**Press Release**

**SCG to achieve Net Zero Cement & Concrete 2050,**

**explore innovation aligning with low carbon economy and eco-friendliness,**

**target net zero GHG emission in line with ESG**

**SCG**’s Cement and Green Solution Business, Cement and Building Materials Business strives to sustainably enhance Thailand’s construction industry to achieve **“Net Zero Cement & Concrete by 2050”.** This is implemented via the development of eco-friendly innovation both in product and process as well as business operations which are in line with the low carbon economy principles, targeting to arrive at a net zero greenhouse gas emission by 2050. Moreover, this involves circulating resources and wastes so they are revived for the utmost benefits. Additionally, collaboration with all related parties is underway on the path towards the green construction that aligns with ESG (Environmental, Social, and Governance) and SCG’s ESG 4 Plus, Aim net zero - Go green – Reduce inequality – Embrace collaboration, plus Fairness and Transparency.

**Mr. Chana Poomee, Vice President – Cement and Green Solution Business, Cement and Building Materials Business, SCG** explains that “owing to rising severity of environmental problems, SCG realizes its urgency and has issued business plans that conform with environmental concerns. The Cement and Green Solution Business has geared business directions towards 3 core strategies 1) Cement and Concrete that aims to reduce CO2 emission in the production process and manufacturing eco-friendly products. 2) Green Solutions that lead with technology and digitalization in project management to increase efficiency and uplift the construction industry. 3) Green Circularity that emphasizes the optimization of resource consumption with the “Turn Waste to Value” concept”. On the ground, SCG’s Cement and Green Solution Business, Cement and Building Materials Business, has established guidelines to achieving the targets as follows:

* **Developing low carbon products** such as SCG Hybrid Cement for structural work. This is Thailand’s first innovative eco-friendly cement with hydraulic cement standard which utilizes biomass and waste heat from the production process as fuel and alternative energy respectively. This helps to reduce CO2 emission in the manufacturing process by up to 0.05 tons CO2 for a ton of cement. Furthermore, CPAC Low Carbon Concrete can reduce CO2 emission in the manufacturing process by up to 17 kg CO2 for a cubic meter of concrete.

In terms of **innovative product development**, advanced materials such as CPAC Ultracrete and mortars for 3D printing are incorporated in construction projects to reduce resource consumption.

* **Developing Green Solutions and integrating digital technology for constructions** such as the *“CPAC Drone Solution”,* the solution for on-site surveys that are operated by experts who analyzes data and pre-design project plans. This contributes to the reduction of surveying time and error in construction works. The *“CPAC BIM”* or Building Information Modeling, digital technology for design precision. This promotes collaboration via a single collaborative platform among the related parties such as project owner, architect, contractor, and the community as well as the environment. The *“CPAC 3D Printing Solution”*, the 3D printing technology to explore design creativity that is diverse and prompt while saving on labor, cost, time, and reducing construction wastes from sites.
* **Revamping the production process to support renewable energy and alternative fuel usages** such asadoptingsolar power with solar farming and floating solar. Moreover, this extends to, Thailand’s first, transition towards using 60-tons electric vehicle mining trucks for limestone mines at the Siam Cement (Thung Song) Co.,Ltd.. This contributes to the reduction of GHG emission and PM 2.5 pollution, aligning with the Green Mining initiatives.

In practice, **Green Mining** is prioritized with the support from technologies such as drones and mine-site technology that is applied to production planning for quarry optimization.

* **Advancing projects for natural climate solutions** such as reforestation as carbon offset schemes by enhancing carbon sinks. At present, the “Panaruk” project, a collaboration with the Department of National Parks, Wildlife and Plant Conservation in the afforestation on 534 rai of land in Lamphun province. Moreover, **studies on carbon capture, utilization, and storage (CCUS) technologies are ongoing** to uncover state-of-the-art know-how that can capture CO2 in cement production processes.
* **Turning waste to value** in projects such as purchasing agricultural wastes from farmers in the northern regions of Thailand to alleviate agricultural waste burning, thus, reducing PM 2.5 haze. This is the endeavor for fuel management in 17 northern provinces’ forest lands of the Department of National Parks, Wildlife and Plant Conservation, Royal Forest Department, and Forest Industry Organization. The project welcomes the alternative fuels to cement plant of the Siam Cement (Lampang) Co.,Ltd.. This contributes to better living and increases income for over 300 members of the community.

Likewise, to further **uplift the community’s quality of life**, SCG places great importance on mine reclamation as a reservoir for water supply for local dwellers after the mining process is over.

Furthermore, to accelerate towards achievements, SCG continues to collaborate with various entities in Thailand, ASEAN, and globally. This includes the venture with the Thai Cement Manufacturers Association (TCMA) and Thailand Concrete Association (TCA) in developing the low carbon roadmap. Also, cooperation is established with the Global Cement and Concrete Association (GCCA) in adapting know-how and global practice to Thailand. It is well acknowledged that tangible and timely enhancement of the construction industry requires support from both government sector and the public sector, all of which, shall spearhead sustainable growth together.

SCG is dedicated to decrease GHG emissions throughout the business operations. This is as an effort to strengthen Thailand’s construction standards to be eco-friendly entire the value chain, following the ESG guidelines and arriving at the targeted “Net Zero Cement & Concrete by 2050”.

-------------------------------------------------------------------