



PTT and Its Affiliates

As of December 31, 2017

▶ E&P Business Group Percentage

PTT Exploration and Production Public Co., Ltd.	PTTEP	65.29
---	-------	-------

▶ 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

▶ Oil Business Group Percentage

PTT (Cambodia) Limited	PTTCL	100.00
PTT Oil and Retail Business Co., Ltd.	PTTOR	100.00
Thai Lube Blending Co., Ltd.	TLBC	48.95
Petro Asia (Thailand) Co., Ltd.	PAT	35.00
Petro Asia (Maoming) Co., Ltd.	PA (Maoming)	20.00
Petro Asia (Sanshui) Co., Ltd.	PA (Sanshui)	25.00
Thai Petroleum Pipeline Co., Ltd.	THAPPLINE	40.40
Intoplane Services Co., Ltd.	IPS	16.67
Bangkok Aviation Fuel Services Co., Ltd.	BAFS	7.06
Fuel Pipeline Transportation Co., Ltd.	FPT	0.0000090
PTT Oil Myanmar Co., Ltd.	PTTOM	100.00

▶ 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 ^{1/}	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.	PTTGC	48.89
Thai Oil Public Co., Ltd.	TOP	49.10
IRPC Public Co., Ltd.	IRPC	38.51
PTT Tank Terminal Co., Ltd.	PTT TANK	100.00

▶ Infrastructure 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	22.58
Energy Complex Co., Ltd.	EnCo	50.00

▶ Other Business Group Percentage

Business Services Alliance Co., Ltd.	BSA ^{2/}	25.00
PTT Digital Solutions Co., Ltd.	PTT DIGITAL ^{3/}	20.00
Dhipaya Insurance Public Co., Ltd.	TIP	13.33
PTT Regional Treasury Center Pte. Ltd.	PTTRTC	100.00
Sarn Palung Social Enterprise Co., Ltd.	PTTSE	20.00

Note:

1/ Former: PTT PMMA Co., Ltd.

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

3/ Former: PTT ICT Solutions Co., Ltd.