Press Release

Bangkok, February 5, 2026

Planet2050 and GIZ Thailand Sign Memorandum of Understanding for Carbon Dioxide Removal

- **Agricultural residues in Thailand will be converted into biochar for long-term carbon sequestration**
- **Selling carbon credits can finance projects and provide farmers with extra income**

Planet2050 and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in Thailand have signed a Memorandum of Understanding for the development and financing of permanent Carbon Dioxide Removal (CDR) projects. The partners utilize agricultural residues for biochar production. The cooperation combines climate action, additional income opportunities for farmers, and the international carbon market.

Planet2050 contributes expertise in climate finance, carbon markets, and digital certification. GIZ brings its long-standing experience in sustainable development in Thailand as well as networks with agricultural organizations and local authorities.

Biochar as an Opportunity for Agriculture and Climate Action

In Thailand, around 40 million tons of agricultural residues, such as rice straw and sugarcane bagasse, are generated annually. Heating these residues under oxygen-deprived conditions could produce up to 12 million tons of biochar. The process could theoretically enable the removal and sequestration of 16 million tons of carbon dioxide over the long term.

Biochar sustainably improves soil fertility and reduces emissions from burning crop residues. Furthermore, it can be utilized in concrete and road construction. Through access to the global carbon market, local smallholder farmers gain new and stable income streams.

Carbon Credits as a Financing Instrument

A core focus of the partnership is financing via international carbon markets. Following independent verification, verified carbon removals can be commercialized

in the form of credits. Digital Monitoring, Reporting, and Verification (dMRV) methods will document the climate impact and ensure transparency for buyers.

“Biochar technology provides an opportunity to use biomass waste as a strategic lever moving forward,” explains Lucas Zaehringer, CEO of Planet2050. "This approach could give farmers an additional source of income and an incentive to turn crop residues into biochar instead of burning them in the open."

Implementation with Local Partners

Planet2050 and GIZ Thailand intend to collaborate with agricultural organizations, government agencies, and research institutions. Climate impact, economic viability, and local implementation will be taken into account.

The Memorandum of Understanding establishes a framework for cooperation. Specific project scales, financial commitments, or implementation timelines have not yet been disclosed.

For further information on this topic, see the blog article at
planet2050.earth/blog/mou-giz

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About Planet2025

Planet2050 is an internationally active climate FinTech. The company connects high-quality carbon projects with the capital market. To achieve this, Planet2050 builds the required financial, data, and market infrastructure. At its core is the PlanetHub. The digital platform scales global carbon avoidance and carbon removal projects.

The company curates and finances promising climate projects. Both technology-based and nature-based methods are focused. These include techniques such as biochar, afforestation, and sustainable agriculture. Digital measurement methods (dMRV) monitor every climate project in the portfolio transparently for all stakeholders regarding actual carbon removal. Planet2050 consistently implements its capital market strategy. A direct listing on the stock exchange is planned for 2027. Trading admission remains subject to timely approval. The direct listing offers an exclusive window to enter the booming carbon market. Further information is available at www.planet2050.earth

Media Contact
Renate Christ, media@planet2050.earth, +49 176 30 17 32 67