



Carbon Storage and Management

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Strategic Advancement of Indonesia as a Regional CCS Hub: Bridging Innovation, Regulation, and Collaboration

Dr. Belladonna Troxylon Maulianda P.Eng.
Executive Director of Indonesia CCS Center



Indonesia CCS Center (ICCSC) is key to positioning Indonesia as a regional CCS hub, bridging government, regional partners, industry, and international allies to foster collaboration and innovation

To advance the development of Indonesia’s carbon capture and storage (CCS) technology, ICCSC is fully supported by the Coordinating Ministry for Maritime Affairs and Investment (CMMAI) with the aim of **establishing Indonesia as a key regional hub for CCS deployment**.

Our strategic roles in supporting CCS deployment



Upskilling

- Comprehensive technical competency
- Policy framework
- Business scheme



Market Intelligence

Providing regional carbon market intelligence to local CCS players



Practical Guidelines

Publishing practical guidelines to monetize carbon emissions



Commercial Services

Tailoring practical guidelines as consultancy services for local CCS players

Our role as a bridge between numerous CCS stakeholders

Government and institutions



Regional strategic partners

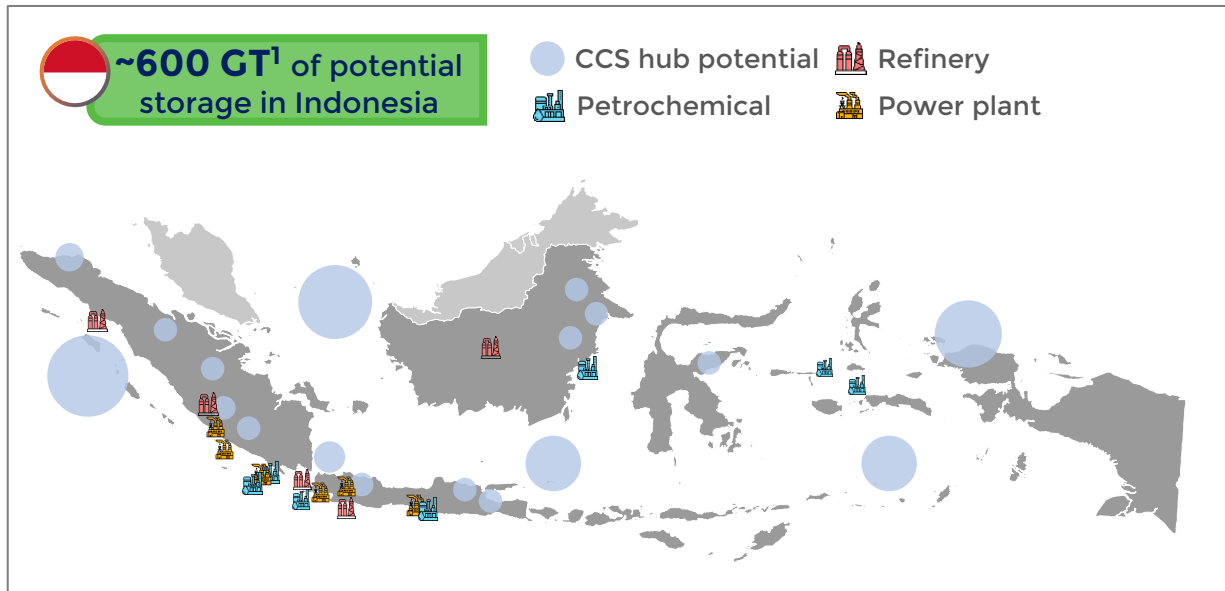


Industry players (ICCSC Corporate Members)



International strategic partners

Indonesia possesses significant advantages in the CCS sector, from abundant storage capacity to strategic geographic positioning, making it a strong contender in the global CCS landscape.



1. Exceeding the individual CO₂ emission reduction targets of Indonesia, Japan, and South Korea up to 2030, with each country's target falling below 0.9 GtCO₂e

With a high potential and several advantages, Indonesia's government and industry players has taken initiatives in entering the CCS value chain.

Competitive Advantages

Geographical Advantage

Strategic location and capacity that allows Indonesia to become designated regional CCS cross-border country through its proximity.

Partnership Advantage

Established international partnerships such as, CCS cross-border LOI with Singapore, and Indonesia CCS Center as a national think tank as an enabler.

Market Advantage

Rapid development with 15 pre-projects in total investment of ~28B USD, combined with great potential for low-carbon product development due to its strong downstream industry.



Indonesia is steadily developing a robust regulatory framework for CCS and international initiatives for CCS cross-border, essential for creating a stable environment that attracts investment and ensures the safe and effective implementation of CCS projects.

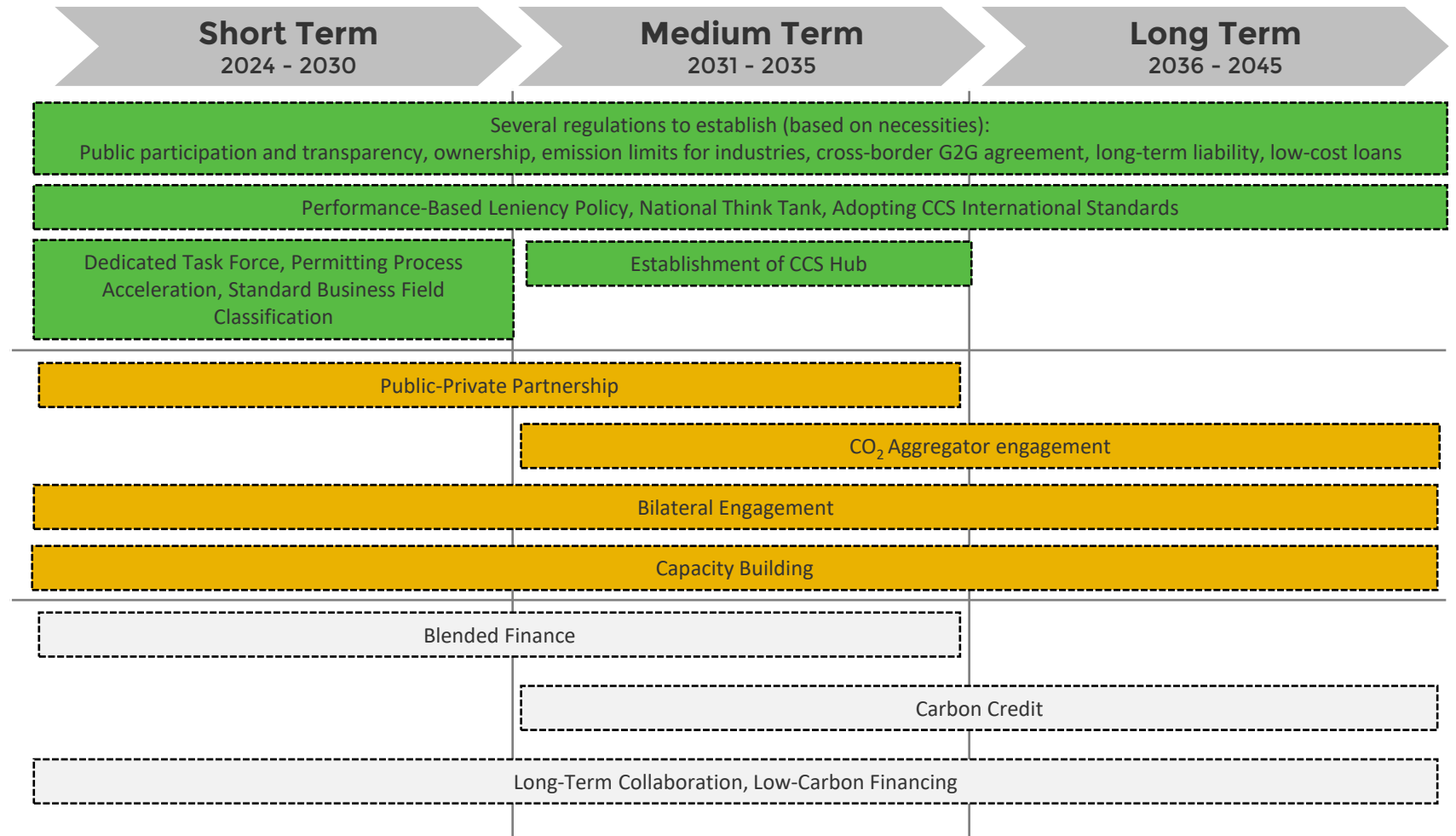
Current Policy Instruments			Actively Progressing
<p>Presidential Regulation 14/2024 on CCS</p> <p>Regulates the implementation of CCS by beyond, including injection operations in saline aquifers, cross-border CCS operations, detailed MRV process, CCS Task Force formation, and emissions trading</p>	<p>Ministry of Energy & Mineral Resources Regulation 2/2023</p> <p>Regulates CCS and CCUS implementation in upstream oil and gas activities, including the enforcement, implementation, MRV, and economic provisions</p>	<p>Presidential Regulation 98/2021 on Carbon Pricing</p> <p>Regulates carbon pricing to achieve NDC, includes the price administration, transparency framework, and guidance on financing</p>	<p>Regulatory Development</p> <ul style="list-style-type: none"> • Drafting of ministerial regulations derived from presidential regulations. • Standard Business Field Classification related to CO2 for CCS.
<p>Financial Authority Regulation 14/2023</p> <p>Regulates carbon trading in the Indonesia Carbon Exchange (IDXCarbon)</p>	<p>National Standards</p> <p>The published of technical standard for CCS operation by adopting ISO/TC 265: (focusing on geological storage)</p>	<p>SKK Migas Working Guidelines (PTK-070/SKKIA0000/2024/S9)</p> <p>On the management of CCS and CCUS at the oil and gas working areas of the cooperation contract contractors</p>	<p>International Collaborations</p> <ul style="list-style-type: none"> • Partnerships with UN Carbon Removal Lead, US DOE, Norway Embassy, Canada (University of Calgary), Australia (Global CCS Institute) • G2G bilateral MoU for cross-border CCS operations (current discussion with regional countries)

In collaboration with the World Bank, Indonesia SOEs, and government ministries, ICCSC has crafted a **detailed CCS roadmap**. This roadmap outlines the short, medium, and long-term strategy and initiatives aimed at ensuring the successful deployment and scaling of CCS in Indonesia

Strategy and Regulation

Partnership and Capacity Building

Funding





Key Takeaways

- 1 Indonesia is poised to become **the regional CCS hub**, leveraging its competitive advantages.
- 2 Significant progress has been made in **CCS cross-border initiatives**, supported by the establishment of **derivative regulations**
- 3 Indonesia is **open to collaborate** with other countries for CCS deployment