



PTT and Its Affiliates

As of December 31, 2016

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	

Oil Business Group		Percentage	
PTT (Cambodia) Limited	PTTCL	100.00	
PTT Oil and Retail Business Co., Ltd.	PTTOR ^{1/}	100.00	
Thai Lube Blending Co., Ltd.	TLBC	48.95	
KELOIL - PTT LPG Sdn.Bhd.	KPL	40.00	
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 Public Co., Ltd.	BAFS	7.06	
Fuel Pipeline Transportation Co., Ltd.	FPT	0.0000090	
PTT Tank Terminal Co., Ltd.	PTT TANK	100.00	
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	

International Trading Business Group		Percentage	
PTT International Trading Pte. Ltd.	PTTT	100.00	
PTT International Trading London Ltd.	PTTT LDN	100.00	

Petrochemical and Refining Business Group		Percentage	
PTT Global Chemical Public Co., Ltd.	PTTGC ^{2/}	48.89	
PTT Polymer Marketing Co., Ltd.	PTTPM	50.00	
PTT Asahi Chemicals Co., Ltd.	PTTAC	50.00	
HMC Polymers Co., Ltd.	HMC	41.44	
PTT Polymer Logistics Co., Ltd.	PTTPL	50.00	
PTT MCC Biochem Co., Ltd.	PTTMCC	50.00	
PTT PMMA Co., Ltd.	PTTPMMA	100.00	
Thai Oil Public Co., Ltd.	TOP	49.10	
IRPC Public Co., Ltd.	IRPC	38.51	
Star Petroleum Refining Public Co., Ltd.	SPRC	5.41	

Infrastructure Business Group		Percentage	
PTT Maintenance and Engineering Co., Ltd.	PTTME	40.00	
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 ^{3/}	25.00	
PTT ICT Solutions Co., Ltd.	PTTICT	20.00	
Dhipaya Insurance Public Co., Ltd.	TIP	13.33	
PTT Regional Treasury Center Pte. Ltd.	PTTRTC	100.00	

Note:

1/ Former: PTT Retail Business Company Limited

2/ According to PTTGC's share repurchase program during 2015 and 2016, PTT's ownership interest in PTTGC as of December 31, 2016 is 49.42%.

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