

PTT and Affiliates

(As of December 31, 2019)

E&P Business Group

Percentage

PTT Exploration and Production Public Co., Ltd.	PTTEP	65.29
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Gas Business Group

Percentage

Trans Thai-Malaysia (Thailand) Co., Ltd.	TTM(T)	50.00
Trans Thai-Malaysia (Malaysia) Sdn.Bhd.	TTM(M)	50.00
PTT Natural Gas Distribution Co., Ltd.	PTTNGD	58.00
PTT LNG Co., Ltd.	PTTLNG	100.00
PTT Global LNG Co., Ltd.	PTTGL	50.00
Map Ta Phut Air Products Co., Ltd.	MAP	49.00

Oil Business Group

Percentage

PTT Oil and Retail Business Public Co., Ltd.	OR	100.00
Petro Asia (Maoming) Co., Ltd.	PA (Maoming)	20.00
Petro Asia (Sanshui) Co., Ltd.	PA (Sanshui)	25.00

International Investment Business Group

Percentage

PTT Energy Resources Co., Ltd.	PTTER	100.00
PTT Green Energy Pte. Ltd.	PTTGE	100.00
PTT Global Management Co., Ltd.	PTTGM	100.00

International Trading Business Group

Percentage

PTT International Trading Pte. Ltd.	PTTT	100.00
PTT International Trading London Limited	PTTT LDN	100.00

Petrochemical and Refining Business Group

Percentage

PTT Global Chemical Public Co., Ltd.	GC	47.92
Thai Oil Public Co., Ltd.	TOP	47.53
IRPC Public Co., Ltd.	IRPC	47.55
PTT Tank Terminal Co., Ltd.	PTT TANK	100.00

Technology and Engineering Business Group

Percentage

PTT Energy Solutions Co., Ltd.	PTTES	40.00
District Cooling System and Power Plant Co., Ltd.	DCAP	35.00
Thai Oil Power Co., Ltd.	TP	26.00
Global Power Synergy Public Co., Ltd.	GPSC	22.81
Energy Complex Co., Ltd.	EnCo	50.00
PTT Digital Solutions Co., Ltd.	PTT DIGITAL	20.00
Baania (Thailand) Co., Ltd.	Baania	2.89
HG Robotics Co., Ltd.	HG Robotics	9.49
InnoSpace (Thailand) Co., Ltd.	InnoSpace	19.42

Other Business Group

Percentage

Business Services Alliance Co., Ltd.	BSA*	25.00
Dhipaya Insurance Public Co., Ltd.	TIP	13.33
PTT Regional Treasury Center Pte. Ltd.	PTTRTC	100.00
Sarn Palung Social Enterprise Co., Ltd.	SPSE	20.00
PTT Treasury Center Co., Ltd.	PTT TCC	100.00

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075

Annual Report 2019 PTT Public Company Limited

Notes:

Shareholding proportion of affiliates is PTT's direct shareholding proportion.

* PTT holds 100% of BSA's ordinary shares. Thus, PTT's ownership interest in BSA is 100%.