peat IMPACTS is expediting the preparation of RPPEG documents in OKI, Kubu Raya, and West Kalimantan Province using recently received peatland data from the Ministry of Environment and Forestry (MoEF). Several stakeholders in Kubu Raya have signed a cooperation agreement leading to the implementation of agreed business models. On the other hand, Peat IMPACTS, in collaboration with the Province of South Sumatera, has launched a local content curriculum for elementary schools, focusing on the watershed and peat areas of South Sumatra, incorporating specific local context topics.

Contribution to the Peat Ecosystem Protection and Management Plan (RPPEG) documents in North Sumatera Province

Konservasi Indonesia

The IKI PME project supported the Peat Ecosystem Protection and Management Plan (RPPEG) document of North Sumatera (NS), which is under technical review at the Ministry of Environment and Forestry (MoEF). It aims to protect and manage 526,701 hectares of peatland in NS, which currently 99.76% of ecosystem in the protective and cultivation areas are in damaged condition (North Sumatera RPPEG 2023). The NS's government takes ownership and commits to completing the process and the legalization of the document.

INTERNATIONAL CLIMATE INITIATIVE (IKI) IN INDONESIA

46 Projects under Implementation

22 Implementing
Organisations



19 Political Partners

Coordinating Ministry of Economic Affairs
Ministry of National Development
Planning (Bappenas)
Ministry of Environment and Forestry
(KLHK)
Ministry of Energy and Mineral Resources
(ESDM)
Ministry of Finance
Ministry of Industry
Ministry of Marine Affairs and Fisheries
Ministry of State-Owned Enterprises
(MSOE)
Executive Office of the President of the
Republic of Indonesia

Peatland and Mangrove Restoration
Agency (BRGM)
Association of Southeast Asian Nations
(ASEAN)
National Park Authority of Bukit Barisan
Selatan (BBS)
Provincial Government of Lampung
Provincial Forestry Service of Jambi
Provincial Marine and Fishery Service of
Aceh
Provincial Marine and Fishery Service of
North Sulawesi
Provincial Marine and Fishery Service of
West Nusa Tenggara
District Government of Pesisir Barat
District Government of Lampung Barat

Adelphi Research Gemeinnützige
GmbH
Agence Française de Développement
(AFD)
Asian Development Bank (ADB)
Center for International Forestry
Research (CIFOR)
Conservation International (CI)
Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ)
GmbH
Deutsches Institut für
Wirtschaftsforschung e.V. (DIW)
ICLEI - Local Governments for
Sustainability
International Council on Clean
Transportation (ICCT)
International Institute for Applied
Systems Analysis (IIASA)
KfW Entwicklungsbank
The Organisation for Economic Co-
operation and Development (OECD)
Perkumpulan Desa Lestari
Perspectives Climate Group GmbH
Renewables Academy AG (RENAC)
Secretary of Convention on Migratory
Species Office (CMS)
United Nations Development
Programme (UNDP)
United Nations Environment
Programme (UN Environment)
United Nations Office for Project
Services (UNOPS)
World Agroforestry Centre (ICRAF)
World Bank Group
World Wide Fund for Nature (WWF)

CLIMATE SITUATION IN INDONESIA

ADAPTATION

Climate Change Impacts



MITIGATION

Greenhouse Gas (GHG) Emissions



FORESTRY / REDD+

3rd in the world on the list of countries with the largest extent of rainforest

Nearly 11% of Indonesia's total land area is covered by peatlands

40% of Indonesia's total carbon emissions are the result of peatland conversion

\$16 billion estimated economic loss due to peat fires in 2015 according to the World Bank

Deforestation and land-use change have driven around 80% of Indonesia's greenhouse gas emissions

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BIODIVERSITY

1st on the World's 17 Megadiverse Countries list

2nd on the World's 25 Biodiversity Hotspots list

18 on the WWF 'Global 200' Ecoregions list

24 on Bird Life International's Endemic Bird Areas list

566 national parks covering 36,069,368.04 hectares: 490 terrestrial protected areas and 76 marine protected areas

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IKI Gender Updates

IKI initiated measures to integrate gender as a factor at project and programme level in 2017. Since November 2021, the [IKI Gender Strategy](#) has provided a high-level framework for supporting and fostering gender justice. This strategy aims to promote gender-transformative approaches within international climate and biodiversity cooperation while embedding gender-responsive processes as a minimum standard at project level.

This requires IKI projects to ensure the avoidance of gender-based disadvantages and discrimination. A targeted approach to accommodating context-specific gender relations will be used to improve activities in relation to climate action and biodiversity conservation.



Gender Updates

Boosting household income: local female farmer groups in Bukit Tigapuluh National Park begin growing pepper

By KfW and [Frankfurt Zoological Society \(FZS\)](#),
Nature conservation concessions to protect
tropical rainforest in Indonesia

As part of the ecosystem restoration programme in the Bukit Tigapuluh Landscape, Jambi, Frankfurt Zoological Society supports the **BINA LESTARI** women's group in Muara Sekalo. The focus of this year's programme is on the establishment of a community seedling garden for the cultivation of pepper as a contribution to the long-term increase of household income.



'Spice girls' of the Female Farmer group in Muara Sekalo harvesting vegetables (FZS/Daniel Rosengren).

Half an acre of a local garden was provided by a local farmer to set up the nursery. Instead of distributing the seedlings directly to members as a one-time donation, the project set up a community group that meets twice a week to contribute to community work at the nursery, where they receive seedlings in exchange for working to grow pepper around their homes.

As it takes three years for pepper to be ready for harvest, FZS encourages vegetable growing as intermediate crops to generate a small income every eight weeks. So far, the members of BINA LESTARI are enthusiastic to participate in the programme.

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Cahaya Lele's women business group in North Sumatera

By Konservasi Indonesia, IKI-PME Project -
Livelihood in Muara Ampolu, South Tapanuli
Regency, North Sumatra Province, Indonesia.

A series of livelihood trainings that engage women business groups has become one of key activities under IKI-PME (Peat and Mangrove Ecosystem) project. **Cahaya Lele (a light of catfish)** is one of alternative livelihood group aims to generate more income for the family and is managed by local women in Muara Ampolu, South Tapanuli Regency, North Sumatera. This group is led by Jeriana Harahap, who is managing other 15 female members.

Jeriana is involved in most of the operational management, ranging from administration and finance, business process and planning, communications, and coordination. Beyond that, she also advocates on the importance of livelihood and maintains the relationship with relevant stakeholders to gain advice and insights.



Catfish-pond of Cahaya Lele, IKI-PME Project in Muara Ampolu (Konservasi Indonesia/Fadli).

The knowledge that she shares with her group are lessons from the livelihood training delivered by IKI-PME (Peat and Mangrove Ecosystem) project. To date, **Cahaya Lele** group has been growing and generating an additional income for members. They also plan to do business expansion e.g., building small shops to sell the catfish and its derived products, and developing market chains for these.

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Gender Updates

Women Homestay Group Manages the Bahoi Ecotourism Village to Improve their Livelihood

By CMS/UNEP and [YAPEKA](#) - Conservation of biodiversity, seagrass ecosystem and their services-safeguarding food security and resilience in vulnerable coastal communities in a changing climate



Community discussion between Bahoi Homestay Group, Village Officials, and YAPEKA-Blue Ventures team (YAPEKA/Bonnke Sagai).

Bahoi is widely known as one of the first ecotourism destination villages in North Minahasa, North Sulawesi Province. In Bahoi, homestays play an important role in supporting ecotourism by providing hospitality services and an opportunity to experience the local cultures and culinary as part of the ecotourism program. These homestays are currently managed by a local community group established by YAPEKA in 2022 through community's facilitation programme.

The homestay group has been growing and counts now around 90% female member (14 females and 1 male). In terms of activities, the group does not only focus on operational, but also, contributes to the moderation of homestay pricing, mediation of internal conflicts, and monitoring & evaluation of members' performance based on agreed SOP and review/input from guests. Before managing the homestay and joining the group, most women in Bahoi were full-time housewives, others were teachers and sellers.

Nowadays, YAPEKA is in the process of creating a business model that will provide financial support for the local conservation activities, where this

women homestay group will also play a vital role in contributing towards the livelihood of women members and the sustainability of its surrounding.

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"Forest Needs More Women": The Batin Sembilan Women Rangers of the Forest:

By KfW and Burung Indonesia - Hutan Harapan, the Consolidation of Ecosystem Restoration Concession (ERC)

Bi Teguh, a representative of the Batin Sembilan Women Ranger group, protested when the forest protection patrol activities only involved men.

She argued that most of the activities of Batin Sembilan women already took place in the forest, like collecting resin, fishing, collecting rattan, tapping rubber latex, and gardening. Therefore, undoubtedly, these women should also be involved in forest protection activities.



Since 2022, Bi Teguh and other female members of Batin Sembilan have started to join the Hutan Harapan Community Warden group along with the Harapan Forest protection team. Carrying their duties proudly, Batin Sembilan Women Ranger has contributed to prevent illegal activities and encroaching in the protected forest through advocacy, open dialogue, and negotiation.

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Human Impact Stories

Every human brings a unique and powerful story including people we engage with. It could be a member/head of local communities, governments, researchers, or any individual that shared the same spirit of protecting our environment.

This section brings the human perspective to the stories on how our contribution changes their life and surroundings. With storytelling and visualisation, it is expected that the stories will go beyond numbers and touch a million hearts.



Human Impact Stories

Bi Masna and the Malay and Batin Sembilan Communities: “We can fish because we protect the forest”

By KfW and Burung Indonesia - Hutan Harapan, the Consolidation of Ecosystem Restoration Concession (ERC)

At five o'clock in the late afternoon, the Hutan Harapan Community Partnership and Communication team arrived to Bi Masna's hut, located by the Kapas River in the Musi Banyuasin Regency, South Sumatra in October.

"I want to check the fishing net I set up yesterday. You want to come?" asked Bi Masna. Without thinking twice, we nodded and eagerly accepted Bi Masna's offer. We boarded a small boat commonly known as a *getek* owned by Bi Masna.



Bi Masna collecting fish from her net on the Kapas River (Burung Indonesia/Saleksa)

Along the way, Bi Masna recounted the tradition of catching fish for the Malay people who live along the riverbanks. "When we were young, we could cast nets every day," recalls Bi Masna.

Bi Masna and her community now only cast their nets about twice a week catching no more than a kilo of fish as farming activities now occupies most of their time. Based on the research of Dr. Tedjo Sukmono, a researcher at University of Jambi, there are 123 fish species with endemic and new species live in Hutan Harapan.

"The fishes we catch we eat at home, we do not sell it" said Bi Masna. Apart from her experience, many other women in Hutan Harapan go fishing every day in order to meet the protein needs of their families.

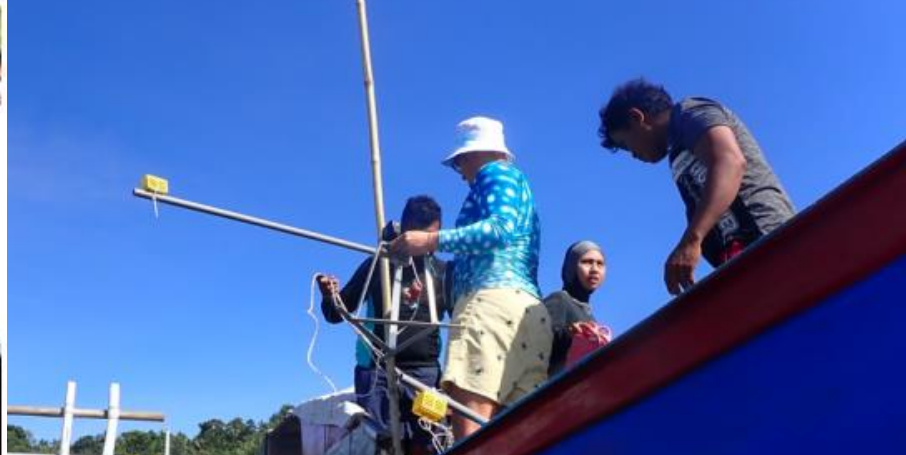
Mat Serampang (Masna's husband) pointed out "If the forest is not there, the river will recede and there will be no more fish for us to eat," he concluded.

Bi Masna and the Malay community living along Sungai Kapas are very much aware that protecting Hutan Harapan also means protecting food sources and people's lives.

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Updates from ongoing IKI projects in Indonesia





Climate Policy

Bappenas prepares Strategic Environmental Assessment for the Long-Term National Development Plan 2025-2045 through series of discussions and consultation with multi-stakeholders

By GIZ – Climate and Biodiversity Hub (ClimB Component)



Opening remarks from Bappenas Deputy Minister for Maritime Affairs and Natural Resources, Vivi Yulaswati, at the kick-off event of the KLHS RPJPN 2025-2045 development, 26 January 2023.

The Ministry of National Development Planning/Bappenas began the preparation of the Strategic Environmental Assessment (KLHS) as the initial process of preparing the Long-Term National Development Plan (RPJPN) 2025-2045, in accordance with the mandate stated in Law No. 32/ Year 2009 on Environmental Protection and Management, particularly in the Article 15, as well as in the Government Regulation Number 46 Year 2016 on Procedure for Conducting Strategic Environmental Assessment, particularly in Article 2(a).

The kick-off event for the development of KLHS RPJPN 2025-2025, held in January 2023, was facilitated by GIZ through Climate and Biodiversity Hub Indonesia. The meeting aimed to collect inputs and feedback on the sustainable development strategies for the next 20 years.

The KLHS development is conducted in an inclusive, participatory, and transparent manner, engaging various parties, such as;

ministries/agencies, private sectors, academics, and non-governmental organizations. Different environmental topics were discussed in the kick-off event, for instance, climate change, pollution, and environmental damage, as well as biodiversity loss, which is known as the Triple Planetary Crisis.

This process is still ongoing and a public consultation to discuss the progress of the development of the KLHS RPJPN 2025-2045 was held on 31 May 2023, as informed in the “Policy Highlights” section of this newsletter.

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Indonesia x Malaysia Exchange Program: New insights and perspectives on eco-label and green/sustainable public procurement

By GIZ - Scaling Sustainable Consumption and Production: Ecolabelling and Sustainable Public Procurement for a Low-Carbon Pathway in ASEAN (Scaling SCP)

GIZ has completed a 5-day peer-to-peer exchange program between Indonesia and Malaysia on eco-label and green/sustainable public procurement (G/SPP) on 6 – 10 March 2023 in Kuala Lumpur, Malaysia.

This exchange program was expected to provide opportunities for all project partners to listen and learn from the other country modules on eco label development and implementation for more impactful products and scaling the impact of G/SPP.

Moreover, this exchange also served as a follow-up action toward proposed recommendations from the previous Scaling Sustainable Consumption and Production (SCP) Planning Workshop held in Bali, Indonesia last October 2022.



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18 Indonesian delegates joined the program together with the representatives from SIRIM and MGTC, Malaysia.

The program was opened by Ms. Yeri Permata Sari, Head of Centre for Facilitation of Implementation of Environmental and Forestry Instrument Standards (Pusfaster) under the Ministry of Environment and Forestry (MoEF) and Ms. Isnazunita Ismail, General Manager Environmental Technology Research Centre, SIRIM Berhad. Both speakers emphasised the importance of capacity development process that both individual and organizations collectively unleash, strengthen, create, adapt, and sustain.



The peer exchange program was divided into eight (8) main sessions: (1) type-1 eco label introduction in Indonesia and Malaysia; (2) standardization and certification process; (3) the development of product criteria standard and its flow; (4) My Relamp pilot project; (5) life cycle analysis (LCA) in Indonesia and Malaysia; (6); carbon labelling scheme including core processes; (7) [MY Hijau](#) and [Indonesian GPP: Sibarjasramling](#); and, (8) eco-benchmarking and e-procurement tools. Not only having interactive discussions, but the program was also complemented by visiting SIRIM's Laboratories.

Apart from onsite participation, the program also welcomed speakers and participants to join the exchange virtually. Some experiences and lesson learned were shared by the Environmental Protection and Sustainable Development, Inc (PCEPSDI), Philippines and Japan Environment Association (JEA).

According to the feedback collected at the end of program 75% participation stated that this program contributed with new insights on the eco-label and G/SPP, while other 25% stated that they gained new relevant knowledge for their work.

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[Scaling SCP Project](#)

Towards Low-Carbon Housing Construction in Indonesia through Material Efficiency Strategies

By GIZ - Initiative for Resource Efficiency and Climate Action (IREK II)



Group Photo of the Resource Efficiency and Climate Change Workshop.

On 8 March 2023, the workshop “Resource Efficiency and Climate Change: Material Efficiency Strategies for a Low-Carbon Future in Indonesia” successfully took place with the total of more than 30 representatives from relevant



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ministries, private sectors, researchers, and civil society organisations. The workshop facilitated discussion and networking with the focus on material efficiency strategies in the housing construction sector in Indonesia.

During the workshop, participants were showing their interest in discussing proposed material efficiency goals and prioritised actions to enable the residential building construction for improving material efficiency and reducing emissions. Participants were also engaged in verifying the practicality of a potential roadmap based on the prioritised actions. The results of the discussions will serve as a basis to further develop the policy roadmap for material efficiency strategies in the housing construction sector and convert it into a national policy document for Indonesia.

The workshop is part of the cooperation between the International Resource Panel (IRP) and the global project "[Initiative for Resource Efficiency and Climate Action \(IREK II\)](#)", which aims to strengthen key players from the public and private sector in Indonesia to increase resource and material efficiency in the industry.



Participants discussing one of the goals and its prioritized actions during the workshop.

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The preparation phase of Urban-Act project is now launched.

By GIZ – Urban-Act: Integrated Climate Action for Low-Carbon & Resilient Cities (Urban-Act)

The regional workshop on project planning and cohesive team environment has been held on 20-24 March 2023 in Bangkok. The workshop was attended by 15 consortium partners consisting of GIZ project team from China, India, Indonesia, Philippines, and Thailand, the United Cities and Local Governments Asia-Pacific (UCLG ASPAC), The Economic and Social Commission for Asia and the Pacific (ESCAP), University of Stuttgart, and TU Dortmund University. This planning workshop remarks the preparation stage of Urban-Act project.



The [Urban-Act](#) project supports a transformation of urban development in China, Indonesia, Philippines, India and Thailand towards low-carbon and resilient development. It is expected that the project will create an enabling condition for planning and implementation of evidence-based and inclusive urban climate actions through:

1. Institutional development for climate-sensitive urban development;
2. Evidence-based climate-sensitive spatial and urban planning;
3. Project identification and leveraging finance for urban climate actions; and
4. Capacity development, knowledge transfer and networks.



Climate Policy



To synchronize with regional and national planning, each country team presented their workplan based on the achievement of country indicators as well as identified areas of support from international and regional consortium partners. Based on observation and conclusion, the workshop has contributed to strengthening the commitment of consortium partners as well as shaping the same understanding towards key takeaways and required follow-up actions in the future.

The Urban-Act is funded by the German Federal Ministry for Economic Affairs and Climate Action (BMWK) through the International Climate Initiative (IKI). The project is implemented by GIZ together with consortium partners and runs from October 2022 until September 2026.

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Urban-Act Project co-hosted side-event of the 10th Asia Pacific Forum on Sustainable Development

By GIZ – Urban-Act: Integrated Climate Action for Low-Carbon & Resilient Cities (Urban-Act)

The 10th Asia Pacific Forum on Sustainable Development (APFSD10) took place from 27-30 March 2023 in United Nations Conference Centre (UNCC), Bangkok, Thailand. The topic for this 2023's forum was “**Accelerating the recovery from the coronavirus disease (COVID-19) and the**

full implementation of the 2030 Agenda for Sustainable Development at all levels in Asia and the Pacific” and organized by the Economic and Social Commission for Asia and the Pacific (ESCAP).



During the forum, GIZ also co-hosted a side-event in collaboration with ESCAP, the United Cities and Local Governments Asia-Pacific (UCLG ASPAC) on “**Integrated Climate Action for Low-Carbon and Resilient Cities in Asia and the Pacific**” held on 28 March 2023. This side-event highlighted the Urban-Act regional partnership and dealt with potentials for localizing low carbon and climate resilient policies and practices in urban development.

This side-event also focused on advancing The United Nations Sustainable Development Goals (UN SDGs), in particularly on [Goal 11](#) to make cities and human settlements more inclusive, safe, resilient and sustainable; [Goal 13](#) to take urgent action to combat climate change and its impacts, and last but not least, in the spirit of [Goal 17](#) to strengthen the means of implementation and to revitalize the Global Partnership for Sustainable Development.

Ms. Sudhiani Pratiwi, from the Ministry of National Development Planning/Bappenas has also joined the panel discussion in the side-event and shared about Government of Indonesia's perspectives on the regional cooperation on climate mitigation and adaptation actions driven by synergies between local and national governments.

The event was attended by more than 1,700 participants (online and offline) including government representatives, intergovernmental organizations, United Nations bodies, international organizations, major groups, and



Climate Policy

other stakeholders. Moreover, 48 members and associate members of ESCAP such as Indonesia, Belarus, Germany, Mexico, Sweden, Switzerland, and the European Union also joined this forum.



As part of Urban-Act regional agenda on institutional environment improvement for climate-sensitive urban development, GIZ also co-organized Expert Group Discussion in collaboration with UCLG ASPAC and ESCAP on “City Enabling Environment (CEE) Rating in Asia Pacific: Indicator 11 (Environmental and Climate Change Governance)” held on 31 March 2023 in UNCC, Bangkok. All experts from project countries module were invited to provide information related to the development of indicator 11 on CEE Rating, to evaluate assessment- and to revise indicators on enabling environment ratings previously developed on environmental issued including enabling environmental for climate change.

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Moving towards Scaling the Green/Sustainable Public Procurement (G/SPP) in Indonesia

By GIZ - Scaling Sustainable Consumption and Production: Ecolabelling and Sustainable Public Procurement for a Low-Carbon Pathway in ASEAN (Scaling SCP)

The GIZ Scaling SCP project in collaboration with the Centre for Facilitation of Implementation of Environmental and Forestry Instrument Standards (Pusfaster) under the Ministry of Environmental and Forestry (MoEF) has organized a kick-off meeting and stakeholders' consultation workshop in Jakarta on 11 April

2023. The event was attended by various stakeholders from national governments, provincial governments, and associations.



Mr. Ary Sudijanto, Head of Standardization Agency for Environmental and Forestry Instruments (BSILHK) said in his opening remarks, “the today’s event aims to obtain inputs toward the Indonesian Long-Term Action Plan (LTAP) for Green or Sustainable Public Procurement (G/SPP) development. Moreover, to answer the needs of capacity work development and scale-up climate- and resource-friendly product criteria development, is our overarching effort toward greenhouse gas emissions reduction”. Later he also highlighted the urgency to establish the steering committee (SC) to accelerate the G/SPP implementation especially on SC’s structure including work plan, agreed role, and responsibilities across relevant key ministries/institutions.

Apart to support the Government of Indonesia in promoting and strengthening G/SPP and Type-I Eco Label at national level, the Scaling SCP project also aims to carry out pilot testing by expanding G/SPP to sub-national level. The Provinces of Riau Islands, East Java, East Kalimantan, South Kalimantan, and South Sulawesi are selected for pilot projects. Expected outcomes from pilot project are for the provincial governments to be able to implement and monitor G/SPP effectively at sub-national level as valuable lesson learnt for developing a blueprint for launching the scaling G/SPP nationally.

To sum up the event, Ms. Yeri Permata Sari, Head of Centre for Facilitation of Implementation of Environmental and Forestry Instrument Standards (Pusfaster) highlighted several discussions topics such as LTAP finalisation,



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capacity work development by establishing SC, legal format for pilot project, and incentives' scheme for SCP. She later also added that this was very essential to orchestrate multi-stakeholder's participation and supports for making G/SPP to be (partial or fully) mandatory so that there will be more eco-label products available in the market.



The Scaling SCP project is funded by the Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV) and implemented by GIZ in countries of Philippines, Indonesia, Malaysia, and Thailand. More information on the project is [here](#). Moreover, the recording of event is available at [Kick-off Meeting Scaling SCP Indonesia - YouTube](#).

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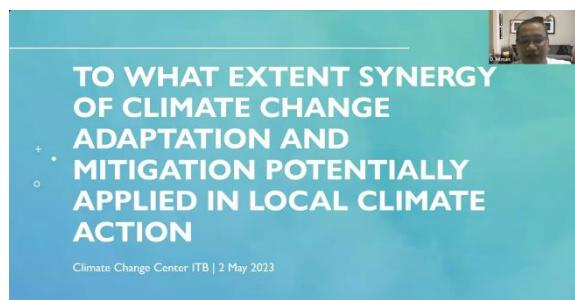
Website:

[Scaling SCP Project](#)

Discussion Session on Synergies between Climate Change Adaptation and Mitigation Through Climate Village Program (ProKlim) Implementation together with KLHK

By DIW and the Bandung Institute of Technology Climate Change Center (CCC-ITB), Strengthen National Climate Policy Implementation: Comparative Empirical Learning & Creating Linkages to Climate Finance (SNAPFI)

An online discussion on the recent research titled “*To What Extent Climate Change Adaptation and Mitigation Synergies Potentially Applied in Local Climate Action*” was held on 2 May 2023 by SNAPFI’s team of CCC-ITB and attended by Koko Wijanarko from the Directorate of Climate Change Adaptation, Ministry of Environment and Forestry (KLHK). The discussion was held to present the preliminary findings and collect inputs and additional information from KLHK.



A capture of Discussion with the KLHK on May 2nd, 2023

This research was developed based on the findings of the SNAPFI National Study on Adaptation Report in 2022 where it showed that there was a synergy between climate change adaptation and mitigation actions at local level. This synergy could be taken for streamlining climate actions and balancing the funding of climate change adaptation and mitigation. For that reason, this research studied to what extend this synergy can potentially be applied in local-scale climate action, by using a case study of the Climate Village Program (ProKlim) by KLHK.

The discussion concluded with further recommendations on adjustments towards the research analysis method and respective data. Henceforth, the KLHK staff will provide more relevant data and information taken from other ProKlim cases to support the research analysis.

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Sustainable Transport

SUTRI NAMA & INDOBUS expands its support to Surabaya Metropolitan Area

By GIZ – Sustainable Urban Transport Programme Indonesia (SUTRI NAMA) and Indonesian Bus Rapid Transit Corridor Development Project (INDOBUS)

Solidifying its plans for 2023, SUTRI NAMA & INDOBUS held its 5th Steering Committee Meeting on 21 March 2023 in Jakarta. This year, SUTRI NAMA & INDOBUS aims to continue the ongoing support to the five pilot cities, while also expanding its efforts to provide additional support to Surabaya Metropolitan Area.

During her opening remarks, Warthane Puvanarajah, Head of Climate and Environment, Embassy of the Federal Republic of Germany, looked back on SUTRI NAMA's journey from December 2017, with the support from the Ministry of Transportation (MoT) and Bappenas, and co-financing from SECO for the technical components of INDOBUS. This included several achievements such as the development of the technical support unit of the MoT, technical and regulatory studies supporting policy regulations, and the capacity development programmes to support the implementation of bus rapid transit (BRT) and sustainable urban transport projects in Indonesian cities.



Handover ceremony of SUTRI NAMA & INDOBUS studies from GIZ and SECO to MoT.

In order to present all the details about completed works, the meeting also hosted a handover ceremony of SUTRI NAMA & INDOBUS studies from GIZ and State Secretariat of Economic Affairs of Switzerland (SECO) to the Ministry of Transportation (MoT).



Participants of the of SUTRI NAMA & INDOBUS 5th Steering Committee Meeting

The meeting resulted in the significant decisions regarding the implementations of SUTRI NAMA & INDOBUS in 2023, including the support to Surabaya Metropolitan Area as an additional pilot city, which includes formulation of feasibility study, capacity development, support for BRT implementation studies, as well as delivering a series of capacity development programmes, and including Semarang and Makassar in the Green Book submission in 2023.

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Sustainable Transport

Empowering national and local stakeholders with knowledge of public transport services

By GIZ – Sustainable Urban Transport Programme Indonesia (SUTRI NAMA) and Indonesian Bus Rapid Transit Corridor Development Project (INDOBUS)

On May 30, 2023, the Ministry of Transportation of the Republic of Indonesia, supported by SUTRI NAMA and INDOBUS, organized the Road Transport Forum and Workshop in Batam. This event brought together public and private stakeholders from the transport sector, providing them with a platform for knowledge exchange and evaluation of the progress made in the development and implementation of public transport services across Indonesian cities.

During his opening remarks, the Director General of Land Transportation, Hendro Sugiatno, invited all stakeholders, both the national and sub-national governments, to jointly realize that the role of transport is important as a catalyst in supporting the economic growth of a region.



The Director of Road Transportation, Director-General of Land Transportation of the MoT, Mayor of Batam City, and the Principal Advisor of SUTRI NAMA & INDOBUS during the opening ceremony.

On that note, Principal Advisor, Achmad Zacky Ambadar, appreciated the ongoing collaboration between SUTRI NAMA & INDOBUS and the Government of Indonesia. In addition to its support in conducting feasibility studies and other technical research, SUTRI NAMA and INDOBUS promotes capacity development of stakeholders at the national

and sub national levels to enhance public transport services in Indonesia.

The event featured two informative sessions from academia and representatives from institutions such as Bappenas, the Ministry of Home Affairs, Bappeda DKI Jakarta, PT. TransJakarta, ITDP, PT. Surveyor Indonesia, PT. TKDN, PT. AINO Indonesia, as well as GIZ, who presented on SUTRI NAMA & INDOBUS's findings regarding financing alternatives for public transport development and implementation. Additionally, a sharing session was held by the Head of Transportation Office for the cities of Banda Aceh and Semarang, who shared insights on the development of the BRT system in their cities.



Participants of the Road Transport Forum and Workshop

At the end of the forum, participants have attained knowledge ranging from policy, institutions, and financing for public transport development and implementation.

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Renewable Energy/Energy Efficiency

1st Indonesia Clean Energy Finance and Investment Training Week

By OECD - Sustainable Infrastructure Programme in Asia (SIPA)

The OECD in collaboration with the Ministry of Energy and Mineral Resources (ESDM) of Indonesia, Financial Service Authority (OJK), GIZ – CASE project, and ETP UNOPS organised a clean energy finance training on 31 October-4 November 2022 in Bandung, Indonesia. This was the first activity in a series of training weeks implemented in Indonesia through the OECD Sustainable Infrastructure Programme in Asia (SIPA) and Clean Energy Finance and Mobilisation (CEFIM) programme. The training provided a platform for sixty-three participants from governments, project developers and financial institutions to discuss barriers and identify solutions for energy efficiency and renewable energy projects.



Group photo of all training participants.

A common template of energy efficiency and renewable energy project appraisal has been agreed upon by financial institutions and project developers. One key outcome was to suggest solutions to increase the confidence of financial institutions to invest in projects, such as the development of a list of energy efficient technologies with key criteria for investors, including the description of the technologies, sectors of implementation, energy savings, economic benefits, and payback period.



Discussion in one of the panel sessions.

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Implementation of the OECD Framework for industry's net-zero transition: Indonesia stakeholder meeting

By OECD - Sustainable Infrastructure Programme in Asia (SIPA)

The OECD in collaboration with the Ministry of National Development Planning (BAPPENAS) organised a first country stakeholder meeting on 6 December 2022 in Jakarta. More than 50 national stakeholders attended the stakeholder meeting to discuss the start of the implementation of OECD's "Framework for industry's net-zero transition" in the Indonesia context. The Framework will assist Indonesia's manufacturing industry through a step-by-step approach in designing solutions for financing and to improve the enabling conditions that can accelerate its net-zero transition. Indonesia is one of the first countries where this Framework is being implemented, as a joined initiative between the OECD Sustainable Infrastructure Programme in Asia (SIPA) and Clean Energy Finance and Mobilisation (CEFIM) programme.



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After opening remarks from BAPPENAS on the relevance of the SIPA programme to support Indonesia in operationalising the country's net-zero emission plan by 2060 (NZE 2060), the OECD presented the Framework to participants. Policy makers, industry actors, finance institutions and civil society organisations discussed the Framework's benefits for their various needs and priorities and highlighted potential industry sub-sectors and technologies that could be covered.

The participants showed particular interest about the OECD approach to assess the business case of low-emission technologies for industry decarbonisation, to include supply chains and infrastructure needed for transition. They highlighted that a range of low-emission technologies will be needed for coal and gas substitution in the industry sector. Several participants emphasised the potential role of blended finance and other types of de-risking mechanisms in view of the perceived and real risks of industrial low-emission technologies and the cost of the transition.

The next step will be the selection of a suitable industry subsector by the government of Indonesia for the implementation of the Framework. The OECD will provide analysis and organise more stakeholder events to facilitate dialogue between relevant government, industry, and finance actors to help identify solutions to accelerate the sector's net-zero transition. The Framework implementation is planned to be finalised by the end of 2024.



Presentation of OECD initial findings



Discussion with the stakeholders during the session

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Accelerating an Energy Transition in Indonesia: Discussion on Emerging Renewable Technologies

By GIZ - Clean, Affordable, and Secure Energy for Southeast Asia (CASE)

In accelerating energy transition in Indonesia, CASE in collaboration with the Ministry of National Development Planning (Bappenas) held a kick-off discussion on 6 March 2023 in Jakarta to start the Emerging Technology Discussion Series. This session examined further the emerging technologies and its potential for the advancement of clean power plant operation in Indonesia.

As one of the largest producing countries of raw materials, Indonesia's domestic industry has a huge potential for a significant role of the development of renewable technologies. Looking at this towering prospect for Indonesia, the energy industry is ought to push energy transition driven by energy electrification, energy digitalization through IoT (Internet of Things), and decentralization. Investing in flexible technologies is key to identifying significant roles for each emerging technologies in maximizing a renewable-driven system.

Featuring experts from Agora Energiewende, IRENA, ASEAN Center for Energy (ACE),



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Bandung Institute of Technology, and PT PLN, the session highlighted the development of emerging renewable technologies specifically on Smart Grid, Green Hydrogen, Nuclear Powerplant, and Carbon Capture Storage (CCS). It also stressed the importance of downstream electrification to reduce other non-electric energy.

The Emerging Technology Discussion Series will continue for four more deep dive sessions before the [Indonesia Sustainable Energy Week](#), that will take place from October 10th to October 13th, 2023.



Panelist from MEMR and PLN presenting their insights on renewable emerging technologies, moderated by Yudiandra, Energy Advisor of GIZ in Front of CASE Stakeholders and Online Audience

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West Nusa Tenggara discusses the energy transition journey at SPIREC 2023 in Madrid, Spain

By ICLEI-Local Governments for Sustainability, 100% Renewable Energy Cities and Regions Roadmap

Coming together to discuss game-changing opportunities and challenges related to the energy transition, West Nusa Tenggara (WNT), Indonesia alongside Kenya and Argentina joined SPIREC 2023 in Madrid, Spain from 21-

23 February 2023 to share key insights on their journey as part of local and regional governments (LRGs) participating in the 100% Renewables Cities and Regions Roadmap project.

In line with WNT's vision of achieving the targets outlined in the WNT 100% RE Roadmap by 2050, it is crucial for the region to receive support in terms of broader knowledge and networks to effectively implement the roadmap. In this regard, ICLEI has invited and facilitated WNT Province to participate in global events such as SPIREC. This opportunity also allows WNT to share local perspectives on the hurdles and opportunities involved in implementing the sustainable energy transition in its jurisdictions.



Addressing major concerns of energy supply and security in the province, Niken Arumdati, Secretary of the Department of Energy and Mineral Resources of WNT, shared the importance of speeding up the energy transition.

"In most cases, the rainy season and bad weather can affect our energy supply which comes from other regions. Transitioning to renewable energy based on our identified potential is the best solution to cut our dependence on fossil fuels and increase our energy security," said Arumdati.

Developing green tourism to accelerate the net-zero commitment

Considering the potential of the tourism industry in the region, the WNT government sees the importance of developing a sustainable tourism sector and completing



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green energy infrastructures across the province.

In this regard, Lalu Adi Gunawan, Climate Adaptation Researcher and Regional Development and Spatial Planning expert of WNT province said “We intend to establish a reputation as a green and inclusive tourist destination. In terms of inclusivity, we also want to establish what we refer to as DEWI, which stands for Desa Wisata or village tourism destination.”

Transitioning to 100% renewable energy in all sectors poses both opportunities and challenges in many areas. With cities and regions at the frontlines of sustainability, establishing a clean energy framework and renewables roadmap with local and regional governments is one of the most prominent solutions to tackling climate change.



Speakers and moderators during the SPIREC Community Event on 100% Renewable Cities and Regions: Argentina, Indonesia, and Kenya.

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KBLI 35203 Launching: A momentum for innovative biogas development

By GIZ – Strategic Exploration of Economic Mitigation Potentials through Renewables (ExploRE)

ExploRE continues to support the Government of Indonesia (GoI) to achieve the renewable

energy mix target. In collaboration with the Ministry of Energy and Mineral Resources, Ministry of Investment, and GGGI the KBLI 35203 was launched on 9 March 2023.. KBLI 35203 is the Indonesian standard business classification code that typify the segmentation and requirements of business activities for selling upgraded biogas or biomethane gas to the public or other business entities. This code is used to identify business entities, regulations, and risk classifications.



The Biogas Licensing (KBLI 35203) was launched by the Director General of MEMR and the Deputy of Ministry of Investment on 9 March 2023 in Jakarta

The launch of KBLI 35203 created a momentum for key players in the biogas sector to expand their business, through advanced processing of biogas and production of biomethane. Known as the ‘next level of biogas’, biomethane has a similar character to natural gas, making it the right substitute for natural gas derivative products.



ExploRE Principal Advisor, Dody Setiawan (most left), sits with other panelists at the KBLI 35203 launching event

In addition to the abundance of agro-industrial waste as biomethane raw material, the potential of the biomethane market is also promising. Biomethane can be used as a substitute for LPG, natural gas, and diesel fuel



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in industry and commercial business. Furthermore, it can also be developed for use through gas injection points and substitutes for fossil fuels in diesel power plants.

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West Nusa Tenggara undergoes energy transition capacity building to strengthen the strategies

By ICLEI-Local Governments for Sustainability, 100% Renewable Energy Cities and Regions Roadmap

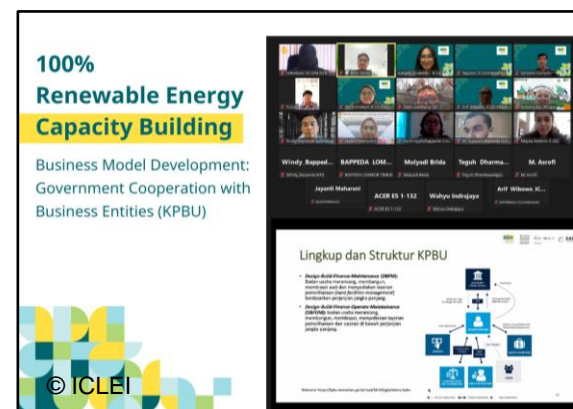
To assist in the transition to 100% renewable energy in West Nusa Tenggara (WNT), ICLEI Indonesia has conducted a series of extensive capacity building programs in the first quarter of 2023, equipping the region's project implementation members (PIT) with necessary resources and energy transitions strategies.

Pursuing integral knowledge-sharing, ICLEI Indonesia collaborated with the CASE (Clean, Affordable, and Secure Energy for Southeast Asia) Project under GIZ to discuss three essential topics that will help the WNT local governments in identifying hurdles and opportunities in the region's energy transition process. With this comprehensive training, WNT is poised to become the catalyst for renewable energy deployment in Indonesia.

In one of the capacity-building sessions that was held virtually on 13 April 2023, Andriah Feby Misna, the Director of Various New Energy and Renewable Energy, MEMR, delivered the keynote speech underlining the important role of local governments as strategic partners to achieve the national target for energy transition.

"The role of providing adequate data and studies on the region's renewable energy potential is key to accessing energy finance. Exploring the provincial authority to govern renewable energy potential as regulated under Presidential Regulation No. 11/2023 is another opportunity to accelerate the energy transition at sub-national level," said Feby.

Deni Gumilang, Senior Advisor/Team Leader at GIZ Energy Programme Indonesia highlighted that amidst the abundance of energy finance, it is important to identify systematic and transformative impacts to shift the existing paradigms in society and align with national and global agendas in order to develop a good project concept note for funding.



Developing business models



Exploring opportunities of enabling public-private partnerships for bankable RE projects in WNT, a knowledge-sharing session on 11 May 2023 saw Bely Utarja, Senior Consultant at GIZ Energy Programme, sharing the business model mechanism of KPBU and energy efficiency initiatives at the local level.

ICLEI Indonesia has been assisting WNT with the needed resources to establish its local clean



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energy framework. It is expected that the region will soon finalize potential bankable projects to accelerate its energy transition.

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Bioshare Series #10: Widening Biomethane Business Opportunity

By GIZ – Strategic Exploration of Economic Mitigation Potentials through Renewables (ExploRE)

Supporting the government to encourage speedy growth of biomethane business in Indonesia, ExploRE collaborated with the Directorate of New Renewable Energy and Energy Conservation (EBTKE), Ministry of Energy and Mineral Resources, in the wider socialisation of KBLI 35203, the Indonesian standard business classification code for upgraded biogas business. The socialisation was organised through the Bioshare Series #10 webinar on Biomethane Business Opportunity through Investment Regulation. The event was organised in hybrid format from Pekanbaru, Riau, on 19 April 2023.



Virtual group photo of Bioshare Series #10 panelists and moderator

Bioshare Series #10 was attended by more than 150 participants from a diverse background, including local government officials, industry players, project developers and technology

providers, among others. At the event, representatives from the EBTKE revealed the investment required for domestic biomethane and compressed biogas (CBG) development amounted at USD 27 million. With accessible licensing through KBLI 35203, the government aims to encourage the industrial sector towards that investment target.

Bioshare Series #10 also highlighted various incentive schemes for biomethane business. Among them are import duty waiver for equipment (if not included in the 'negative list') and reduction of gross income calculation for businesses that carry out R&D and advocacy activities. In addition, biomethane business located in the special economic zone (KEK) has potential entitlement for tax holiday and tax allowance.



Interactive discussion session during Bioshare Series #10 hybrid webinar

Biomethane development is a strategic step to achieve the national energy mix target. Effort to achieve the target has hitherto been focused on electricity generation, setting aside thermal generation which is in high demand in the industrial sector. Meanwhile, biomethane has the potential to fill this gap as it holds the ability to produce higher temperature thermal power compared to biogas or biomass.

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Renewable Energy/Energy Efficiency

West Nusa Tenggara joins IEA energy efficiency training week in Paris

By ICLEI-Local Governments for Sustainability, 100% Renewable Energy Cities and Regions Roadmap

The International Energy Agency (IEA) 2023 has gathered the global community of policy makers and energy-related stakeholders from more than 20 countries to take part in a training week titled “Energy Efficiency Policy in Emerging Economies” on 17-21 April 2023 at the IEA’s Paris headquarters, France.

Together with ICLEI Indonesia, West Nusa Tenggara (WNT) officials were invited to participate in a series of lectures, interactive discussions, and practical exercises to capacitate its local governments in realizing the 100% renewable energy project goals in the province.



Participants in a discussion during the the SETS Serious games special edition organized by ICLEI and IEA.

The course served as an avenue to allow participants and policymakers in emerging economies to learn from international best practices and share their own ideas and solutions in order to implement effective energy efficiency initiatives in their respective countries.

Joining the training session, Niken Arumdati, Secretary of the WNT Department of Energy and Mineral Resources, shared that the program helped local authorities in gaining valuable information on the energy efficiency policy package, building relevant technologies, policy investments, and many more.

She said “Energy efficiency is considered as the first fuel. It is abundant and inexpensive yet the most effective and quickest measure to slow the growth of energy demand, lower the energy bills, and to enhance resiliency.”

Noting the need for robust implementation of energy efficiency in WNT, Arumdati underlined that the energy sector is the second main contributor of GHG emissions in the province.

“In order to achieve our net zero emission’s target in 2050, we need to decarbonize the energy sector. Decarbonization of the energy sector in WNT includes renewable energy utilization for the electricity and transportation sectors, as well as energy efficiency.”

The event also highlighted that the greatest efficiency gains are achieved by a package of policies that effectively combine regulation, information, and incentives. Integration of these elements will maximize the impact and success of energy efficiency initiatives.

In one of the sessions, ICLEI also teamed up with IEA for a special edition of the Serious Game SETS at the IEA EETW 2023, focused on energy efficiency and digitalization. The Sustainable Energy Transition Strategy game (SETS) aims to bring together local government officials, and other diverse stakeholders to address the various challenges involved in the energy transition.



ICLEI with government official representatives from West Nusa Tenggara, Indonesia and Argentina during IEA EE Training Week.



Renewable Energy/Energy Efficiency

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Commencing a thematic study on green hydrogen development in Indonesia

By GIZ – Strategic Exploration of Economic Mitigation Potentials through Renewables (ExploRE)

Hydrogen utilisation is not uncommon in Indonesia. In 2020, hydrogen consumption for domestic industries was marked at 87.91 million tons. However, hydrogen in use is mainly derived from conventional energy sources, such as natural gas, through steam reforming processes. Production and utilisation of this type of hydrogen contribute in a significant amount to carbon emission, which is counterproductive to Indonesia's effort to achieve net zero emission. In the effort of developing feasible substitute to address the large hydrogen demand, ExploRE collaborates with the Indonesian Ministry of National Development Planning (Bappenas) to initiate a thematic study on green hydrogen development in Indonesia.



Group photo of participants of the Thematic Study on Green Hydrogen Development in Indonesia Kick-off Meeting in Jakarta, 17 May 2023

Unlike the conventional hydrogen, green hydrogen is produced through electrolysis process by using electricity sourced from renewable energy. Green hydrogen and its derivative products, such as green ammonia and green methanol, have much lower carbon emissions than similar products produced from fossil fuels. Green hydrogen and the various derivative products also have a great potential to substitute the use of fossil fuels in the industrial sector (fertilizer and steel) and the long-haul transportation sector.



Nizhar Marizi, Director of Energy, Mineral and Mining Resources, Bappenas, at the Kick-off Meeting.

Quoting Nizhar Marizi, Director of Energy, Mineral and Mining Resources, Bappenas, during the Kick-off meeting of the Thematic Study of Green Hydrogen Development in Indonesia, May 17, 2023 in Jakarta, the three main aspects expected through the implementation of this study are comprehensive considerations for policy formulation, preparation of regulations in the upstream sector, production, distribution, and utilization, as well as institutional aspects in the use of green hydrogen. The thematic study on green hydrogen development in Indonesia is expected to provide essential references in the domestic green hydrogen development plan and the formulation of the National Medium-Term Development Plan (RPJMN) 2025 – 2029.

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Forestry/REDD+

The Best Practices on Sustainable Peatland Management from Ministry of Environment and Forest of Indonesia are Showcased in a Workshop organized by SUPA/REPEAT Component 1

By GIZ, Sustainable Use of Peatland and Haze Mitigation in ASEAN (SUPA)/REPEAT Component 1

The 2nd Sub-regional Knowledge Exchange workshop was held in Pontianak, Indonesia on 6-10 March 2023. This workshop was the continuation of the 1st workshop held in Malaysia in February 2023.

In this workshop, the Ministry of Environment and Forestry of Indonesia, as the host, shared good practices related to the implementation of national policy and regulations on sustainable peatland management. The national level approach for peatland restoration advocates the 3R approach: Rewetting, Revegetation and Revitalization.

On the 2nd Workshop, the participants also learned about the operation and management's best practices of a timber concession on a peatland area, the work of Manggala Agni, and the strategies applied by the government of Indonesia to empower and engage local communities living in peatland areas.

The Director General of Pollution Control and Environmental Damage of Ministry of Environment and Forestry of Indonesia, Mr Sigit Reliantoro, stated in his online opening remarks that, it was expected the workshop can contribute to having a global impact in controlling climate change and strengthening cooperation and coordination between stakeholders under the ASEAN framework.

Mr. Koh Min Ee, Chair of ASEAN Task Force on Peatlands, expressed his confidence in Indonesia's experience on sustainable peatland management will yield valuable lessons for the

ASEAN participants, and thanked Indonesia for hosting the workshop and sharing knowledge.

This workshop is one of the activities of SUPA Component 1 to strengthen the capacity of ASEAN member countries through more technical workshops and activities focused on knowledge exchange at the regional and sub-regional levels.



Manggala Agni in Kubu Raya District demonstrated how they extinguish peatland fire



Field visit to timber concession in a peatland area

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Training on Palm Oil Plantation Management in Peatland Ecosystem held in Muara Batang Toru, South Tapanuli

By Konservasi Indonesia, Mitigation and Adaptation through Conservation and Sustainable Livelihoods in Indonesia's Peat and Mangrove Ecosystems (IKI-PME)

About 35% of Indonesian peatlands are in the East coast of Sumatra with few locations in the West coast like South Tapanuli. The area of the peat ecosystem in South Tapanuli reaches \pm 16,768 hectares which are in Peat Hydrological Units (PHU) Aek Nabirong-Aek Batang Toru and Peat Hydrological Units (PHU) Aek Garoga and Aek Batang Toru¹.

The IKI-PME (Peat and Mangrove Ecosystem) project conducted a training on palm oil plantation management in peatland ecosystem on 16 March 2023 in Muara Batang Toru to discuss the role of water level management that need to be maintained around 40-60 cm below the surface. This training was attended by 74 members of palm oil farmer group in Muara Batang Toru (PSMB) association with 15% of them are female. This training also aimed to address the issue of 71% current peat area in South Tapanuli is in the concession area, while the rest is in non-concession area with most of them have been converted into plantation and in a degraded condition now².

The activities of training were held both inside the class and in the field. Introduction to the characteristics of peatlands and sustainable treatments, groundwater monitoring wells, canal blocking, early warning system boards, and floating fish-net ponds were some of the topics covered in this program. During practice session in field, participants learned how to measure the water level in groundwater monitoring well and exchanged information with local communities that have already

implemented the water management in the peat restoration sites.



Class of Water management on palm oil plantation in peatland ecosystem (Konservasi Indonesia/Aristya Rahayu)



Waldemart Silitonga, one of local champions explains the peat monitoring well system to the participants (Konservasi Indonesia/Aristya Rahayu)

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Technical review of North Sumatera Peatland Protection and Management Plan (RPPEG) by Ministry of Environment and Forestry (MoEF)

By Konservasi Indonesia, Mitigation and Adaptation through Conservation and Sustainable Livelihoods in Indonesia's Peat and Mangrove Ecosystems (IKI-PME)

According to data from Ministry of Environment and Forestry (MoEF), North Sumatera Province (NS) has 27 Peat Hydrological Units (PHU) with a total area is around 524,885 Ha – with 43% belongs to deep

¹ Based on SK.129/MENLHK/SETJEN/PKL.0/2/2017 TENTANG PENETAPAN PETA KESATUAN HIDROLOGIS GAMBUT NASIONAL and SK.130/MENLHK/SETJEN/PKL.0/2/2017 TENTANG PENETAPAN PETA FUNGSI EKOSISTEM GAMBUT NASIONAL

² Based on KI's analysis

peat and other 57% is shallow peat. However, more than 90% of this peat ecosystem has experienced degradation³. Considering these conditions, the IKI-PME (Peat and Mangrove Ecosystem) supported the provincial government in developing the North Sumatra Peatlands protection and management plan.

The facilitation started from the issuance of the Decree of the Governor of NS No 188.4/659/KTPS/2021 concerning the NS Province Peat and Mangrove Ecosystem Management Team (RPPEG) in November 2021. It was then followed up with several activities, such as kick off meeting of the draft of RPPEG, and public consultation in November 2022. After 3 months of submission, the MoEF conducted technical review meeting on 30 March 2023 which aimed to provide technical inputs to the current version draft.



Technical review conducted by inviting experts and several representatives from different directorate within MOEF (Konservasi Indonesia/Chika Manupada)

During the meeting, the representative of North Sumatra planning agency mentioned at least 3 problems in management of peat ecosystems. First, more than 80% of PHU in North Sumatra Province is in Areas for Other Uses (APL) or freehold area. However, he sustainable management of PHU hasn't been accommodated in spatial planning policies. Second, domination of cultivation activities, especially oil palm plantations, both managed by companies and the community on peatlands ecosystem. Third, the massive peat ecosystem damages.

In conclusions, the inputs from panellists including academician and the RPPEG

secretariat were mostly related to methodology, target, and program selection. On the other hand, the MoEF also provided 2 months duration to revise and do second-round review before submission for final approval.



Signed acceptance of official report/minutes between MOEF and North Sumatra Planning Agency (Konservasi Indonesia/Chika Manupada).

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Innovation from South Sumatra for Preserve Peat Ecosystems

By World Agroforestry (ICRAF), Improving the Management of Peatlands and the Capacities of Stakeholders in Indonesia (Peat-IMPACTS Indonesia)

South Sumatra Province, known for its diverse ecosystems, is taking innovative steps to preserve its invaluable natural resources through formal education. A collaborative effort has been launched in Ogan Komering Ilir (OKI) and Banyuasin districts to enhance stakeholder capacity in managing peat ecosystems on 25 May 2023. A local curriculum on peat and watershed has been developed for elementary school students in grades 4-6.

The curriculum development process involved creating comprehensive teaching materials, including core competencies, syllabi, and learning implementation plans. Teachers in both districts received technical guidance to

³ Based on SK.129/MENLHK/SETJEN/PKL.0/2/2017 T E N T A N G PENETAPAN PETA KESATUAN HIDROLOGIS GAMBUT NASIONAL, SK.130/MENLHK/SETJEN/PKL.0/2/2017 T

E N T A N G PENETAPAN PETA FUNGSI EKOSISTEM GAMBUT NASIONAL and data kerusakan gambut, KLHK, 2022



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effectively deliver the curriculum and integrate peat ecosystem understanding into their subjects. Curriculum trials are being conducted, with the Education and Culture Office monitoring progress and ensuring quality assessment instruments are used.



Some development processes of the peat education curriculum and the launching of the Peat and Watershed Environmental Curriculum in Palembang, South Sumatera.

Notable achievements include the issuance of decrees in Banyuasin and OKI districts, and officially implementing the peat curriculum in elementary schools. The success of this initiative is attributed to collaboration among stakeholders through the IKI-funded Peat IMPACTS project implemented by ICRAF with the local government agencies, Peat and Mangrove Restoration Agency (BRGM), NGOs, and multistakeholder forums.

By tailoring the curriculum to young learners and equipping teachers with appropriate knowledge and skills, South Sumatra aims to instil awareness and understanding of the importance and characteristics of peatlands.

This effort contributes to the sustainable management and preservation of these ecosystems. Through education, the province seeks to foster a generation that values and

protects its unique natural heritage for the benefit of present and future generations.

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Harmonizing Food Security and Sustainable Plantation in Peatland Area: Nusakarta Village's program

By World Agroforestry (ICRAF), Improving the Management of Peatlands and the Capacities of Stakeholders in Indonesia (Peat-IMPACTS Indonesia)

Representatives from Nusakarta Village in Ogan Komering Ilir District, South Sumatra, gathered to discuss the design and implementation of an agroforestry model for oil palm rejuvenation. Currently, the village relies on income from monoculture oil palm plantations and faces challenges in rice cultivation. To revitalize the plantation and promote sustainability, a 0.5-hectare demonstration plot will integrate oil palm, areca nut, and avocado. This learning farm promotes knowledge-sharing, experiential learning, and resilient farming practices.

The aging oil palm trees hinder harvesting and productivity, necessitating rejuvenation through agroforestry. The introduction of intercropping plants such as areca nut and avocado aims to improve yields. Three main activities focus on farming business systems, marketing, institutional development, and conservation efforts. The Peat-IMPACTS program, funded by IKI and facilitated by ICRAF, provides technical assistance and support for sustainable governance. ICRAF acts as a bridge between the village and stakeholders, fostering collaboration and empowering the community.

Dr. Sonya Dewi, Director of ICRAF Indonesia, emphasizes the program's commitment to



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capacity building and mentoring. The aim is to set an example for the community and encourage adoption of sustainable practices. The collaborative effort seeks long-term empowerment and sustainable development.



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Participative discussion with village representatives, village work teams, BUMDesa, and women's groups in Nusakarta Village.

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Community Wardens in Hutan Harapan: Community Based Forest Patrols

By KfW and Burung Indonesia - Hutan Harapan, the Consolidation of Ecosystem Restoration Concession (ERC)

"We don't bother you, why did you make troubles in our land?" said Mang Samsu and Mang Dani to an illegal forest cultivator they met during a patrol in the Hutan Harapan area in early March 2022.

Mang Samsu, together with 48 members (including 8 females) of Batin Sembilan community, are members of the Community Warden patrol team. They work in collaboration with the PT Restorasi Ekosistem Indonesia (REKI) patrol team to protect Hutan Harapan from illegal activities, such as land

clearing, forest and land fires, poaching, and logging.



The Batin Sembilan Community Wardens conducting routine patrols in the Hutan Harapan area (Burung Indonesia/Saleksa S)

Currently, the Community Wardens conduct patrols twice a week with the PT REKI patrol team, particularly in those areas that are prone to illegal activities. The Community Wardens will reprimand and expel any group of illegal forest cultivators they meet. All encounters are recorded in the CyberTracker application along with any illegal activities that they have come across. This information is used to inform patrolling strategies and improve management plans. "We joined the patrols protecting Hutan Harapan because this is our home. We don't want our home to be overtaken by encroachers," said Mang Samsu, who oversees the Community Wardens.

In conducting patrols to protect Hutan Harapan, the Community Wardens were trained to use the Cyber Tracker-SMART tool; operate GPS and map data on GPS and make patrol reports. In addition, they have formed a fire prevention community group (MPA). "This forest belongs to all of us, protecting this forest is the same as protecting our home," concluded Mang Samsu. (Saleksa)

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The Dipterocarpaceae Family: A Key Stone Species in Hutan Harapan

By KfW and Burung Indonesia - Hutan Harapan, the Consolidation of Ecosystem Restoration Concession (ERC)

Keystone species of Hutan Harapan's forests, is the Dipterocarpaceae. The Dipterocarpaceae are a family of 16 genera and about 695 known species of mainly tropical lowland rainforest trees. These trees provide fruits, pollen, nectar, and habitats for myriad forms of life.

The larger dipterocarps are often considered climax species, meaning that they dominate in regions made up of mostly primary forest. Some species can grow quite large, regularly produce trees of over 80 meters in height. Some of the species are importance in the timber trade, but some are now endangered as a result of overexploited, illegal logging, and habitat conversion.



Hutan Harapan research team along with LIPI researcher (Burung Indonesia/ Adam Ibnu).

To better understand the extent of the Dipterocarpaceae species in Hutan Harapan, the Hutan Harapan team collaborated with Deden Girmansyah from Indonesian Institute of Sciences (LIPI) to conduct further research of the Dipterocarpaceae species based on existing Dipterocarpaceae monitoring plots that Hutan Harapan has established since 2010.

To date, the Hutan Harapan team has recorded 38 tree species belong to the Dipterocarpaceae family spread throughout the secondary forest. According to Deden, Hutan Harapan has several trees from this family that are resin producers which a source of income for the Batin Sembilan.

There are six species classified as critically endangered and seven species included in the endangered category. If these species go extinct, with them goes all the life that they support. "Saving Hutan Harapan is the same as saving the Dipterocarpaceae which are categorized as endangered and critical," concluded Elva Gemita-Manager of Research and Development of Hutan Harapan.

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Biodiversity

Tengkawang Butter: A Cocoa Butter Substitute Produced in Kapuas Hulu District

By GIZ - BioFrame Tengkawang Pilot Project

In January 2023, the Tengkawang Pilot Project distributed sets of processing equipment to the Village-Owned Enterprises in the four target villages of the Kapuas Hulu District, West Kalimantan, Indonesia. This pilot project is a part of BioFrame (Support Project for the Design and Implementation of the New Global Biodiversity Framework) that's implemented globally and, in addition to Indonesia, has pilot projects in South Africa and Costa Rica.

Following the distribution of equipment, PT Arcia Oil, acting as the training provider, trained the community group members in the extraction of Tengkawang oil (known as "butter" due to its high melting point), the production of derived products based on Tengkawang butter, and the SOP and maintenance of processing equipment.

The training began with an inspection of the processing equipment. Then, Tengkawang butter was extracted from the Tengkawang nuts, of a sufficient quality to meet market demands. Part of the Tengkawang butter was then further processed to make solid and liquid soap to be sold in local markets.

It is expected that Tengkawang Butter can be sold internationally as a cacao substitute in the food and cosmetics industries, thereby creating an additional income for the local communities. The value added to the Tengkawang value chain will increase community interest in planting and protecting Tengkawang trees, thereby contributing to Government of Indonesia's efforts to implement green economy recovery measures through restoration and conservation of forest ecosystem biodiversity, combined with community empowerment.

Next, the Tengkawang Pilot Project in coordination with relevant authorities in district and provincial level, will assist the communities to obtain the necessary permits

and licenses to market Tengkawang butter and its derived products more extensively across Indonesia.



Processing Tengkawang nuts into oil and derived products, Batang Lupar, Kapuas Hulu

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Beginning of a Field School on Cocoa in Tuva Village, Central Sulawesi

By UNDP, Biodiversity Finance Initiative (BIOFIN II)

Bappenas, BIOFIN, and BAZNAS collaborated to facilitate a "Field School" training for local cocoa farmers, while at the same time, maintaining environmental protection to reduce the threat to biodiversity in Tuva Village. This activity is targeted to build capacity of local farmer, increase cocoa productivity, and enhance the economy of the Tuva people.



Biodiversity

Tuva Village is located in Gumbasa District, Sigi Regency, Central Sulawesi Province, Indonesia. It lies approximately 52 km from the south of Palu city and shares an eastern border with the Lore Lindu Biosphere Reserve and National Park.

According to the background study, cocoa farmers in Tuva encountered several challenges in the field such as the age of cocoa plants, unavailability of cocoa-specific fertilizers, low capacity of cocoa farmers, and widespread occurrence of pests and diseases. These challenges undeniably required extensive interventions like prioritised sustainable practices to help improve people's livelihood and reducing the ecological vulnerability of the area in order to protect the environment for future generations.

On 16-17 May 2023, a kick-off event marked the start of cocoa field school activities in Tuva village. The first Cocoa field school session focused on the basic cocoa Good Agricultural Practices (GAP), including learning about soil characteristics, land preparation, and plant nutrition. 40 farmers attended the cocoa field school which is held regularly every month during the year.

Local farmer women group from Tuva Village shared their experiences on cocoa farming to BIOFIN. From the discussion, they underlined some challenges on gender issue on cocoa industry, opportunity for women's participation, and women-multiple roles on the field.



Local farmer group in Tuva Village (BIOFIN-BIOFIN/Dicky Aprianto)

These experiences and information have enriched BIOFIN's perspective on gender

related to the cocoa farming. By supporting and empowering women, it is expected that it will contribute to the revival of cocoa production and improve the economy's condition in the local community.

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The Deployment of Baited Remote Underwater Video (BRUV) camera on Seagrass Bed

By CMS/UNEP and YAPEKA, Conservation of biodiversity, seagrass ecosystem, and their services – safeguarding food security and resilience in vulnerable coastal communities in changing climate

YAPEKA and Project Seagrass have deployed four BRUV (Baited Remote Underwater Video) cameras in 36 seagrass meadows points across Tarabitan, Bahoi, and Bulutui Villages, North Minahasa, North Sulawesi, Indonesia to study the tropical seagrass-associated fish. The fieldwork was conducted from 30 March to 5 April 2023 by three members of YAPEKA and one member from Project Seagrass. This activity aims to study species richness and abundance of seagrass associated fish.

From April-May 2023, all the data from BRUV cameras were collected by YAPEKA team for identification. During the process, more than 35 fish species have been identified and associated with the seagrass habitat, with more than half belongs to the local food sources.

These findings show the importance of the seagrass ecosystem as one of the most productive ecosystems in the sea which also provides a wide range of ecosystem services such as providing food and nursery ground for many marine species including fish and invertebrates (Nordlund *et al.*, 2016)⁴. These marine animals are utilized by small-scale fishers living in coastal areas for their food and main livelihood.

⁴ Nordlund, L.M., Koch, E.W., Barbier, E.B. and Creed, J.C., 2016. Seagrass ecosystem services and their variability across genera and geographical regions. *Plos one*, 11(10), p.e0163091.



Biodiversity

However, many seagrass habitats are declining due to the effect of coastal development, land reclamations, deforestation, seaweed farming, overfishing, and garbage dumping (Unsworth *et al.*, 2018)⁵. Therefore, unprecedented biodiversity loss can threaten their food security and lead people into poverty. By understanding the seagrass-associated fish, local communities will understand the important role of seagrass meadows and the same time, maintain the health of seagrass to improve their food security and resiliency towards climate change.



Preparation for BRUV deployment in North Minahasa (YAPEKA/ Joandi Arendege)

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⁵ Unsworth, R.K., Ambo-Rappe, R., Jones, B.L., La Nafie, Y.A., Irawan, A., Hernawan, U.E., Moore, A.M. and Cullen-Unsworth, L.C., 2018. Indonesia's globally significant seagrass meadows are under widespread threat. *Science of the Total Environment*, 634, pp.279-286.

Knowledge Products

Konservasi Indonesia, *Mitigation and Adaptation through Conservation and Sustainable Livelihoods in Indonesia's Peat and Mangrove Ecosystems (IKI-PME)*

<p>"Mengolah tano Sobusobu, Menyelamatkan Kehidupan"</p>	<p>This booklet illustrates good practices for peat restoration activities carried out in Muara Manompas, South Tapanuli Regency, by using a popular writing style. Apart from being a good practice stories that presents the process of restoration activities starting from baseline assessment to monitoring and evaluation activities, this book also presents testimonials, as well as stories from the field. Furthermore, the stories and best practices could be applied as a guide reference and an inspiration for other peat restoration project developers and future local champions.</p> <p><i>Contact:</i> Susan Lusiana, IKI PME Senior Project Manager slusiana@konservasi-id.org</p>	
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Published by: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

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GIZ is responsible for the content of this publication

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