SIRD #95
SOCIAL INVESTMENT ROUNDTABLE DISCUSSION

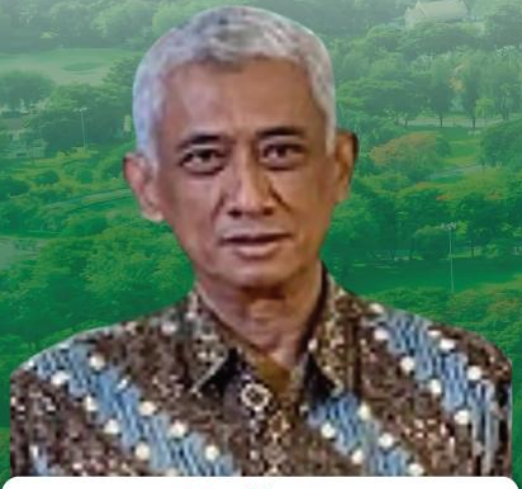
Social Investment Indonesia

FREE

DAPATKAN GIVEAWAY !

Beyond the Green Hype:

Membedah Kompleksitas, Paradoks, dan Keadilan dalam Ekosistem Pasar Karbon Indonesia



Mulkan
Kadiv. Penghimpunan Dana dan Pengembangan Layanan
Badan Pengelola Dana Lingkungan Hidup



Riza Suarga
Chairman
Indonesia Carbon Trade Association



Jalal
Chairperson of Advisory Board
Social Investment Indonesia

Host:



Peggy Arnolia
Senior Consultant
Social Investment Indonesia

Jumat, 10 April 2026

15.00 - 17.00 WIB

socialinvestment.id

0812-3383-8463

Via zoom @SocialInvestment_Id

Nature Based Carbon Potential :
Regulatory Landscape and Recommendations Post Perpres 110/2025

DR. Riza Suarga
Chairman
Indonesia Carbon Trade Association

Social Investment Roundtable Discussion

Jakarta, 10 April 2026



IDCTA

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Issues Identification

Indonesia's FOLU Carbon Potential:

Regulatory readiness vs. Reality

Carbon Economic Ecosystem Landscape

Regulatory vs. Effective Monetization

Carbon Market Landscape

Takeaways

IDCTA

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Member Clusters

Renewable Energy	PERTAMINA POWER INDONESIA; PLN Energy Management Indonesia; Kakiatna INDONESIA
CCS/CCUS	Olimpus Fotobioreactor Carbon Capture Utilization & Storage (FCCUS); Marubeni
Biochar and Biogas	TERRABARU; Gree ENERGY; Biru Karbon Nusantara
Investor	Carbonite IGNITING CARBON; CarbonX
Validation and Verification Bodies	bki
Advisory	NEYEN; LCI Life Cycle Indonesia Towards Sustainable Indonesia; AFS LAWYERS partnership
Digital MRV	ALLID
AFOLU	AGRAUSRESOURCES; smart agribusiness and food; MOL Mitsui O.S.K. Lines; Thryve .Earth; TSE GROUP; kennemer ECO SOLUTIONS; Value Network Ventures; Alamindo

ABOUT IDCTA

VISION

To become the most outstanding Carbon Trading Association that play significant role nationally as well as globally.

MISSIONS

1.Being the government's strategic partner in carbon trade
2.Advocating members' interest to excel in global competitiveness
3.Innovating carbon economy through framework of research and development
4.Prioritizing organization and business ethics to uphold the dignity and integrity of our association, people, and nation.

ASEAN Common Carbon Framework



MCMA Malaysia Carbon Market Association
AACM ASEAN ALLIANCE ON CARBON MARKETS
INDONESIA CARBON TRADE ASSOCIATION
CARBON Markets Club
ssfa

4 Achievements

Advocating members' interest to excel in global competitiveness	Government Partnership	Innovating carbon economy through framework of research and development	Prioritizing organization and business ethics to uphold the dignity of association, people, and nation
  CDC 2025 CARBON DIGITAL CONFERENCE INDONESIA		 	 Board and Members Gathering including workshops

Mission Achievements

INDONESIA CARBON TRADE ASSOCIATION
ASOSIASI PERDAGANGAN KARBON INDONESIA

Advocating members' interest to excel in global competitiveness	Government Partnership	Innovating carbon economy through framework of research and development	Prioritizing organization and business ethics to uphold the dignity of association, people, and nation
  	 	 	 **Board and Members Gathering including workshops**

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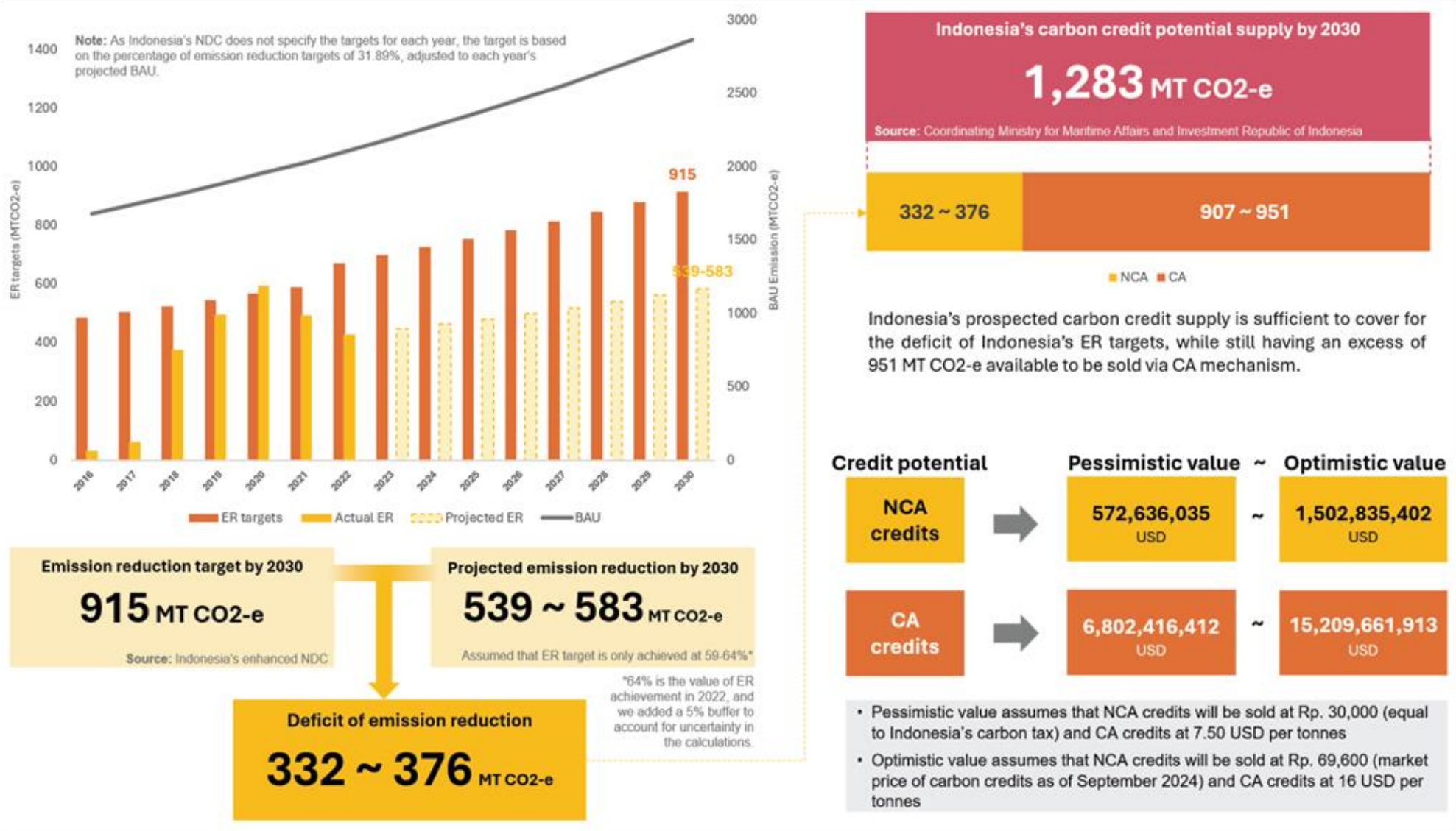


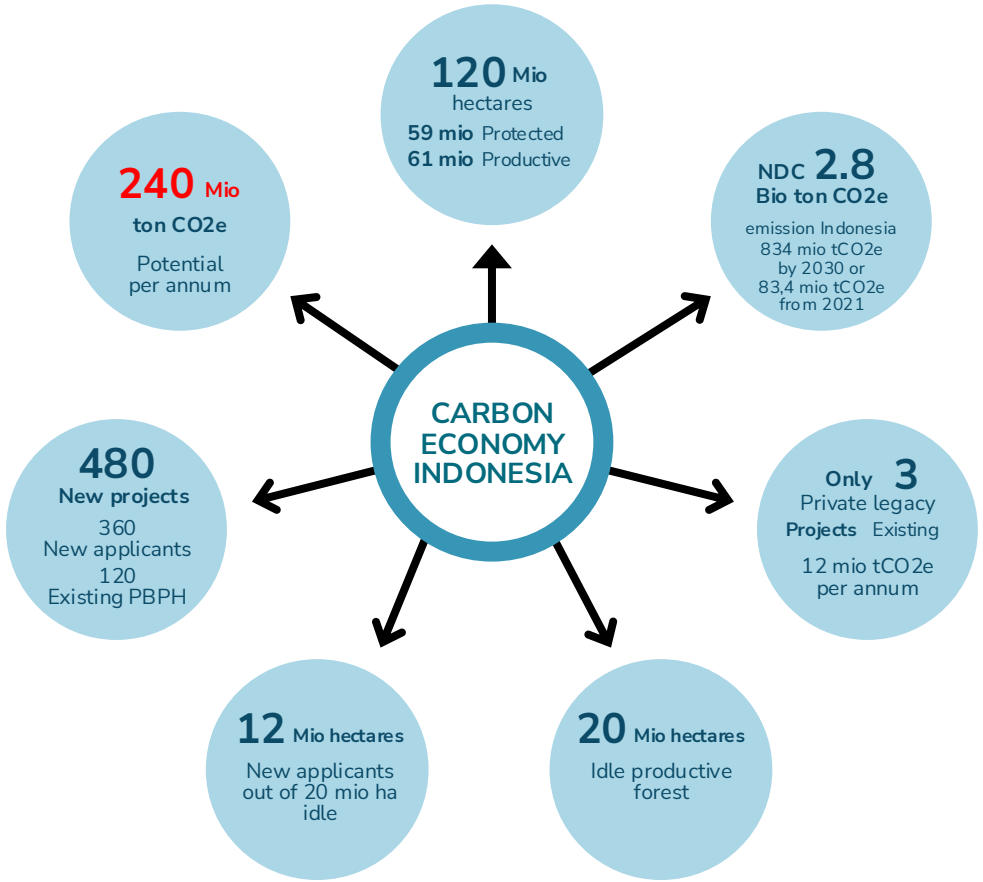
Figure 2.4 The overview of Indonesia's carbon market potential

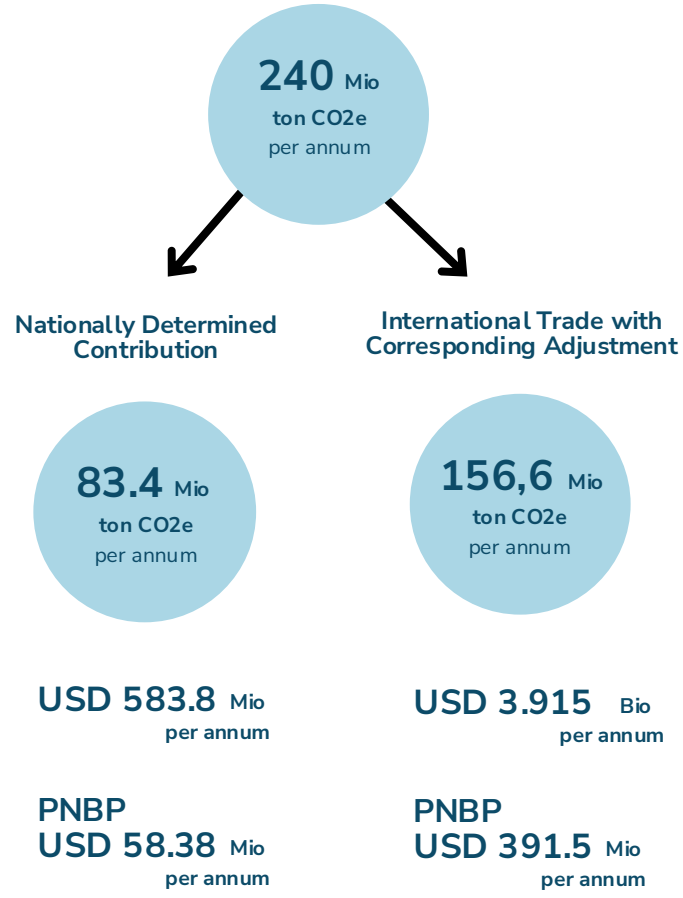
CARBON TRADING & CO-BENEFITS ACCELERATION STRATEGY

COMPONENT
CLIMATE
NATURE
BASED

MEDIUM TERM BENEFIT(101-720 DAYS)

ROAD TO ENHANCED NDC 31,89% BY 2030



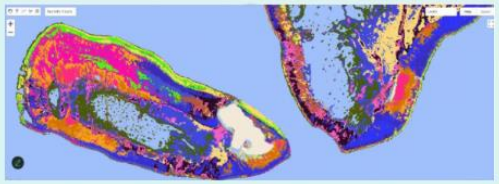


Indonesia's Blue Carbon Potential

Regulatory Readines

Lokasi Perencanaan & Registrasi

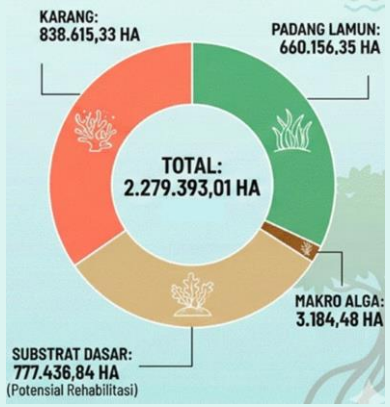




NSPK& Regulasi Diterbitkan

- Manual Pengukuran Karbon Biru Padang Lamun (Proses Kepmen KP)
- Kepdirjen 32 Tahun 2025 tentang Pokja Penyusunan Informasi Terumbu Karang & Padang Lamun Nasional
- Kepdirjen PK 26 2025 tentang Kerangka Metodologi Kuantifikasi Pengurangan Emisi Dan Peningkatan Serapan Karbon Dari Ekosistem Lamun
- Kepdirjen PKRL 45 2024 tentang Pedoman Teknis Penyusunan Informasi Geospasial Habitat Bentik Laut Dangkal

Update Nasional Habitat Bentuk Laut Dangkal

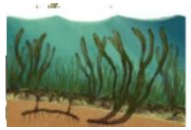


Potensi Karbon Biru Indonesia



Ekosistem mangrove adalah ekosistem hutan pesisir yang tumbuh di daerah pasang surut dan menyimpan banyak karbon di tanah dan akar.
Fungsi: Penahan sedimen, pelindung pantai dari abrasi, penyerap dan penyimpan karbon di lapisan tanah mineral dan organik, tempat hidup habitat pesisir.

Luas: 3,44 juta Ha
(Data: Kemenhut,2024)



Ekosistem padang lamun adalah ekosistem tumbuhan laut yang hidup di dasar laut dangkal dan menyerap karbon dari air serta menyimpannya di sedimen.
Fungsi: Penstabil sedimen, penyerap dan penyimpan karbon di sedimen, tempat hidup habitat dan sumber makanan biota laut, peningkat kualitas air, peredam energi gelombang.

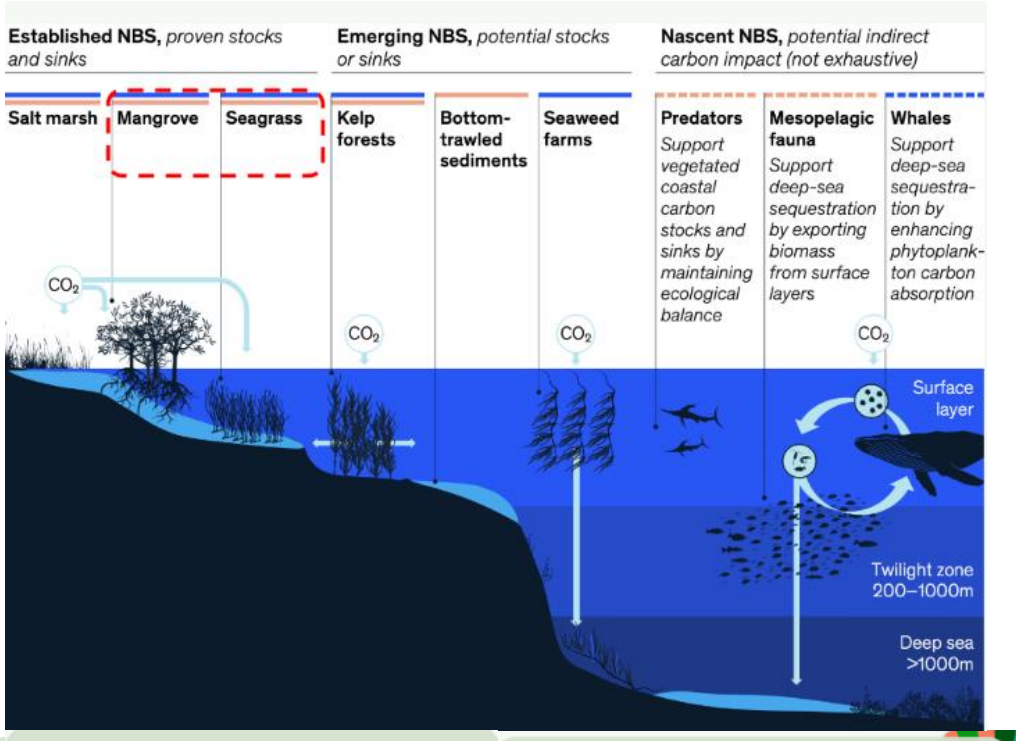
Luas: 660 ribu Ha
(Indonesia Seagrass Mapping Partnership, 2025)



Ekosistem rawa asin pasang surut adalah lahan pasang surut yang ditumbuhi rumput atau semak tahan garam dan menyimpan karbon di tanah basahnya.
Fungsi: Penyaring polutan, penyerap karbon di tanah payau, penjaga kestabilan garis pantai.

Luas: 20 ribu - 2 juta Ha
(Berbagai penelitian)

Reality



Manfaat Solusi Berbasis Alam Mangrove

- Perlindungan gelombang badai, banjir, dan garis pantai dari erosi sepanjang **96,55 Km² (DKP Aceh, 2012)**
- Habitat keanekaragaman hayati laut dan darat, terdapat **48 spesies mangrove di Indonesia (FAO, 2007)**
- Peluang ekonomi melalui pariwisata dan rekreasi
- Penyediaan sumber daya untuk masyarakat setempat (Nelayan)



Mangrove global seluas **14.735.900 ha** dapat menyimpan **22.86 GT CO2 eq** (Global Mangrove Alliance 2022)

IDCTA

Source : KKP and Kemenko Pangan RI

Opportunities and Prospects for Carbon Trading in Indonesia



Indonesia has taken significant steps to strengthen the supply side of its carbon market, supported by a continuously evolving policy framework and the active participation of various parties.



Strengthening cross-sectoral collaboration between government, private sector and community.



Maintaining market integrity to build long-term trust

1. **Big Potential of Carbon Supply Potential:** Indonesia is one of the countries with the largest natural carbon credit potential in the world;→ including the significant opportunities from **Blue Carbon**, Indonesia is an archipelagic country and has the second longest coastline in the world.
2. **Increasing Domestic and International Market Demand:** a) Companies with emissions targets (mandatory or voluntary); b) Other countries seeking carbon credits for their NDC targets.
3. **Access to Global Climate Finance:** Opportunities to utilize various international funding schemes.
4. **Technology Innovation:** Developments in renewable energy, energy efficiency, and CCS/CCUS technologies.
5. **Regional Market Development:** Indonesia's potential to become a carbon market hub in the ASEAN region.
6. **Increasing Global Awareness and Commitment:** Encouraging more investment and collaboration.

Ministry of Forestry Republic of Indonesia

EMBRACING CARBON MARKET AS INNOVATIVE FINANCING









Potentials CO_2 2024 - 2050

13,4 Billion

tons CO_2 eq

Indonesia's forests stand among the world's most sought-after sources of high-quality forest carbon credits

Source: BloombergNEF, Indonesia Transition Factbook (2025)

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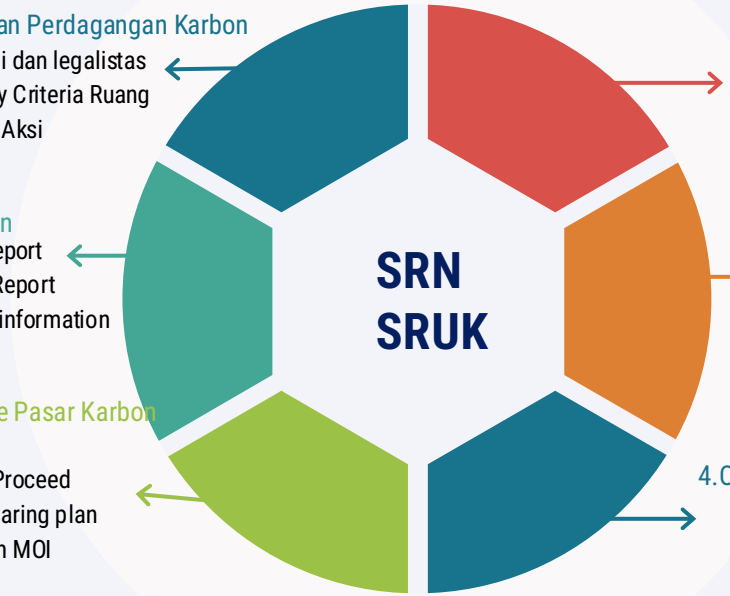
Carbon Economy Ecosystem Landscape

Carbon Market Landscape

Carbon Economy Ecosystem Landscape

Regulatory

RUANG LINGKUP/ TAHAPAN	Supply Kredit Karbon	Registry dan Penerbitan Sertifikat (Otorisasi & CA)	Transaksi;Pasar Primer;Pasar Sekunder
RISIKO; VURNERABILITY; CRIME	- Company Crime (Tindak Pidana Korporasi) - Individual Crime - Penipuan Investasi Karbon - Leakage Fraud - Organized Crime Infiltration - Sabotase dan intimasi Lokal - FPIC;FRGM - Pemalsuan data proponent/proyek	• Cyber Crime (phising/hacking) • Pemalsuan Surat • Kualitas Verifikasi;LVV • MRV Manipulatif • Over crediting (pengkreditan berlebih) • Transaksi Digital Lintas Negara	• Missing Trader Fraud (MTF) • Penjualan Kredit ganda • Pencucian uang • Over crediting (pengkreditan berlebih • Hawala Transaction • Beneficial Owner & Beneficieris (Sosial)
OPSI SAFEGUARDS	➢SATGAS PENANGANAN RISIKO PERDAGANGAN KARBON ➢PEDOMAN MANAJEMEN RISIKO DENGAN MULTIDOOR APPROACH ➢PENGEMBANGAN DATA HUB NASIONAL		
	• Pedoman Manajemen Resiko Sektor/Sub Sektor • Pedoman pengaturan MRA	• Penguatan Security Digital Sistem SRN • Opsi Block Chain	• Pengembangan Transaksi yang mempermudah penanganan kasus kejahatan karbon
KERANGKA REGULASI	UU Pemberantasan Tipikor		
	• UU Sektor Kehutanan (UU 41/1999;UU 18/2013; UU 32/2024;UU32/20090;UU1/2014;37/2014) • KUHP • UU Pasar Modal • UU TPPU	• UU ITE • 378; 372 KUHP	• UU ITE • UU Pemberantasan Tipikor • UU Pasar Modal



1.Peta Jalan Perdagangan Karbon
- Otorisasi dan legalistas
- Eligibility Criteria Ruang Lingkup Aksi

2.Daftar aksi mitigasi prioritas
- Otorisasi Pelaksanaan Aksi Proyek
- Pelaksanaan Aksi Proyek
- Safeguards

3.Skema Sertifikasi
- Metodologi
- UNFCCC Scheme
- Party Scheme
- Independent Crediting Scheme
- LCAM Validasi Verifikasi

4.Otorisasi Pemanfaatan Kredit Karbon
- Issuance
- PNBP
- Persetujuan/Rekomendasi
- Otorisasi/CA

5.Mekanisme Pasar Karbon
- Transaksi
- Share of Proceed
- Benefit sharing plan
- Penetapan MOI

6.Pelaporan
- Initial Report
- Annual Report
- Regular information

Effective Monetization

- Baseline scenario
- Climate mitigation: Science-based justification
- Additionalities
- Leakage
- Permanence
- Co-benefits
- Safeguard

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Source : Kementerian LH RI

Indonesian Regulatory Landscape


Roadmap


Mitigation action priority list


Certification scheme


Carbon credit utilization authorization


Carbon Market mechanism


Reporting


Safeguard options: risk, vulnerability, potential carbon crime

Effective Monetization


Baseline scenario


Climate mitigation: Science-based justification


Additionalities


Leakage


Permanence


Co-benefits


Safeguard

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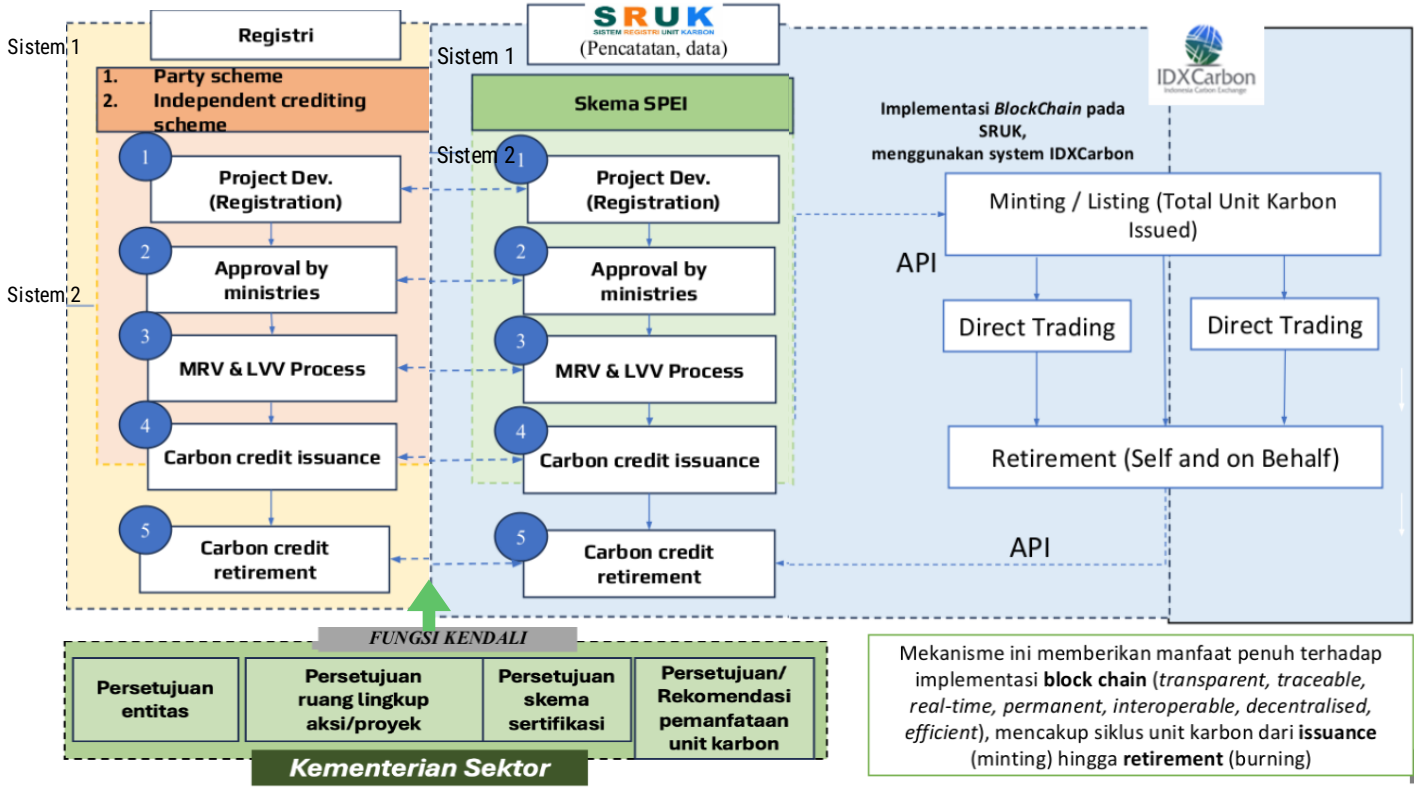
Indonesia’s blue carbon potential

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Carbon Market Landscape

Indonesian Regulatory Decentralization



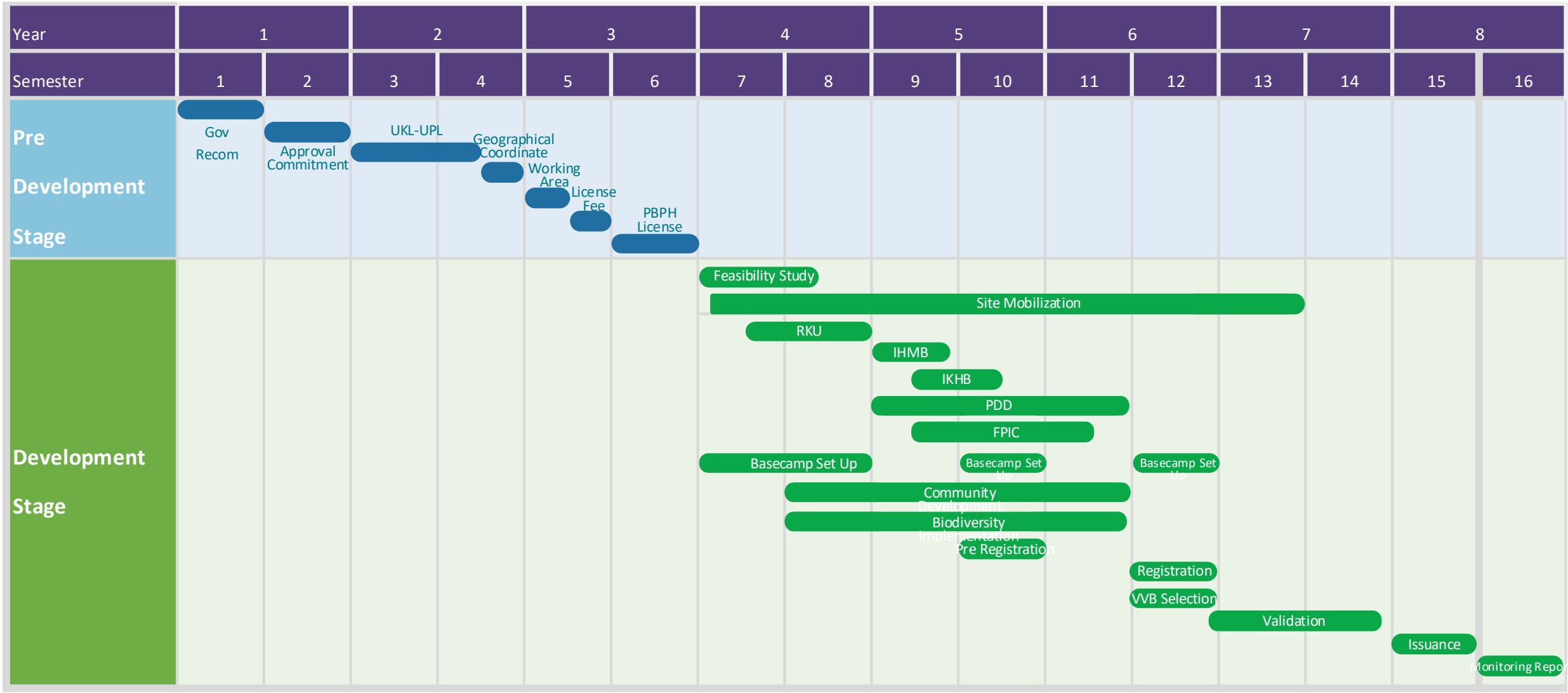
Reality Market Expectation

- Transparent
- Interoperability
- State of the Art Technology Based
- Efficient and Effective (Centralized)
- Financially Robust System
- Global Standard

IDCTA

Source : Kementerian LH RI

Summary of Existing Forestry Sector Timeline



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Takeaways

Blue Carbon Potentials

01

Needs more in depth studies to optimize Indonesia's FOLU potential. For Blue Carbon potentials in particular coordination with Ministry of Maritime Affairs & Fisheries is essential to achieve a more realistic Road Map

Carbon Economy Ecosystem Landscape

02

Must be adaptive, innovative, and realistic to accelerate NDC Target achievement as well as revenue for the prosperity of Indonesians

Carbon Market Landscape

03

Must meet globally accepted standards technically, as well as financially and legally attractive to market

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GCC has extensive experience in Registration, Verification and Accreditation of Carbon Credits

GLOBAL CARBON COUNCIL

ICROA
International Carbon Reduction & Offset Alliance



Thank you





IDCTA

Web: idcarbontrade.org

IG: idcta.official

Linkedin: Indonesia Carbon Trade Association