

TCMA Advances â??Reimagining Carbonâ?• to Turn COâ?? into New Economic Opportunities

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BANGKOK, THAILAND â?? Media OutReach Newswire â?? 11 November 2026 â?? The Thai Cement Manufacturers Association (TCMA) is advancing its â??Reimagining Carbon: From Capture to Value Creationâ?• vision, positioning carbon management not only as a means of reducing industrial emissions but also as an opportunity to create new economic value through innovation, technology, and cross-sector collaboration.

Speaking at the Thailand CCUS Grand Forum 2026, Mr. Surachai Nimla-or, Chairman of TCMA, emphasized that achieving Net Zero 2050 in the cement industryâ??a hard-to-abate sectorâ??requires an integrated approach combining energy transition, materials innovation, advanced technologies, and supportive policies.

Through the Thailand 2050 Net Zero Cement and Concrete Roadmap, TCMA and its members are advancing key decarbonization pathways, including energy efficiency, clean energy, alternative fuels, and the transition toward lower-carbon cement products such as hydraulic cement and Limestone Calcined Clay Cement (LC3). As process emissions from clinker production cannot be fully eliminated through energy and fuel improvements alone, Carbon Capture, Utilization and Storage (CCUS) is an essential complementary pathway. TCMA sees Carbon Capture and Utilization (CCU) as a practical starting point for technology demonstration and value creation, while preparing for Carbon Capture and Storage (CCS) as part of the industryâ??s longer-term transition.

One notable example is the pilot deployment of a Mobile Carbon Capture Unit (MCCU), representing the first trial of this technology in Thailandâ??s cement industry, at the Saraburi Sandbox. The MCCU was developed by the Clean Energy Technologies Research Institute (CETRI), University of Regina, Canada, under the project â??Decarbonization of the Cement and Concrete Sectors in Thailand.â?• The project is supported by Environment and Climate Change Canada (ECCC), with the Global Cement and Concrete Association (GCCA) and Chulalongkorn University providing support, while the United Nations Industrial Development Organization (UNIDO) manages the project. The pilot will help build operational knowledge, assess technical and economic feasibility, and explore pathways for future industrial deployment.

Beyond capturing COâ??, TCMA is exploring opportunities to convert it into valuable products and applications, including low-carbon methanol and COâ??-cured construction materials such as fibre cement products and concrete blocks. These initiatives aim to connect carbon capture technology with product innovation and emerging markets.

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To unlock CCUS development in Thailand, five enabling factors are particularly important: 1) clear policy and regulatory frameworks; 2) finance and investment incentives; 3) shared infrastructure and cross-sector collaboration; 4) technology readiness and innovation; and 5) market demand and carbon value creation. Progress in these areas will help build investor confidence and support the transition from pilot projects to commercial applications.

CCUS also presents an opportunity to strengthen Thailandâ??s industrial capabilities and create new business opportunities in engineering, equipment, digital solutions, research, and workforce development. According to estimates referenced in Thailandâ??s CCUS Industrialization Master Plan, achieving COâ?? management capacity of approximately 60 million tonnes per year by 2050 could generate an estimated cumulative economic value of THB 1.06 trillion and support approximately 585,194 jobs during the period 2025â??2050.

â??The next step is to move from studies to action, from pilot projects to investment, and from collaboration to new economic opportunities. TCMA is committed to serving as a Climate Solutions Partner, connecting strategy, technology, research, and partners to transform the potential of carbon management into economic value and tangible outcomes for Thailand. Through its â??Reimagining Carbon: From Capture to Value Creationâ?? vision, TCMA aims to accelerate the Thai cement industryâ??s transition toward Net Zero 2050, while fostering innovation, strengthening competitiveness, and contributing to the countryâ??s sustainable growth,â?• Mr. Surachai concluded.

Source: Thai Cement Manufacturers Association (TCMA)

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