



October 5th, 2021

Establishment of the Joint Venture with the PTT Group Company

-Promotion of Decarbonization through On-site Energy Service Business including

Improving Efficiency Technology Solutions and Fuel Supply in Thailand -

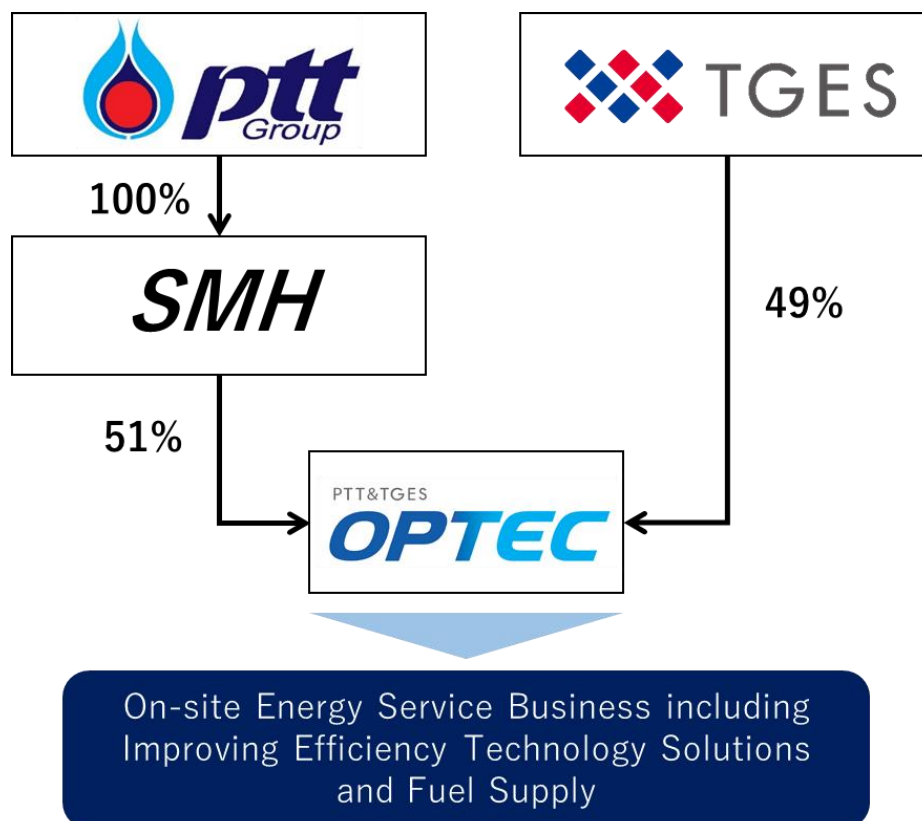
Tokyo Gas Engineering Solutions Corporation (TGES) has agreed with the joint venture agreement with Siam Management Holdings Company Limited (SMH) which is the wholly owned subsidiary of PTT Public Company Limited (PTT) and will jointly establish PTT&TGES Optec Company Limited (Optec) to enter into on-site energy service business including improving efficiency technology solutions and fuel supply such as LNG supply in relation to factories, small power producers and utilities in Thailand

Optec will aim to stable operation as well as business expansion in collaboration with a PTT's wide customer base and brand power in Thailand along with TGES's technical and marketing knowledge of fuel conversion and energy management based on worldwide abundant experiences. In addition to fuel supply, such as LNG by lorries for industrial customers, Optec will specifically implement more advanced energy service with a combination of installation of combined heat and power system, solar as well as biomass power and thermal generation system and visualization/automatic optimum control system of several equipment in Thailand where fuel conversion from LPG and heavy oil to LNG will be rapidly proceeded.

Following our projects such as construction of LNG receiving terminal and One

Bangkok project as the first urban district cooling in Thailand, TGES will contribute to continuous development of Thailand through our business, and also constantly promote growth of economies in Southeast Asia as well as CO2 reduction on a global scale

Shareholding structure and Business of Optec



Outline of Optec

Company Name	PTT&TGES Optec Company Limited
Head Office	No. 555/1, G Floor, Energy Complex Building A, Vibhavadi Rangsit Road, Chatuchak, Bangkok 10900, Thailand
Representative	To be appointed
Business	One-Stop total improving efficiency technology solutions and services business including on-site energy service with combined heat and power system etc., and fuel conversion such as LNG lorry supply
Capital	60 million baht (SMH 51%、TGES49%)
Establishment	November 2021

Outline of PTT

Company Name	PTT Public Company Limited
Head Office	555 Vibhavadi Rangsit Road, Chatuchak, Bangkok, 10900, Thailand
Representative	Mr. Auttapol Rerkpiboon
Business	The Company's operated businesses consist of the natural gas, gas transmission, international trading, technology and engineering businesses; the rest are invested through subsidiaries joint

	arrangements and associates, and PTT Group, namely exploration and production, liquefied natural gas (LNG), petrochemical and refining, oil and retail, power and utility, and service businesses
Capital	28,563 million baht
Establishment	December 29, 1978

Outline of SMH

Company Name	Siam Management Holdings Company Limited
Head Office	555 Vibhavadi Rangsit Road, Chatuchak, Bangkok, 10900, Thailand
Representative	Ms. Yinganong Arthasart
Business	Holding company
Capital	5,663.34 million baht (PTT100%)
Establishment	June 5, 2019

Outline of TGES

Company Name	Tokyo Gas Engineering Solutions Corporation
Head Office	1-2-3 Kaigan, Minato-ku, Tokyo, Japan
Representative	Yasuhiro KONISHI, Representative Director, President & Chief Executive Officer
Business	<ul style="list-style-type: none"> ·On-site energy services ·Regional energy services (district heating and cooling systems) ·Construction and maintenance services of cogeneration systems ·Planning, design, construction, operation, and maintenance of energy-related facilities Sales for related facilities including LNG Receiving Terminals, high and medium pressure pipelines, gas supply facilities, power generating facilities, energy utilizing facilities, etc ·Collection and regeneration of various contaminated soil and water ·Geographic Information System and related administrative work including software development and sales, construction /updating data, equipment sales, etc ·Various surveys/research and consulting
Capital	10 billion yen (100% funded by Tokyo Gas Co Ltd)
Establishment	April 1, 2015

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