

TERMS OF REFERENCE

Carbon Digital Conference 2026

Plenary 8

The Digital Carbon Market: Transforming MRV with AI, Blockchain & Satellite Technology

Date: 8-9 December 2026

Venue: Sheraton Grand Jakarta Gandaria City
Jakarta, Indonesia

I. About CDC 2026

The Carbon Digital Conference (CDC) is the flagship annual international conference organized by the Indonesia Carbon Trade Association (IDCTA) to convene policymakers, market participants, investors, project developers, financial institutions, technology providers, and international organizations in advancing Indonesia's carbon market ecosystem.

Following the successful implementation of previous conferences, CDC2026 marks another important milestone as Indonesia enters a new phase of carbon market development. The implementation of the new Presidential Regulation No. 110/2025, the strengthening of Indonesia's National Registry System (SRN-PPI) and Unit Carbon Registry System (SRUK), increasing international cooperation under Article 6.2 of the Paris Agreement, and growing demand for high-integrity carbon credits have created significant momentum for Indonesia to become a regional carbon market hub.

However, despite abundant carbon resources, market growth continues to face several challenges, including:

- limited market liquidity;
- insufficient corporate demand;
- financing constraints for project development;
- evolving international compliance requirements;
- fragmented digital monitoring systems;
- the need for Internationally recognized methodologies and standards that aligns with Indonesia's unique landscape.

CDC2026 is designed to address these challenges by bringing together domestic and international stakeholders to accelerate market readiness, strengthen buyer confidence, mobilize investments, and expand international market access.

The conference also introduces several new initiatives, including the Carbon Bazaar, dedicated Indonesia–Japan collaboration sessions, business matching programmes, and discussions on innovative financing mechanisms to support the scaling of Indonesia's carbon economy.

II. Plenary Session Details

- **Title**

The Digital Carbon Market: Transforming MRV with AI, Blockchain & Satellite Technology

- **Description**

This session will explore how digital technologies are transforming Measurement, Reporting and Verification (MRV) in the carbon market, with a focus on the application of Artificial Intelligence (AI), blockchain, satellite technology, and other digital solutions to improve the accuracy, transparency, efficiency, and scalability of carbon project monitoring.

The discussion will examine how satellite-based observation and advanced digital technologies can strengthen the monitoring of carbon projects across diverse landscapes, including forests, coastal areas, and other ecosystems. Speakers will discuss how AI and satellite data can support emissions measurement, remote monitoring, change detection, and data verification, while blockchain and digital registries can enhance traceability, transparency, and the integrity of carbon credits throughout their lifecycle.

The session will also highlight practical applications and emerging innovations from Indonesia and international markets. Particular attention will be given to the challenges of integrating multiple data sources, ensuring data quality, establishing reliable digital MRV systems, and aligning technological solutions with regulatory and methodological requirements. Participants will gain insights into how digital infrastructure can strengthen confidence in carbon markets, reduce MRV costs, and support the development of a more transparent, scalable, and high-integrity carbon market.

- **Day, Date and Time**

Wednesday, 9 December 2026 at 2:35 PM - 3:30 PM

- **Place**

Sheraton Grand Jakarta Gandaria City Hotel
Jl. Sultan Iskandar Muda, Kebayoran Lama Utara,
Kec. Kebayoran Lama, Kota Jakarta Selatan,
Daerah Khusus Ibukota Jakarta 12240

- **Potential Panelists**

- Hainan Satellite *
- Ministry of Marine Affairs and Fisheries (KKP) *
- Space Intelligence *
- Yayang Ruzaldy — IDCTA *

**The above list of potential panelists is indicative and subject to confirmation.*

- **Moderator**

- PwC Indonesia *