

# The Importance of Community Involvement in Carbon Market

YANI WITJAKSONO

August 20, 2024



**YAYASAN  
BINA USAHA  
LINGKUNGAN**

# Why community should aware...

Indonesia's position among other countries

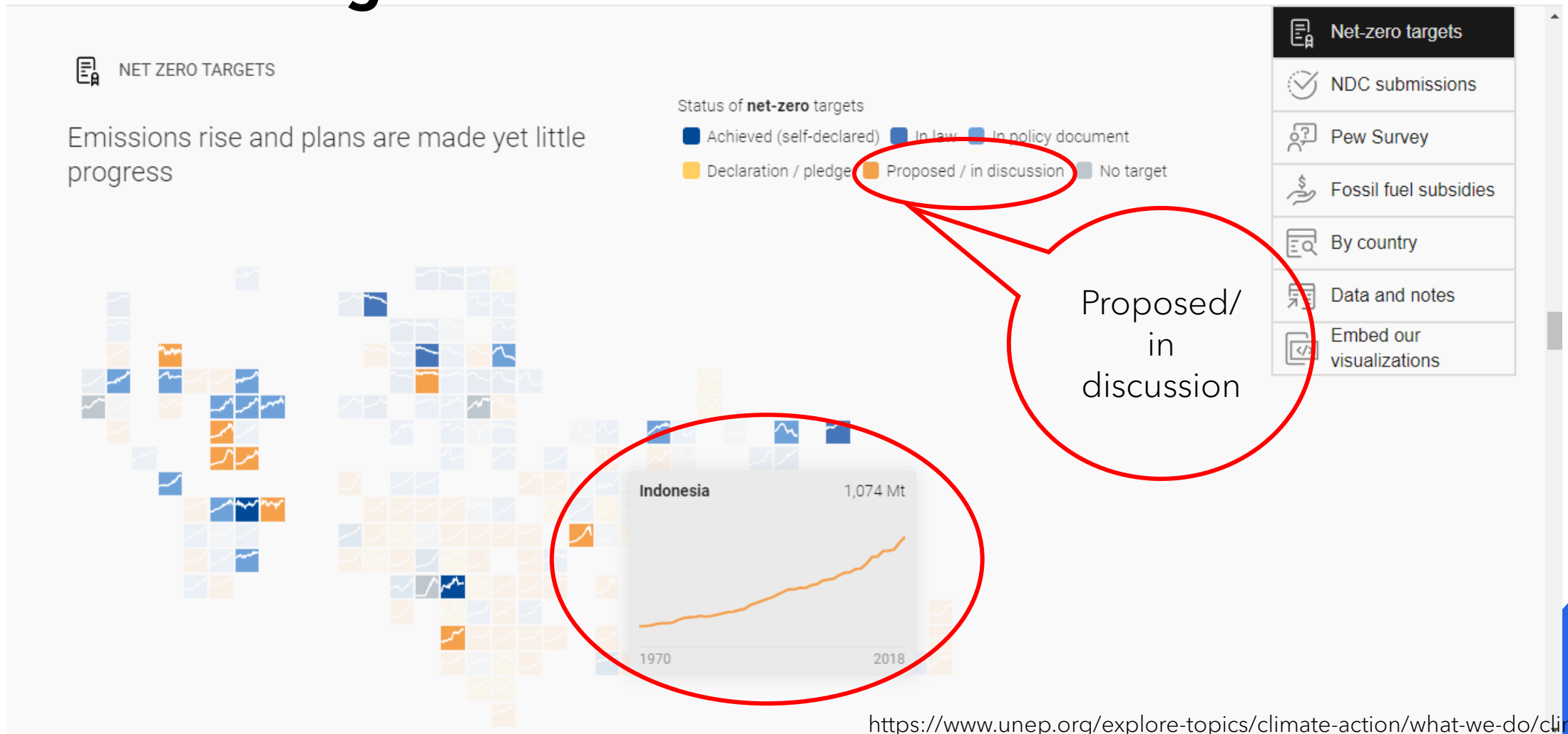
<https://www.unep.org/explore-topics/climate-action>

29% (unconditional) and up to 41% (conditional) by 2030 compared to the business as usual scenario  
26% (unconditional) reduction in GHG emission by 2020 compared to the business as usual scenario

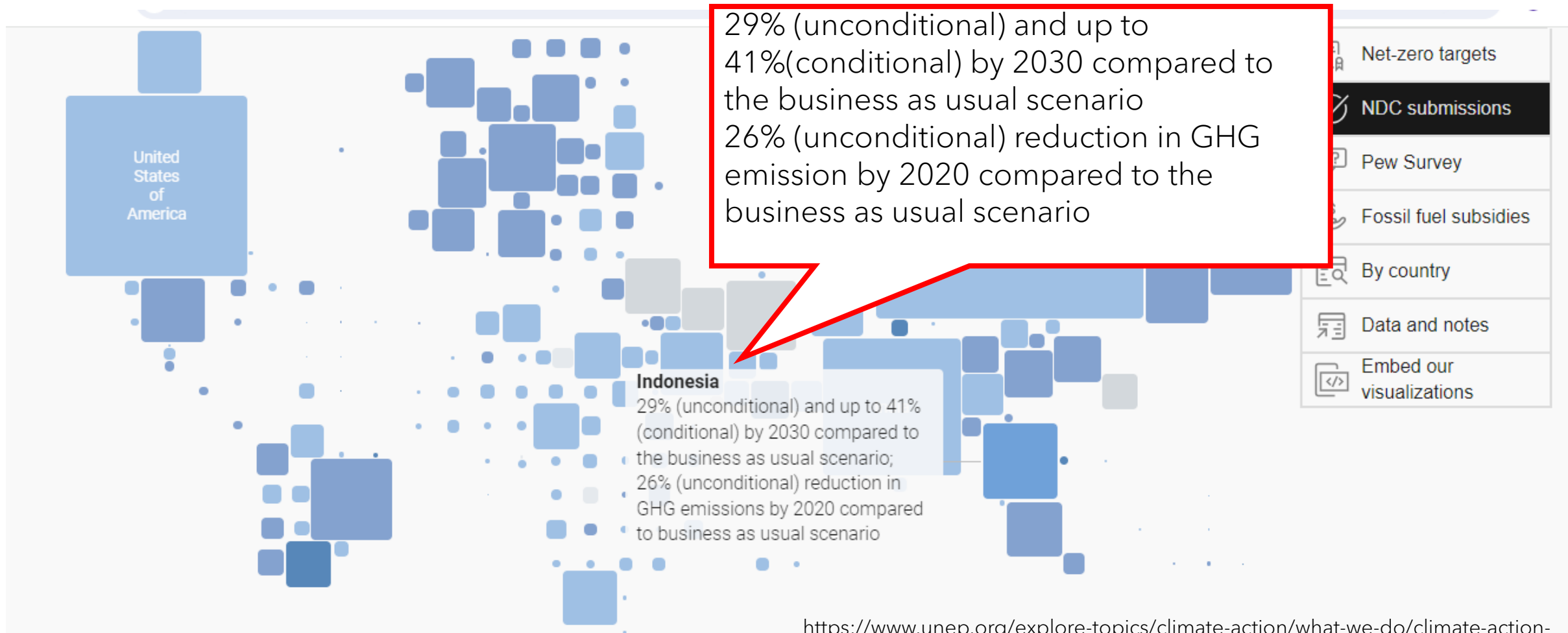
<b>Iceland</b>	Economy-wide net reduction of at least greenhouse gas emissions by 2030 compared to 1990				
<b>India</b>	33% to 35% reduction in emissions intensity of its GDP by 2030 compared to 2005 level	Only First NDC	In policy document	2030	
<b>Indonesia</b>	29% (unconditional) and up to 41% (conditional) by 2030 compared to the business as usual scenario; 26% (unconditional) reduction in GHG emissions by 2020 compared to business as usual scenario	Only First NDC	Proposed / in discussion	2060	
<b>Iraq</b>	1% (unconditional) to 14% (conditional) reduction in GHG emissions by 2035 compared to the BAU scenario	Only INDC	No target	—	

- By country
- Data and notes
- Embed our visualizations

# Indonesia's position Net Zero Target



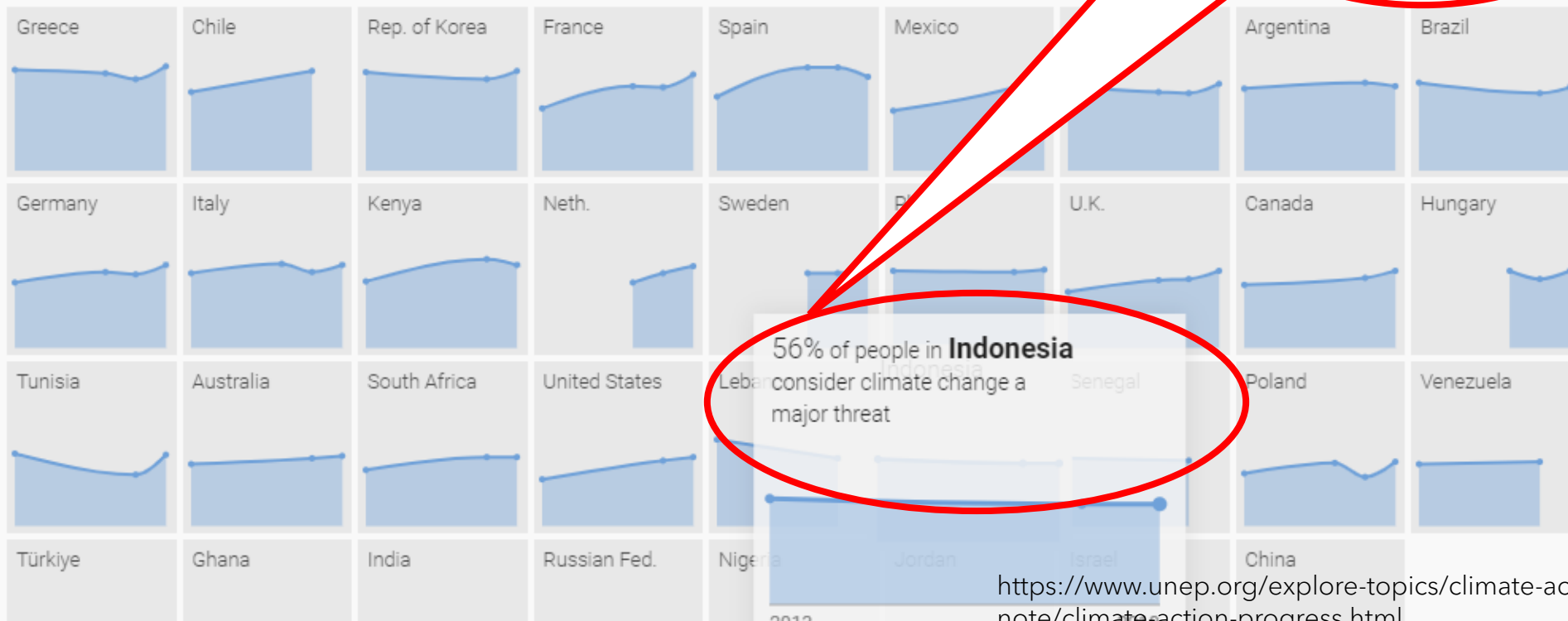
# Indonesia's position NDC Submissions



# Indonesia's position Pew Survey

PEW SURVEY

People want climate action now



56% of people  
in Indonesia  
consider  
climate change  
a major threat

- Net-zero targets
- NDC submissions
- Pew Survey**
- Fossil fuel subsidies
- By country
- Data and notes
- Embed our visualizations

# Milestones



01

Sustainability report for public companies, including actions on emission reduction Starting 2019

03

## EU CBAM Trial

Carbon Border Adjustment Mechanism Trial for iron & steel, aluminum, cement, fertilizers, electricity and hydrogen Starting October 2023

05

## EU CBAM

Carbon Border Adjustment Mechanism for iron & steel, aluminum, cement, fertilizers, electricity and hydrogen Starting 2026



**IDXCARBON**  
Indonesia Carbon Exchange

September 26, 2023

02

## Carbon Tax

Rp30 per kilogram CO<sub>2</sub>e Starting 2025

04

With the launching of IDXCarbon on September 26, 2023, the trading products being traded are carbon quotas from sectors that meet the PTBAE-PU\* requirements and carbon credits or SPE-GRK\*\*.

To participate in carbon exchange, all entities, whether emitters or not, must obtain permission from the National Registry System (SRN) which is managed by the Ministry of Environment and Forestry as a national emissions database and validates the credibility of products and participants involved in carbon exchange.

\*PTBAE-PU = Persetujuan Teknis mengenai Batas Atas Emisi GRK for company

\*\*SPE-GRK = Sertifikat Pengurangan Emisi GRK, Certificate issued by SRN PPI

## POTENSI EKONOMI KARBON INDONESIA

Pemerintah menyiapkan sejumlah strategi untuk menurunkan emisi gas rumah kaca 29-41% pada 2030. Salah satunya melalui nilai ekonomi karbon (*carbon pricing*).

SLIDE 01: PP NOMOR 98 TAHUN 2021, KEMENKUMH, KEMENTERIAN ESDM, KEMENKO MARVES, KATADATA.CO.ID  
HASRAT: GINDY NUTIA ANNUR, DESAIN: VERTY ANODAR

### POTENSI PENDAPATAN

**US\$565,9  
miliar**  
(±Rp8.000 triliun)

• **113,18**  
gigaton total  
penyerapan  
emisi karbon

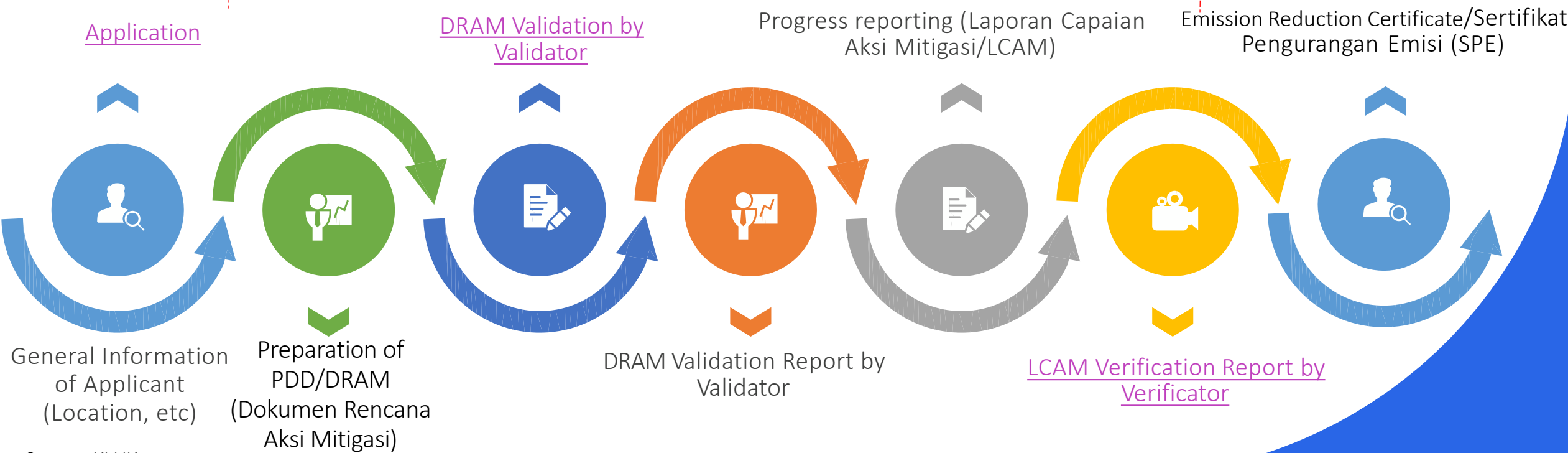
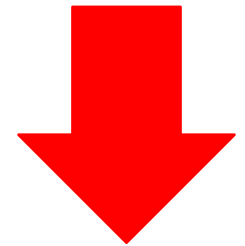
• **US\$5**  
per ton CO<sub>2</sub>  
proyeksi  
harga karbon



Source: Katadata.co.id

# How to participate

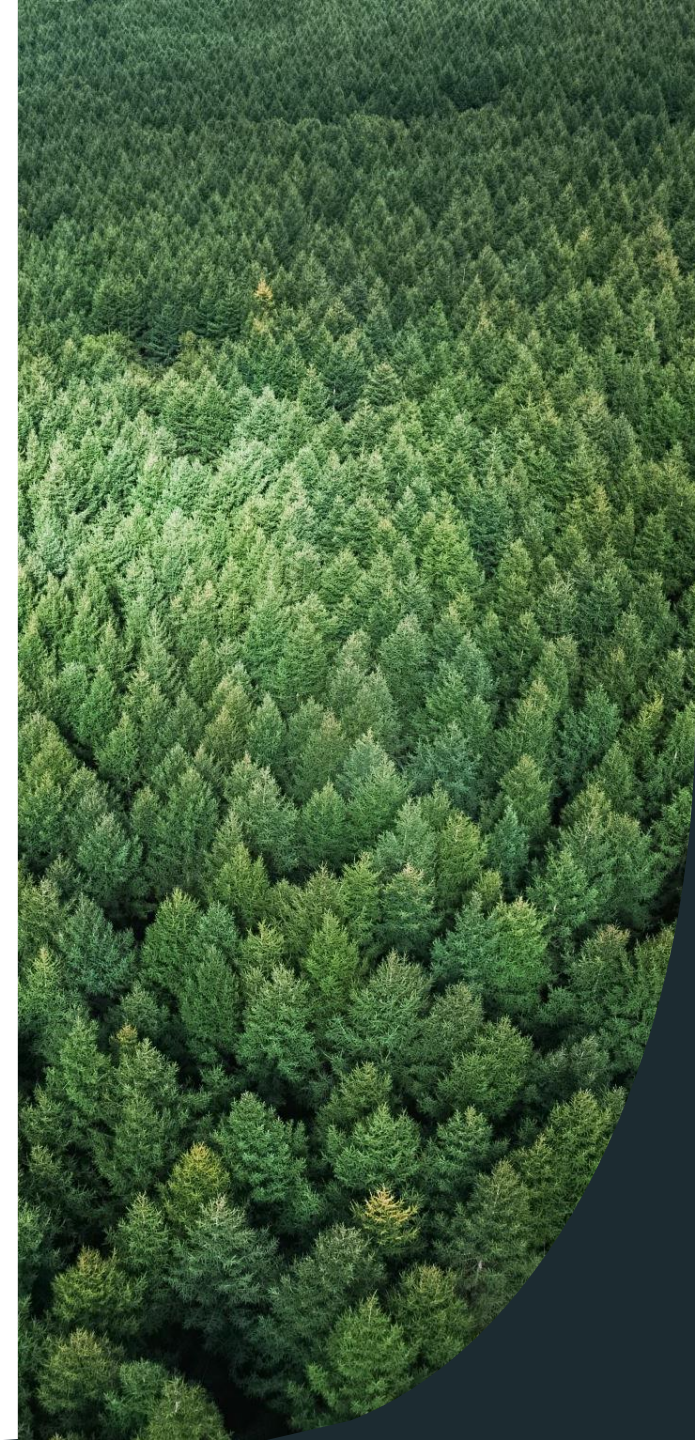
Refer to Sistem Registri Nasional PPI Procedure





# Carbon Offset Projects

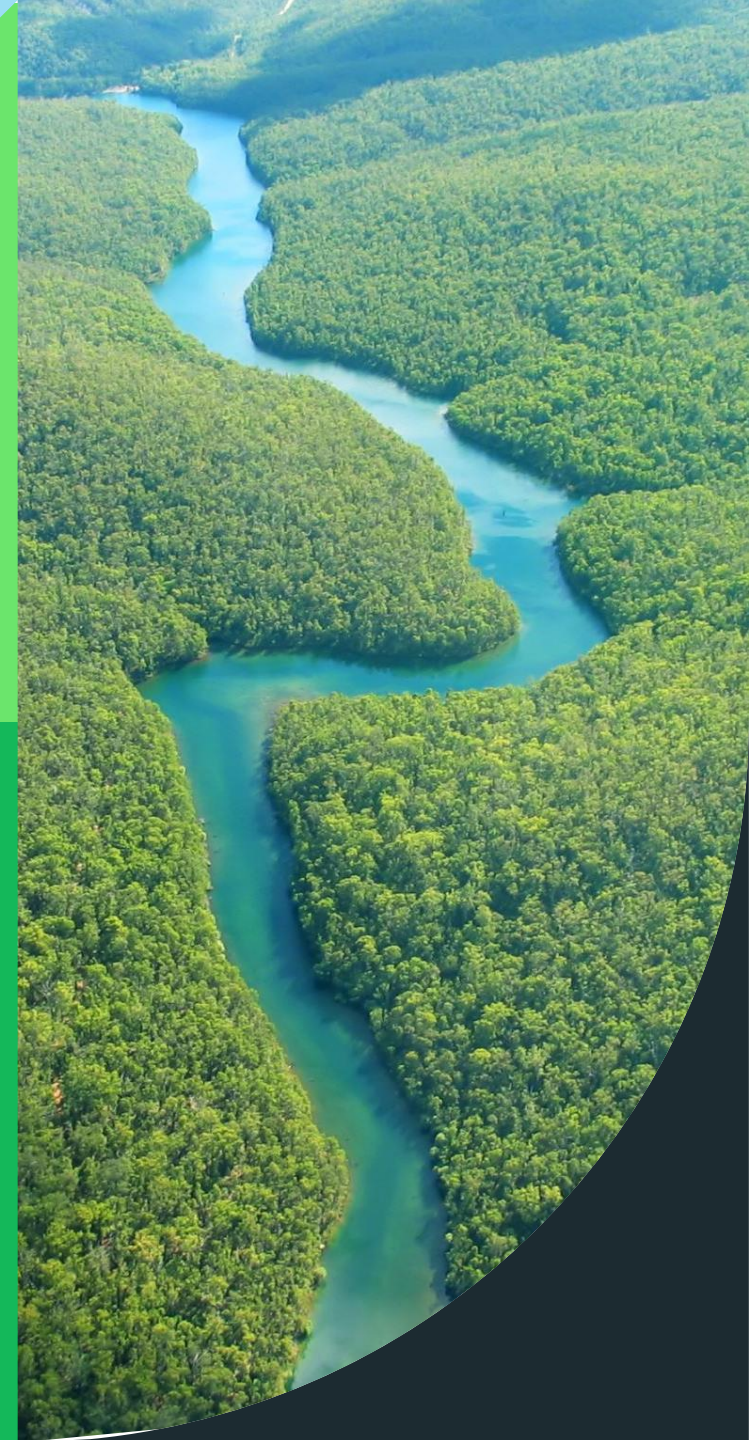
- Nature-Based Solutions
  1. **Forestry:** Projects focusing on reforestation, afforestation, preventing deforestation, and sustainable forestry.
  2. **Agriculture:** Projects like Regenerative agriculture, livestock and fertilizer management, 'Agroforestry' – (trees are planted in the same land areas used for crops or livestock); and restore and avoid the conversion of grasslands.



## **Carbon Offset Projects**

- Nature-Based Solutions

3. **Blue Carbon:** Projects focusing on carbon stored in coastal and marine ecosystems, include mangroves restoration and conservation, other wetlands ecosystems such as seagrass or kelp.



# Carbon Offset Project

- Non-Nature Projects
  1. **Renewable Energy:** Projects like the construction or upkeep of solar, wind, biomass, geothermal and ocean energy plants
  2. **Energy Efficiency:** Projects that lowering the energy consumption, because lower energy consumption means lower carbon emissions.
  3. **Waste Management:** Project involves capturing methane and converting it into a reliable energy source.



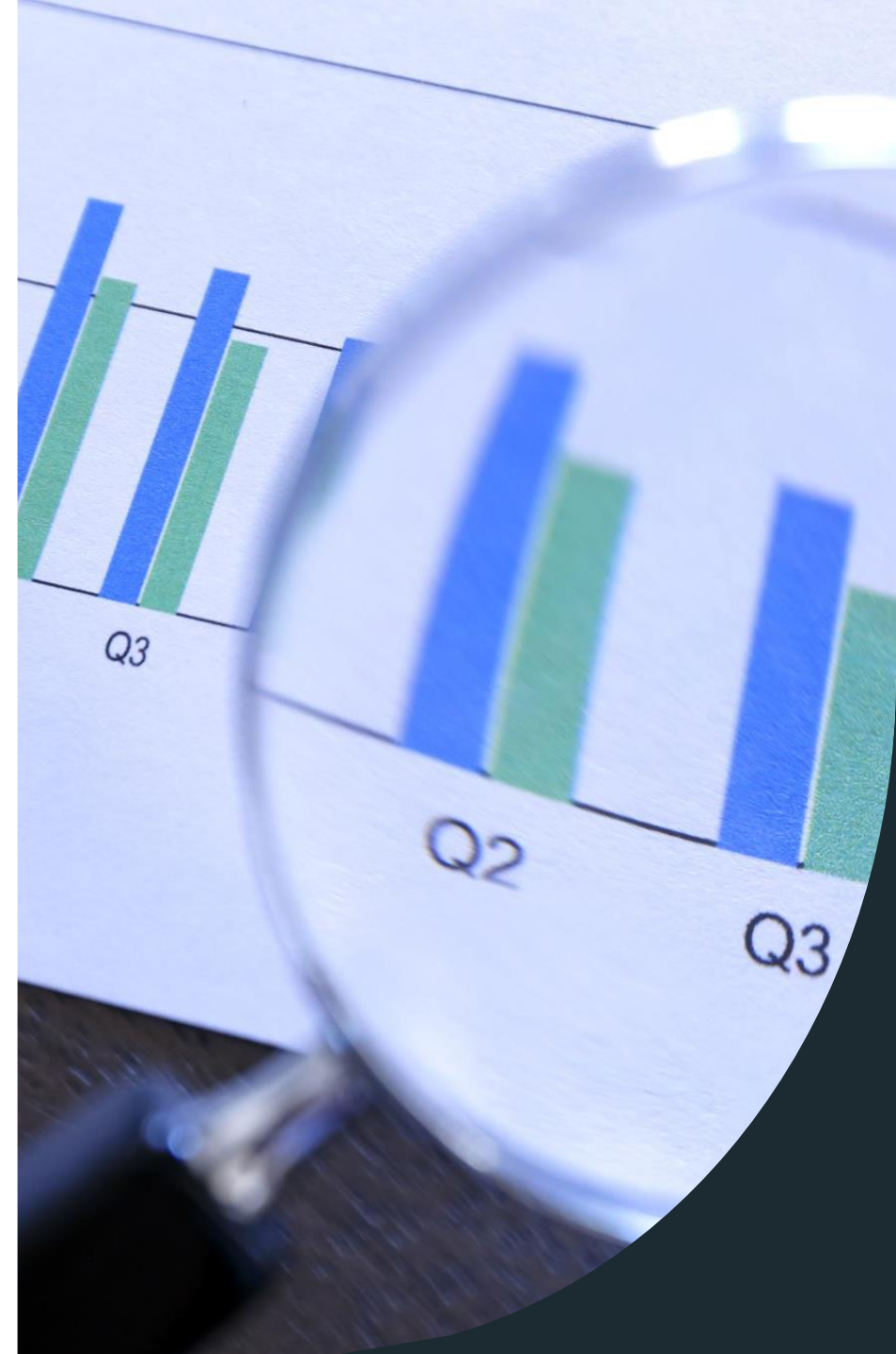
# Benefits

- Increasing transparency & accountability in GHG emissions
- Enable to monitor progress on emission reduction actions to set up mitigation strategy & policy
- Increasing credibility & competitive advantage
- As part of the Sustainability Report



## Benefits

- Identify the opportunity in Carbon Credit
- Required by financing institutions
- Comply to investor reporting guidelines by Government
- Participating in Climate Change actions



# Thank you

YANI WITJAKSONO

August 20, 2024



**YAYASAN  
BINA USAHA  
LINGKUNGAN**

# Carbon Border Adjustment Mechanism

- The EU's Carbon Border Adjustment Mechanism (CBAM) is the EU's tool to put a fair price on the carbon emitted during the production of carbon intensive goods that are entering the EU, and to encourage cleaner industrial production in non-EU countries.
- CBAM's principle is that the same CO<sub>2</sub> price applies to imported and EU -manufactured products
- Sectors: iron & steel, aluminum, cement, fertilizers, electricity and hydrogen



# Sistem Registri Nasional PPI Website

<https://srn.menlhk.go.id>

## Sistem Registri Nasional Perubahan Iklim

SRN PPI adalah sistem pengelolaan, penyediaan data, dan informasi berbasis web tentang aksi dan sumber daya untuk Mitigasi Perubahan Iklim, Adaptasi Perubahan Iklim, dan Nilai Ekonomi Karbon (NEK) di Indonesia.

Daftarkan kegiatan anda sebagai bentuk kontribusi dalam upaya meningkatkan ketahanan nasional dan mencegah kenaikan suhu bumi tidak lebih dari 2°C hingga 1,5°C dari tingkat suhu praindustrialisasi.



*Awareness!!*

Pendaftar

**3.883**

Total Penanggung Jawab

Aksi Mitigasi (2022)

**429,36** Juta

Capaian Pengurangan Emisi

Persetujuan Teknis Batas Atas Emisi Pelaku

Sertifikat Pengurangan Emisi

Kegiatan Aksi Perubahan Iklim

**13.281**

Total Kegiatan Terdaftar

**292**

Teregister

**182**

Terverifikasi

Inventory (2022)

**1.228,72**

CO<sub>2</sub>e

Tingkat Emisi

### Data Aksi Perubahan Iklim

Pendaftar

Kegiatan Terdaftar

Teregister

Terverifikasi

Show 10 entries

Cari Pendaftar

reset

Nama Lembaga	Jenis	Provinsi	Kabkota	Narahubung
SMPN 2 Karangsambung	Lain - lain	JAWA TENGAH	KEBUMEN	Dany Kristiyanto, S.Pd
SMP Islam Al Hadi Mojolaban Sukoharjo	Lain - lain	JAWA TENGAH	SUKOHARJO	Tumaji, S.Pd
SMK Negeri 1 Karanganyar	Pemerintah Provinsi	JAWA TENGAH	KEBUMEN	Khanif Nasrudin
komunitas aksi	Lain - lain	D I YOGYAKARTA	SLEMAN	Yuliyanta, S.Pd., M.M.
SMA NEGERI 3 TEGAL	Lain - lain	JAWA TENGAH	TEGAL	Veri Fanani Muharromah



## **Lembaga Validasi dan Verifikasi (Validator & Verificator)**

1. [PT Mutuagung Lestari](#)
2. [PT TUV Rheinland Indonesia](#)
3. [PT TUV NORD Indonesia](#)
4. [PT SUCOFINDO](#)
5. [PT Abhipraya Bumi Lestari](#)



# Validation & Verification Scope

a. Verifikasi Laporan Emisi (LE)

- Combustion of Fossil Fuels (01.01)
- Forestry and Other Land Use 01.03)

b. Validasi Dokumen Rencana Aksi Mitigasi (DRAM)

- Energy Industries (renewable/non-renewable sources) (02.01)
- Energy Distribution (transmission & distribution) (02.02)
- Energy Energy Demand (users) (02.03)
- Manufacturing Industries (02.04)
- Waste Handling and Disposal (02.14)
- Forestry and Other Land Use (02.15)
- Agriculture (02.16)

C, Verifikasi Laporan Capaian Aksi Mitigasi (LCAM)

- Energy Industries (renewable/non-renewable sources) (03.01)
- Energy Distribution (transmission & distribution) (03.02)
- Energy Demand (users) (03.03)
- Manufacturing Industries (03.04)
- Waste Handling and Disposal (03.14)
- Forestry and Other Land Use (03.15)
- Agriculture (03.16)

# Validation & Verification Scope

a. Verifikasi Laporan Emisi (LE)

- Combustion of Fossil Fuels (01.01)
- Refining of Mineral (01.02)
- Forestry and Other Land Use (01.03)

b. Validasi Dokumen Rencana Aksi Mitigasi (DRAM)

- Energy Industries (renewable/non-renewable sources) (02.01)
- Energy Distribution (transmission & distribution) (02.02)
- Energy Energy Demand (users) (02.03)
- Manufacturing Industries (02.04)
- Chemical Industry (02.05)
- Transport (02.07)
- Chemical Production (02.08)
- Waste Handling and Disposal (02.14)
- Forestry and Other Land Use (02.15)
- Agriculture (02.16)

c. Verifikasi Laporan Capaian Aksi Mitigasi (LCAM)

- Energy Industries (renewable/non-renewable sources) (03.01)
- Energy Distribution (transmission & distribution) (03.02)
- Energy Demand (users) (03.03)
- Manufacturing Industries (03.04)
- Chemical Industry (03.05)
- Transport (03.07)
- Chemical Production (03.08)
- Waste Handling and Disposal (03.14)
- Forestry and Other Land Use (03.15)
- Agriculture (03.16)

# Validation & Verification Scope

a. Verifikasi Laporan Emisi

- Combustion of Fossil fuels (01.01)
- Refining of Mineral (01.02)
- Forestry and Other Land Use (01.03)

b. Verifikasi Laporan Capaian Aksi Mitigasi (LCAM)

- Energy Industries (renewable/ non-renewable sources) (03.01)
- Energy Distribution (transmission & distribution) (03.02)
- Energy Demand (users) (03.03)
- Manufacturing Industries (03.04)
- Chemical Industry (03.05)
- Transport (03.07)
- Chemical Production (03.08)
- Metal Production (03.10)
- Fugitive Emissions from Fuels (solid, oil and gas) (03.11)
- Forestry and Other Land Use (03.15)
- Agriculture (03.16)

# Validation & Verification Scope

## PT SUCOFINDO:

- a. Verifikasi Laporan Emisi (LE)
  - Combustion of Fossil fuels (01.01)
- b. Validasi Dokumen Rencana Aksi Mitigasi (DRAM)
  - Energy Industries (renewable/non-renewable sources) (02.01)
  - Waste Handling and Disposal (02.14)
  - Forestry and Other Land Use (02.15)
- c. Verifikasi Laporan Capaian Aksi Mitigasi (LCAM)
  - Energy Industries (renewable/ non-renewable sources) (03.01)
  - Waste Handling and Disposal (03.14)
  - Forestry and Other Land Use (03.15)

## PT Abhipraya Bumi Lestari:

- a. Validasi Dokumen Rencana Aksi Mitigasi (DRAM)
  - Waste Handling and Disposal (02.14)
- b. Verifikasi Laporan Capaian Aksi Mitigasi (LCAM)
  - Waste Handling and Disposal (03.14)