



China, 25 November, 2019

Chonburi Clean Energy (CCE) inaugurates its waste-to-energy power plant

Located at WHA Chonburi Industrial Estate 1 (WHA CIE 1), Chonburi Clean Energy (CCE) arranged an inauguration ceremony for waste-to-energy plant with a capacity of 8.63 MW to convert over 400 tons of non-hazardous industrial waste into electricity per day, or approximately 100,000 tons per year.

Chonburi Clean Energy (CCE) held an official inauguration ceremony of its eco-friendly, advanced waste-to-energy power plant at WHA Chonburi Industrial Estate 1 (WHA CIE 1 in the centre of Thailand's future area-based development zone, a leading ASEAN economic zone (EEC)).

The ceremony was inaugurated by Mr. Suraporn Danaitangtrakul, Vice-Minister of Energy, in the presence of several distinguished guests, including Mr. Jacques Lapouge, French Ambassador to Thailand and Mr. Pakathorn Tienchai, Governor of Chonburi.

CCE is an international consortium of three renowned and committed shareholders with their respective areas of expertise, providing newly alternatives for future energy utilizing industrial waste:

- **SUEZ**, with 90,000 employees on the five continents, is a world leader in smart and sustainable resource management. It provides water and waste management solutions that enable cities and industries optimize their resource management and strengthen their environmental and economic performances, in line with regulatory standards.
- **WHA Utilities and Power (WHAUP)**, a subsidiary of WHA Group, Thailand's leading integrated utilities products and service provider in Logistics, Industrial Estates, Utilities & Power, and Digital Platform. WHAUP also provides total solutions for integrated utility management, industrial water, wastewater treatment including electricity generation, natural gas distribution and renewable energy.
- **Glow Energy**, a subsidiary of Global Power Synergy Public Company Limited (GPSC) and a major energy player in Thailand. Glow Group's total installed generating capacity is 3,084 MW (Glow's stake is 2,268 MW) of electricity and 1,116 tons per hour of steam.

The three shareholding companies were represented by Ms. Jareeporn Jarukornsakul, Chairman of the Board of Directors, CCE and CEO of WHA Group and Mr. Wisate Chungwatana, CEO of WHAUP; Mr. Pajongwit Pongsivapai, CEO of Glow Group; and Mr. Antoine Grange, CEO of Recycling & Recovery of SUEZ Asia.

Antoine Grange, CEO of Recycling & Recovery of SUEZ Asia: "The Chonburi Clean Energy Waste-to-Power Plant is another environmental project for SUEZ apart from the plastic recycling plant in Thailand. We are very happy to continue to contribute to the environmental

protection industry in Thailand. By implementing strict worldwide standards, it will assist the Thai government in boosting the alternative energy ratio as set out in its Power Development Plan 2015 – 2036, which gives emphasis on WtE production."

CCE's total project investment is approximately THB 1.8 billion (USD 59.3 million). Equipped with the most advanced technologies in terms of reliability, sustainability, stability and environmental protection, CCE is the first industrial waste to energy facility in Southeast Asia to meet European emission standards. It can convert over 400 tons of industrial waste into electricity per day, or approximately 100,000 tons per year. There is also a system generation capacity of 8.63 MW, of which 6.90 MW will be sold to the Provincial Electricity Authority (PEA) under a 20-year Power Purchase Agreement (PPA).

CCE has signed a Waste Supply Agreement with Waste Management Siam Co., Ltd. (WMS), a leading player in Thailand's waste collection, treatment and disposal. Under this agreement, WMS will annually supply about 100,000 tons of industrial waste collected from WHA industrial estates in Chonburi and nearby areas. Using safe and environmentally sustainable waste incineration technology and high-standard air emission control systems, the facility can convert waste generated from industrial manufacturing activities into superheated steam that will in turn propel a turbine to generate electricity.

After two years of planning and construction, and testing required for connection to PEA since last July, CCE started its commercial operations on November 7, prior to the planned Commercial Operation Date under the PPA set on December 31, 2019.

"The CCE power plant, located at the heart of the EEC, will benefit Thailand's industrial scene, support the government's policy to reduce the country's dependence on fossil fuels and foster a circular economy based on sustainable industrial waste management," said Ms. Jareeporn Jarukornsakul, Chairman of the Board of Directors, CCE. "Together with our co-shareholders and partners, we will demonstrate that we can produce clean and non-toxic energy from industrial waste, thus preserving the environment for our children." she added.

WHA Chonburi Industrial Estate 1 (WHA CIE 1) covers an area of 3,482 rai (1,393 acres or 557 hectares). It is strategically situated 19 kilometers from the Laem Chabang deep seaport and 22 kilometers from Sri Racha city. Today, WHA CIE 1 counts over 115 customers representing 160 contracts for a total investment in excess of USD 2.8 billion. As one of EEC's industrial promotion zones, WHA CIE 1's specialty encompasses aspects of Next Generation Automotive, Aviation & Logistics and Digital.

About WHA Utilities and Power Plc.

WHA Utilities and Power Plc. (WHAUP), listed in the Stock Exchange of Thailand, is a company within WHA Group with core businesses in Utilities and Power. It is the largest industrial utilities provider in Thailand, providing raw water, processed water, demineralized water, clarified water and wastewater treatment to companies both inside and outside the group's industrial estates with total water sales and management Volume of 105 million m3. Its power portfolio consists of IPPs, SPPs and renewable power plants both in Thailand and neighboring country, with a total power generating capacity of 554 equity MW in operation.

WHA Group is a fully integrated business developer of Logistics, Industrial Development, Utilities and Power, and Digital Platform.

For more information, please visit www.wha-up.com , www.wha-group.com

Please scan our QR code to download

WHA Group Brochure



About Glow Energy

Glow Energy is a member of the Glow Group who is a major energy player in Thailand. Glow Group combined installed capacity is 3,084 MW (Glow's stake is 2,268 MW) of electricity and 1,116 tons per hour of steam.

Glow Group generates and supplies electricity to the Electricity Generating Authority of Thailand (EGAT) under Thailand's SPP (Small Power Producer) and IPP (Independent Power Producer) programs, as well as electricity, steam, industrial water and services to large industrial customers principally located in the Map Ta Phut area and nearby.

Global Power Synergy Public Company Limited (GPSC), the power flagship of PTT group, has been a major shareholder of Glow Energy since 14 March 2019.

For more information about the Glow Group please visit www.glow.co.th. For more information about GPSC please visit the company's website at www.gpscgroup.com.

SUEZ

With 90 000 employees on the five continents, SUEZ is a world leader in smart and sustainable resource management. We provide water and waste management solutions that enable cities and industries optimize their resource management and strengthen their environmental and economic performances, in line with regulatory standards. With the full potential of digital technologies and innovative solutions, the Group treats over 45 million tons of waste a year, produces 4.4 million tons of secondary raw materials and 7.7 TWh of local renewable energy. It also secures water resources, delivering wastewater treatment services to 66 million people and reusing 1.1 billion m3 of wastewater. SUEZ generated total revenues of 17.3 billion euros in 2018.

SUEZ in Asia

SUEZ has been present for over 60 years in South East Asia and 40 years in Greater China in water and waste management. With over 9,000 employees and over 70 water and waste projects with local partners, SUEZ is helping authorities and industries develop innovative solutions to address climate change and sustainable resource management. The Group built over 460 water and wastewater treatment plants in Asia, with more than 32 million people benefiting from our water and waste services. It operates China's first PPP water contract in Macau and Mainland China's first water concession in Chongqing. It is also the leader of waste management in Hong Kong and delivers its expertise in the management of environmental services to 15 industrial parks in Mainland China.

Press contact:

SUEZ Asia

Ivy Wong

+852 3126 1930

ivy.wong@suez.com

Find out more about SUEZ Asia
on our [website](#) & social media

