**BBGI, in collaboration with SCGC and QTC, announces successful bio-based transformer oil trial, starting pilot implementation in Rayong Province, with plans for commercial expansion**

**Rayong – 31 May 2024 : BBGI, along with partners SCGC and QTC, announced another milestone in their environmental innovation collaboration or Green Innovation in the "Development and Production of Bio-Based Transformer Oil from Palm Oil" project. They successfully tested the oil in real transformers, meeting international standards, ensuring safe usage, and delivering it to customers for the first time in Rayong Province. They're now gearing up for commercial production expansion, helping reduce imports from foreign countries and carbon dioxide emissions, driving Thailand towards the BCG (Bio-Circular-Green Economy) policy for sustainable development. Bio-Based Transformer Oil from palm oil acts as electrical insulation and helps dissipate heat within transformers.**

The development and production of Bio Transformer Oil from palm oil align with the government’s clean energy and BCG (Bio-Circular-Green Economy) policies. It also supports Thailand Oil Palm Board’s aim to increase palm oil utilization through Bio Transformer Oil demand in Thailand. This initiative adds value to palm oil products, potentially supporting the country's main economic crop in the future and reducing the need for imported transformer oils. Currently, transformer manufacturers must import 100% of their bio-transformer oil from abroad for use.

**Mr. Kittiphong Limsuwannarot,** Chief executive Officer of BBGI Pcl. or BBGI,discussed the success of the Bio Transformer Oil project, a collaboration between BBGI Biodiesel Co., Ltd. (BBGI BI), SCG Chemicals Pcl. (SCGC), and QTC Energy Pcl. (QTC). He stated “the tested Bio Transformer Oil met international standards for High Fire Point transformer oils, or IEC 62770, ensuring high safety in usage. Moreover, it's biodegradable, making it suitable for actual transformer use, marking the first time in Rayong Province. The readiness for commercial expansion is on the horizon.”

**Mr. Sumet Charoenchaidet,** Central Research and Development Director of SCG Chemicals Pcl. or SCGC, emphasized the significance of the project, “SCGC, known for its expertise in green technology, utilized catalyst technology to transform palm oil into higher-value Bio-Based Transformer Oil. This development involved Open Innovation collaboration to leverage the potential of each sector efficiently, aiming to produce Bio-Based Transformer Oil from palm oil to meet global standards such as IEC 62770 and ultimately contribute to the bio-economy. This marks a significant step for Thailand's bio-economy, enabling the country to produce Bio-Based Transformer Oil domestically, thus promoting domestic substitution and reducing carbon dioxide emissions, fostering Thailand's transition towards a low-carbon society."

**Mr. Poonphiphat Tantanasin**, Chief executive Officer of QTC Energy Pcl., or QTC, a manufacturer and distributor of made-to-order transformers and a distributor of Longi solar panels and Huawei inverters, praised the project's success, highlighting the comparable properties of Bio-Based Transformer Oil, “This oil compares favorably with foreign competitors, with similar viscosity to Mineral Oil, allowing for immediate substitution without transformer redesign. Moreover, it exhibits high dielectric breakdown voltage, flash point, and fire point, ensuring significant safety in usage and environmental friendliness.

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**About BBGI**

BBGI Public Company Limited, emerged from a joint venture agreement for the bio-based products business between Bangchak Corporation Public Company Limited and Khon Kaen Sugar Industry Public Company Limited. The company engages in the production and distribution of bio-based products, with its primary focus on biofuel products such as ethanol, biodiesel, and glycerin, along with other high-value bio-based products related to health and well-being. These products utilize advanced technologies in the "High-Value Health-Promoting Bio-Based Products" sector.

**About SCGC**

SCG Chemicals or SCGC, is a leading integrated chemical products manufacturer in ASEAN, operating in Vietnam, Indonesia, and Thailand. It covers the entire chemical product spectrum from upstream (olefins) to downstream (polyethylene, polypropylene, and polyvinyl chloride).

SCGC aims to create " INNOVATION THAT’S REAL" to drive ASEAN's economy and enhance people's quality of life, following ESG principles and the circular economy. SCGC also focuses on developing high-value-added (HVA) products to meet diverse needs, covering infrastructure, consumer and packaging products, automotive, medical and health, and energy solutions, while also caring for the environment sustainably. For more information, please visit <https://www.scgchemicals.com>.

**About QTC**

QTC Energy Public Company Limited, a leading manufacturer, distributor, and service provider of comprehensive technology of global standard for power business, prioritizes Corporate Governance with social responsibility, and environmental care. It produces, distributes, and services transformers and represents Longi solar panels and Huawei inverters.