Annual Report 2016 (Financial Report) PTT Public Company Limited





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Annual Report 2016 (Financial Report) PTT Public Company Limited



Report of Board of Directors' Responsibilities **for the Financial Reporting**

To Shareholders,

The Board of Directors is responsible for the consolidated financial statements of PTT Public Company Limited and its subsidiaries and the separate financial statements of PTT Public Company Limited. The aforementioned financial statements are prepared in accordance with Thai Financial Reporting Standards. The financial statements are prepared under appropriated accounting policies and applied consistently by using careful judgment and the best estimation. Important information is adequately and transparently disclosed in the notes to financial statements for the company's shareholders and investors.

The Board of Directors provides good corporate governance and maintains the risk management system and internal controls to ensure that accounting records are accurate, reliable, free from material misstatement, timely and adequate to protect the company's assets as well as to prevent fraud and significant irregular operations.

The Board of Directors has appointed an Audit Committee comprising independent directors to be responsible for reviewing the reliability and correctness of financial reports as well as evaluating the effectiveness of internal control system and internal audit. The audit committee's comments on these issues are presented in the audit committee report included in this annual report.

The Board of Directors considers that the internal control system and the internal audit of the company provide credibility and reliability to the consolidated financial statements of PTT Public Company Limited and its subsidiaries and the separate financial statements of PTT Public Company Limited for the year ended December 31, 2016. The Board of Directors also believes that the financial position, financial results and cash flows, audited by the independent auditors (The Office of Auditor General of Thailand), are fairly presented in all material respects with Thai Financial Reporting Standards. The auditors' opinion is presented in the auditors' report as part of this annual report.

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Mr. Piyasvasti Amranand Chairman of the Board

Mr. Tevin Vongvanich President & Chief Executive Officer





To: The Shareholders of PTT Public Company Limited

Opinion

The Office of the Auditor General of Thailand has audited the accompanying consolidated financial statements of PTT Public Company Limited and its subsidiaries (the Group) and separate financial statements of PTT Public Company Limited (the Company), which comprise the consolidated and separate statements of financial position, as at December 31, 2016, the consolidated and separate statements of income, the consolidated and separate statements of comprehensive income, the consolidated and separate statements of cash flows for the year then ended, note to the consolidated and separate financial statements, and a summary of significant accounting policies.

In the Office of the Auditor General of Thailand's opinion, the consolidated and separate financial statements referred to above present fairly, in all material respects, the consolidated financial position of PTT Public Company Limited and its subsidiaries and separate financial position of PTT Public Company Limited, respectively, as at December 31, 2016, and its consolidated and separate financial performance and its cash flows for the year then ended in accordance with Thai Financial Reporting Standards (TFRSs).

Basis for Opinion

The Office of the Auditor General of Thailand conducted the audit in accordance with Thai Standards on Auditing (TSAs). The Office of the Auditor General of Thailand's responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the consolidated and separate financial statements section of the Office of the Auditor General of Thailand's report. The Office of the Auditor General of Thailand is independent of the Group and the Company in accordance with The State Audit Standards issued by the State Audit Commission and the Federation of Accounting Professions under the Royal Patronage of His Majesty the King's Code of Ethics for Professional Accountants that are relevant to the Office of the Auditor General of Thailand's audit of the consolidated and separate financial statements, and has fulfilled other ethical responsibilities in accordance with these requirements. The Office of the Auditor General of Thailand believes that the audit evidence obtained is sufficient and appropriate to provide a basis for the Office of the Auditor General of Thailand's opinion.

Emphasis of Matter

The Office of the Auditor General of Thailand draws attention to Note 46.1 to the financial statements, which describes the event that Ombudsman of Thailand submitted a complaint to the Administrative Court (the Court) against the Company as the black case No. 510/2559, requesting the Court as follows: (1) To revoke the Cabinet Resolutions on December 18, 2007 and August 10, 2010. (2) To order the Minister of Finance, the Minister of Energy and the Company to conduct a separation and transfer of net assets according to the plaintiff's allegation as of September 30, 2001 amounting to Baht 68,569.69 million, including other compensations and benefits. (3) To revoke the separation of public assets and the preferential rights to establish the gas pipeline system according to the plaintiff's allegation.

Currently, the public prosecutor is preparing the statement and additional statement for submission to the Court. The case is under the consideration of the Court.

In conclusion, the Office of the Auditor General of Thailand's opinion is not qualified in respect of these matters.

Key Audit Matters

Key audit matters are those matters that, in the Office of the Auditor General of Thailand's professional judgment, were of most significance in the audit of the consolidated and separate financial statements of the current period. These matters were addressed in the context of the Office of the Auditor General of Thailand's audit of the consolidated and separate financial statements as a whole, and in forming the Office of the Auditor General of Thailand's opinion thereon, and the Office of the Auditor General of Thailand does not provide a separate opinion on these matters.

The Office of the Auditor General of Thailand identifies the followings as key audit matters:

1. Estimation of petroleum reserves

Estimation of petroleum proved reserves significantly affects the consolidated financial statements for test of impairment, including calculation of depreciation, depletion, and amortization expenses of petroleum exploration and evaluation assets. The estimated proved reserve may differ from the actual reserve used in the future because the estimation is based on the available information as of the date of the assessment. The estimated proved reserve at the beginning of the project is subjected to a higher deviation, but will reduce when the project approaches the end of its production life. This may impact the management's investment decision. In determining the estimated proved reserve, the Group's internal expert assigned by the management, uses the method consistent with the method applied by other companies in the petroleum exploration and evaluation industry. The expert has to use judgments as well as experiences to determine the appropriate method based on available information, therefore the amount of proved reserve may be different based on the expert's individual judgment and experience at the time of the assessment. In addition, changes in the estimated proved reserve will impact the recognition of depreciation, depletion and amortization expenses in the financial statements. As a result, the Office of the Auditor General of Thailand considers this as a key audit matter.

The Group disclosed estimation of petroleum proved reserves information in Note 3.2.13 Accounting Policies - Property, Plant and Equipment, Note 3.2.29 Use of Estimates and Significant Assumptions - Estimates of Petroleum Reserves, and Note 17 Property, Plant and Equipment.

The Office of the Auditor General of Thailand performed the followings;

1. Understand the proved reserve estimation processes and evaluate the sufficiency of the design of key internal controls, especially for the control over the reliability of the data used in the assessment of the estimated proved reserve and the used of the proved reserve data to calculate the depreciation, depletion and amortization expenses and the assessment of an impairment of assets.

2. Evaluate the qualification of the experts who are responsible for preparing and assessing the Group's estimated proved reserve.

3. Compare the consistency of estimated proved reserve information against the information assessed by the regulator of energy in Thailand who assigns its own experts and implements its own processes to audit the proved reserve report submitted by concessionaires (operators) conducted in Thailand. The Office of the Auditor General of Thailand compared the information of the Group's estimated proved reserve for the year 2015 to the estimated proved reserve quantity audited by the Energy Commission Regulation of Thailand and reconciled to the amount of estimated proved reserve during the year in order to determine the amount of the Group's estimated proved reserve for domestic projects in which the Group is an operator at the end of 2016.

4. Test the appropriateness of the significant changes in the estimated proved reserve quantity during the period and the application of such changes to calculate the depreciation, depletion and amortization expenses, and ensure that it is complied with the Group's accounting policy.

2. Goodwill

The Group performs an impairment tests of goodwill on an annual basis in accordance with the Thai Financial Reporting Standard. The Group measures the recoverable amount of each cash-generating unit and compares the result with the net book value to determine whether goodwill impairment has occurred. To measure the recoverable amount, the Group uses estimates and significant assumptions regarding items such as petroleum exploration volume, oil prices, business plans, and discount rate. These estimates and assumptions were determined by the Group's management using significant judgment as described in Note 3.2.18 Significant Accounting Policies - Goodwill, Note 3.2.29 Use of Estimates and Significant

Assumptions - Impairment of Assets, Note 20 Goodwill, and Note 21 Impairment of Assets. Because the measurement method of recoverable amount is complex, the management applies significant judgment in considering the assumptions relevant to the estimation of the recoverable amount. As a result, the Office of the Auditor General of Thailand considers this as a key audit matter.

The Office of the Auditor General of Thailand performed the followings:

1. Understand the processes, estimates, and assumptions used to measure the recoverable amount, and evaluate the sufficiency of the design of key internal controls by reviewing important procedures such as segregation of duties for measurement of recoverable amount, approval of assumptions relating to energy prices used for the preparation of the business plan, approval of the business plan by the Board of Directors, and approval of the results of the goodwill impairment tests by the management.

2. Assess the reasonableness of the estimates and significant assumptions used in the estimation of discounted free cash flows by

- 2.1 Assess the correlation of energy prices and global price trends with the business growth and domestic economic growth rates.
- 2.2 Assess the reasonableness of projected operating income and expenses by compare with historical operating income and expenses.

3. Assess the reasonableness of the discount rate and the components of the calculation of the weighted average cost of capital, and compare with the weighted average cost of capital of other companies in the same industry.

4. Test the calculation of the recoverable amount.

3. Provision for decommissioning costs

Provision for decommissioning costs is the significant item which included in provision for decommissioning costs in the consolidated financial statements. The decommissioning activity of the producing assets will occur at the end of the project. The methods used for the decommissioning depend on where the petroleum productions are located, for example, onshore facility and offshore where the main facilities are Central Processing Platforms, Well Head Platform, Development Well, Pipeline, and other production equipment. The regulations governed for the entire or partial decommissioning of each country and the history of decommissioning costs are limited. The Group has to apply significant judgment and assumptions when calculating the decommissioning costs, inflation rate, discount rate and the timing of the decommission based on the expected useful life of the project which also depended on the petroleum price, and operating costs of the project, and these assumptions can be changed. The management used the Group's internal experts, comprise of Engineering and Development Group, Production Asset and Operations Support Group, Capital and Investor Relations Department, Petroleum Economics Departments and Accounting Division when estimate the provision for decommissioning costs.

The Group disclosed information about provision for decommissioning costs in Note 3.2.22 Significant Accounting Policies - Provision for Decommissioning Costs, Note 3.2.29 Use of Estimates and Significant Assumptions - Provisions, and Note 29 Provision for Decommissioning Costs.

The Office of the Auditor General of Thailand performed the followings;

1. Understand the Group's internal processes when estimating the decommissioning costs and evaluate the sufficiency of the design of internal control, on the preparation, review and change in the provision for decommissioning costs and related approval processes.

2. Evaluate the qualification of the experts who are responsible for preparing and assessing the Group's provision for decommissioning costs.

- 3. Evaluate the reasonableness of the assumptions used in the calculation of provision for decommissioning costs by
 - 3.1 Applying the Office of the Auditor General of Thailand's knowledge of the business coupled with the used of the information of decommissioning costs of other comparable projects when inquires the experts on the assumption used to evaluate the reasonableness of the decommissioning costs.
 - 3.2 Evaluating the consistency between the expected time of the decommissioning against the investment plan or other information relevant to the decommissioning time period.
 - 3.3 Inquiring of the expert on the reasonableness of the inflation rate and discount rate and compared the information to the external sources.

4. For both projects that the Group is an operator and the projects that the Group is a non-operator, test the accuracy of the decommissioning cost calculation and compare to the information obtained from the Group's engineer.

5. Test the significant changes in the estimate of the decommissioning costs during the year and the impact of such changes to the statements of income with the supporting documents.

6. Test the calculation of the decommissioning costs.

7. For project that the Group has sent the preliminary decommissioning plan and estimated costs to the regulator of energy in Thailand and the plan has been tested and certified for the accuracy of the decommissioning costs by the outside expert, the Office of the Auditor General of Thailand has assessed the reliability and competency of the outside expert by considering the qualification, work experience and the independence of the outside expert under criteria established by the regulator of energy for the appointment of the expert to test and certified the accuracy of the decommissioning costs.

Other Information

Management is responsible for the other information. The other information comprises the information included in the annual report, but does not include the consolidated and separate financial statements and auditor's report thereon. The annual report is expected to be made available to the Office of the Auditor General of Thailand after the date of this auditor's report.

The Office of the Auditor General of Thailand's opinion on the consolidated and separate financial statements does not cover the other information and the Office of the Auditor General of Thailand will not express any form of assurance conclusion thereon.

In connection with the audit of the consolidated and separate financial statements, the Office of the Auditor General of Thailand's responsibility is to read the other information identified above when it becomes available and, in doing so, consider whether the other information is materially inconsistent with the consolidated and separate financial statements or the Office of the Auditor General of Thailand's knowledge obtained in the audit, or otherwise appears to be materially misstated.

When the Office of the Auditor General of Thailand reads the annual report, if the Office of the Auditor General of Thailand concludes that there is a material misstatement therein, the Office of the Auditor General of Thailand is required to communicate the matter to those charged with governance.

Responsibilities of Management and Those Charged with Governance for the Consolidated and Separate Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated and separate financial statements in accordance with TFRSs, and for such internal control as management determines is necessary to enable the preparation of consolidated and separate financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated and separate financial statements, the management is responsible for assessing the Group's and the Company's ability to continue as a going concern, disclosing, and using the going concern basis of accounting unless management either intends to liquidate the Group and the Company or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Group's and the Company's financial reporting process.

Auditor's Responsibilities for the Audit of the Consolidated and Separate Financial Statements

The Office of the Auditor General of Thailand's objectives are to obtain reasonable assurance about whether the consolidated and separate financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes the Office of the Auditor General of Thailand's opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with TSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated and separate financial statements.

As part of an audit in accordance with TSAs, the Office of the Auditor General of Thailand exercises professional judgment and maintain professional skepticism throughout the audit, including:

- Identifies and assesses the risks of material misstatement of the consolidated and separate financial statements, whether due to fraud or error, designs and performs audit procedures responsive to those risks, and obtains audit evidence that is sufficient and appropriate to provide a basis for the Office of the Auditor General of Thailand's opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtains an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Group's and the Company's internal control.
- Evaluates the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the management.
- Concludes on the appropriateness of the management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's and the Company's ability to continue as a going concern. If the Office of the Auditor General of Thailand concludes that a material uncertainty exists, the Office of the Auditor General of Thailand concludes that a material uncertainty exists, the Office of the Auditor General of Thailand concludes that a material uncertainty exists, the Office of the Auditor General of Thailand is required to draw attention in the Office of the Auditor General of Thailand auditor's report to the related disclosures in the consolidated and separate financial statements or, if such disclosures are inadequate, to modify the Office of the Auditor General of Thailand's conclusions are based on the audit evidence obtained up to the date of the Office of the Auditor General of Thailand auditor's report. However, future events or conditions may cause the Group and the Company to cease to continue as a going concern.
- Evaluates the overall presentation, structure and content of the consolidated and separate financial statements, including the disclosures, and whether the consolidated and separate financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtains sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. The Office of the Auditor General of Thailand is responsible for the direction, supervision and performance of the group audit. The Office of the Auditor General of Thailand remains solely responsible for the Office of the Auditor General of Thailand's audit opinion.

The Office of the Auditor General of Thailand communicates with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that the Office of the Auditor General of Thailand identifies during the Office of the Auditor General of Thailand's audit.

The Office of the Auditor General of Thailand also provides those charged with governance with a statement that the Office of the Auditor General of Thailand has complied with the State Audit Standards and relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on the Office of the Auditor General of Thailand's independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, the Office of the Auditor General of Thailand determines those matters that were of most significance in the audit of the consolidated and separate financial statements of the current period and are therefore the key audit matters. The Office of the Auditor General of Thailand describes these matters in the Office of the Auditor General of Thailand auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, the Office of the Auditor General of Thailand determines that a matter should not be communicated in the Office of the Auditor General of Thailand's report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

Office of the Auditor General February 16, 2017 Mrs. Vanussanun Thongmeesee Inspector General 1 Miss Sunan Wongmek Director of Financial Audit Office No. 7



Statement of Financial Position

PTT Public Company Limited and Its Subsidiaries As at December 31, 2016

Unit: Baht

		Consolidated fina	ancial statements	Separate finan	cial statements
	Notes	December 31, 2016	December 31, 2015	December 31, 2016	December 31, 2015
Assets					
Current assets					
Cash and cash equivalents	4	215,566,411,132	239,977,946,794	62,648,286,060	67,524,575,559
Current investments	5	176,813,625,899	106,747,408,094	59,192,546,702	34,908,223,763
Trade accounts receivable	6	143,191,055,315	141,978,782,800	124,562,469,670	125,235,790,273
Other accounts receivable	7	43,223,950,727	53,505,267,774	11,229,820,841	16,134,514,184
Short-term loans	8.1	530,365,629	974,975,603	8,160,734,985	6,398,234,555
Inventories	10	116,883,543,400	84,085,258,831	22,987,980,292	17,167,157,043
Materials and supplies	11	31,026,266,857	31,643,833,649	5,661,775,885	4,830,075,982
Derivative assets		2,278,953,598	9,516,121,123	618,972,244	-
Other current assets		11,976,447,829	11,272,606,755	3,581,409,533	3,482,069,475
Total current assets		741,490,620,386	679,702,201,423	298,643,996,212	275,680,640,834
Non-current assets					
Available-for-sale investments	14.2	23,839,541,021	13,352,991,912	18,116,254,567	13,108,787,234
Investments in subsidiaries	13.6	-	-	210,360,505,443	210,211,247,132
Investments in joint ventures	13.4, 13.6	36,843,812,673	39,090,094,426	22,884,267,327	24,209,267,327
Investments in associates	13.5, 13.6	19,429,576,628	22,929,975,363	3,173,227,030	3,173,227,030
Other long-term investments	15.2	2,205,879,075	1,969,131,856	7,390,216	7,390,216
Long-term other accounts					
receivable-related parties	9.3	404,434,639	186,641,940	3,023,756,267	3,881,135,969
Long-term loans	8.2	15,017,824,346	10,545,706,453	27,582,205,637	33,113,581,022
Investment properties	16	6,227,549,199	6,287,622,534	3,839,563,972	3,842,531,263
Property, plant and equipment	17	1,098,229,959,680	1,118,677,236,091	285,001,575,032	276,502,321,212
Intangible assets	18	160,744,095,822	163,154,279,938	14,348,065,711	14,644,123,988
Mining properties	19	18,678,910,382	19,934,947,500	-	-
Goodwill	20	50,778,166,385	51,408,131,651	-	-
Deferred tax assets	22.2	10,581,203,858	10,436,140,084	-	-
Advance payments for gas purchases	23	1,529,678,020	2,644,245,753	1,777,456,049	3,069,553,790
Derivative assets		246,849,916	7,204,688,101	99,668,317	451,608,804
Other non-current assets	24	46,082,981,325	26,472,151,009	5,877,710,369	7,033,378,532
Total non-current assets		1,490,840,462,969	1,494,293,984,611	596,091,645,937	593,248,153,519
Total assets		2,232,331,083,355	2,173,996,186,034	894,735,642,149	868,928,794,353



Statement of Financial Position

PTT Public Company Limited and Its Subsidiaries As at December 31, 2016

Unit: Baht

Consolidated fir	nancial statements	s Separate	financial	statements
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1	Notes	December 31, 2016	December 31, 2015	December 31, 2016	December 31, 2015
Liabilities and Equity					
Current liabilities					
Bank overdrafts and short-term loans from					
financial institutions	25	30,526,999,660	26,475,149,627	-	-
Trade accounts payable		159,526,622,939	149,107,653,585	133,387,903,741	124,356,209,585
Other accounts payable		47,576,605,724	45,915,064,120	23,478,969,389	22,680,072,011
Current portion of long-term loans	27	64,055,692,422	54,618,350,781	24,139,813,716	37,148,508,674
Short-term loans-related parties	9.5	-	-	2,117,071,996	1,864,273,968
Income tax payable		21,105,884,506	21,373,829,654	4,823,679,215	1,148,443,603
Derivative liabilities		7,823,994,445	10,247,586,670	743,498,596	-
Other current liabilities	26	8,976,413,301	7,647,430,016	3,390,127,991	3,806,559,398
Total current liabilities		339,592,212,997	315,385,064,453	192,081,064,644	191,004,067,239
Non-current liabilities					
Long-term other accounts payable-related parties	9.6	505,041,348	537,562,668	3,503,837,921	4,664,122,800
Long-term loans	27	519,266,904,102	578,215,365,306	210,903,682,857	234,894,849,929
Deferred tax liabilities	22.2	44,020,389,148	50,781,763,598	212,389,427	94,832,990
Employee benefit obligations	28	21,072,327,428	18,787,507,369	8,140,102,985	6,760,584,947
Long-term provision for decommissioning costs	29	72,751,557,264	75,746,670,941	-	-
Deposits on LPG cylinders		9,898,534,048	9,311,079,998	9,898,534,048	9,311,079,998
Derivative liabilities		4,856,896,977	7,459,843,775	1,171,425,711	1,829,238,083
Other non-current liabilities	30	48,770,210,686	30,083,954,130	19,414,386,586	16,523,337,146
Total non-current liabilities		721,141,861,001	770,923,747,785	253,244,359,535	274,078,045,893
Total liabilities		1,060,734,073,998	1,086,308,812,238	445,325,424,179	465,082,113,132



Statement of Financial Position

PTT Public Company Limited and Its Subsidiaries As at December 31, 2016

Unit: Baht

Consolidated financial statements Separate financial statements										
	Notes	December 31, 2016	December 31, 2015	December 31, 2016	December 31, 2015					
Liabilities and Equity (Continued)										
Equity										
Share capital										
Authorized share capital										
2,857,245,725 ordinary shares of										
Baht 10 each	31.1	28,572,457,250	28,572,457,250	28,572,457,250	28,572,457,250					
Issued and paid-up share capital										
2,856,299,625 ordinary shares of										
Baht 10 each	31.2	28,562,996,250	28,562,996,250	28,562,996,250	28,562,996,250					
Premium on ordinary shares	31.2	29,211,131,966	29,211,131,966	29,211,131,966	29,211,131,966					
Retained earnings										
Appropriated										
Legal reserve	32.1	2,857,245,725	2,857,245,725	2,857,245,725	2,857,245,725					
Reserve for self-insurance fund	32.2	1,174,389,774	1,145,105,235	1,174,389,774	1,145,105,235					
Unappropriated		694,362,564,563	630,383,740,012	380,086,648,201	338,558,369,857					
Other components of equity		6,779,320,912	4,986,806,037	7,517,806,054	3,511,832,188					
Total equity attributable to owners of the parent		762,947,649,190	697,147,025,225	449,410,217,970	403,846,681,221					
Non-controlling interests		408,649,360,167	390,540,348,571	-	-					
Total equity		1,171,597,009,357	1,087,687,373,796	449,410,217,970	403,846,681,221					
Total liabilities and equity		2,232,331,083,355	2,173,996,186,034	894,735,642,149	868,928,794,353					

Mr. Tevin VongvanichMrs. Nitima ThepvanangkulPresident & Chief Executive OfficerExecutive Vice President

Acting Chief Financial Officer



Statement of Income

PTT Public Company Limited and Its Subsidiaries For the Year Ended December 31, 2016

Unit: Baht

Consolidated financial statements Separate financial statements

	Notes	December 31,	December 31,	December 31,	December 31,
	Notes	2016	2015	2016	2015
Sales and service income	34	1,718,846,039,961	2,025,551,710,229	1,439,393,492,138	1,712,251,091,561
Cost of sales and services	36	1,463,042,520,502	1,802,311,361,445	1,347,178,876,606	1,646,624,194,120
Gross profit		255,803,519,459	223,240,348,784	92,214,615,532	65,626,897,441
Other income	35	9,682,645,328	30,784,167,417	40,762,874,116	53,535,944,30
Gain (loss) on foreign exchange rates		4,472,680,400	(5,992,079,008)	3,003,134,917	1,144,618,26
Profit before expenses		269,958,845,187	248,032,437,193	135,980,624,565	120,307,460,00
Selling expenses	36	17,584,824,789	19,031,939,190	14,281,059,205	16,043,009,98
Administrative expenses	36	47,722,709,093	52,367,894,420	30,005,954,378	62,257,941,80
Executive remunerations	9.11	1,242,595,878	1,279,238,300	112,888,356	116,867,54
Petroleum exploration expenses		2,595,140,068	6,312,780,469	-	
Petroleum royalties and remuneration	37	13,570,434,139	15,210,772,103	-	
Loss on impairment of assets	21, 36	7,203,003,233	72,873,218,316	793,452,030	16,956,959,91
Operating profit		180,040,137,987	80,956,594,395	90,787,270,596	24,932,680,76
Share of profit from investments in joint ventures	13.7.1	2,980,567,211	1,749,942,869	-	
Share of profit from investments in associates	13.7.2	1,162,641,231	4,281,762,039	-	
Profit before finance costs & income taxes		184,183,346,429	86,988,299,303	90,787,270,596	24,932,680,76
Finance costs	38	28,887,254,079	30,079,395,891	10,906,455,692	11,374,727,18
Profit before income taxes		155,296,092,350	56,908,903,412	79,880,814,904	13,557,953,58
Income taxes	22.1	26,593,074,497	25,071,429,548	9,072,769,378	4,003,158,05
Profit for the years from continuing operations		128,703,017,853	31,837,473,864	70,808,045,526	9,554,795,53
Profit (loss) for the years from discontinued					
operations, net of tax	12	872,073,877	(1,118,168,914)	-	
Profit for the years		129,575,091,730	30,719,304,950	70,808,045,526	9,554,795,53
Profit attributable to					
Owners of the parent					
Profit for the years from continuing operations	S	94,039,732,600	20,666,429,339	70,808,045,526	9,554,795,53
Profit (loss) for the years from discontinued					
operations, net of tax		569,345,640	(730,012,230)	-	
		94,609,078,240	19,936,417,109	70,808,045,526	9,554,795,53
Non-controlling interests					
Profit for the years from continuing operations	S	34,663,285,253	11,171,044,525	_	
Profit (loss) for the years from discontinued	-	0 1,000,200,200			
operations, net of tax		302,728,237	(388,156,684)	_	
		34,966,013,490	10,782,887,841	-	
Basic earnings (loss) per share		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , , ,		
Continuing operations	33	32.48	6.98	24.79	3.3
	55	32.40	0.90	24.79	3.3
Discontinued operations	12, 33	0.20	(0.25)		



Statement of Comprehensive Income

PTT Public Company Limited and Its Subsidiaries For the Year Ended December 31, 2016

Unit: Baht

Consolidated financial statements Separate financial statements

	December 31, 2016	December 31, 2015	December 31, 2016	December 31, 2015
Profit for the years from continuing operations	128,703,017,853	31,837,473,864	70,808,045,526	9,554,795,531
Other comprehensive income (loss)	120,703,017,033	31,037,473,004	70,000,040,020	3,334,733,331
Items that may be reclassified to profit or loss				
in subsequent periods				
Currency translation differences	(4,209,674,876)	37,817,189,576	_	_
Unrealized gain (loss) on available-for-sale	(4,203,074,070)	37,017,103,570		
investments	5,055,509,044	(1,096,610,471)	5,007,467,333	(834,292,288)
Income taxes related to unrealized gain (loss) on	0,000,000,011	(1,000,010,171)	0,007,107,000	(001,202,200)
available-for-sale investments	(1,001,670,252)	167,195,160	(1,001,493,467)	166,858,458
Loss on cash flow hedges	406,705,383	818,593,289	-	
Income taxes related to cash flow hedges	1,807,287,647	(1,319,922,183)	-	-
Share of other comprehensive income of	1,007,207,017	(1,010,022,100)		
joint ventures and associates	104,918,204	2,654,552,630	-	-
Items that will not be reclassified to profit or loss				
in subsequent periods				
Actuarial loss	(1,136,390,447)	(130,116,560)	(863,033,354)	(315,891,409
Income taxes related to actuarial loss	230,897,889	(106,872,304)	172,606,671	63,163,138
Share of other comprehensive loss from				
joint ventures and associates	(73,491,182)	(51,338,086)	-	-
Other comprehensive income (loss), net of taxes	1,184,091,410	38,752,671,051	3,315,547,183	(920,162,101
Comprehensive income for the years from continuing				
operations	129,887,109,263	70,590,144,915	74,123,592,709	8,634,633,430
Comprehensive income (loss) for the years from				
discontinued operations, net of tax	725,586,572	(1,000,937,017)	-	-
Total comprehensive income for the years	130,612,695,835	69,589,207,898	74,123,592,709	8,634,633,430
Total comprehensive income attributable to				
Owners of the parent				
Continuing operations	95,891,533,440	46,325,146,751	74,123,592,709	8,634,633,430
Discontinued operations	473,709,352	(653,475,745)	-	-
	96,365,242,792	45,671,671,006	74,123,592,709	8,634,633,430
Non-controlling interests				
Continuing operations	33,995,575,823	24,264,998,164	-	-
Discontinued operations	251,877,220	(347,461,272)	-	-
	34,247,453,043	23,917,536,892	-	-



Statement of Changes in Equity

PTT Public Company Limited and Its Subsidiaries For the Year Ended December 31, 2016

Unit: Baht

Consolidated financial statements

		Total equity attributable to owners of the parent																
				548 F. 45		Other components of equity												
				R	etained earning	js	Of	ther comprehen	sive income (los	ss)	Surplus	Curplus	Surplus	Surplus				
	Notes	lssued and paid-up share capital	Premium on share capital	Legal reserve	Reserve for self- insurance fund	Unappro- priated	Available– for–sale investments	Currency translation differences	Cash flow hedges	Share of other comprehensive income (loss) of joint ventures and associates	(Deficit) from the change in the ownership interests in subsidiaries	Total other components of equity	Total equity attributable to owners of the parent	Non– controlling interests	Total equity			
Balance as at January 1, 2015		28.562.996.250	29,211,131,966	2,857,245,725	1,098,744,054	642,830,344,726	4,177,178,515	2.123.596.114	(874,435,150)	(2.808.789.968)	(23,891,493,083)	(21,273,943,572)	683,286,519,149	371,407,678,365	1.054.694.197.514			
Changes in equity for the year																		
Reserve for self-insurance fund	32.2		-	-	46,361,181	(46,361,181)		-	-	-								
Interests for subordinated capital debentures		-	-	-	-	(1,504,682,346)	-	-	-	-	-		(1,504,682,346)	(800,058,581)	(2,304,740,927)			
Income taxes related to subordinated capital debent.	ures	-	-	-	-	777,929,911	-	-	-	-	-	-	777,929,911	413,635,146	1,191,565,057			
Dividends paid	42	-	-	-	-	(31,401,457,183)	-	-	-	-	-	-	(31,401,457,183)	-	(31,401,457,183)			
Dividends paid of subsidiaries			-		-	-		-		-			-	(12,409,544,983)	(12,409,544,983)			
Business acquisition of subsidiary		-	-	-		-	-	-	-	-	-			2,977,121	2,977,121			
Business disposal of subsidiaries		-	-	-	-	-	-	-	-	-	-		-	142,881,196	142,881,196			
Change in the ownership interests subsidiaries		-	-	-	-	-	-	-	-	-	317,044,688	317,044,688	317,044,688	7,865,243,415	8,182,288,103			
Profit for the year		-	-	-	-	19,936,417,109	-	-	-	-	-	-	19,936,417,109	10,782,887,841	30,719,304,950			
Other comprehensive income (loss) for the year		-	-	-	-	(208,451,024)	(927,229,162)	24,789,633,788	(334,105,344)	2,415,405,639	-	25,943,704,921	25,735,253,897	13,134,649,051	38,869,902,948			
Balance as at December 31, 2015		28,562,996,250	29,211,131,966	2,857,245,725	1,145,105,235	630,383,740,012	3,249,949,353	26,913,229,902	(1,208,540,494)	(393,384,329)	(23,574,448,395)	4,986,806,037	697,147,025,225	390,540,348,571	1,087,687,373,796			
Balance as at January 1, 2016		28,562,996,250	29,211,131,966	2,857,245,725	1,145,105,235	630,383,740,012	3,249,949,353	26,913,229,902	(1,208,540,494)	(393,384,329)	(23,574,448,395)	4,986,806,037	697,147,025,225	390,540,348,571	1,087,687,373,796			
Changes in equity for the year																		
Reserve for self-insurance fund	32.2		-		29,284,539	(29,284,539)				-			-	-	-			
Interests for subordinated capital debentures						(1,522,821,631)				-			(1,522,821,631)	(809,703,414)	(2,332,525,045)			
Income taxes related to subordinated capital debentu	ures 42					271,121,768 (28,560,055,960)				-			271,121,768 (28,560.055,960)	144,158,854	415,280,622 (28.560.055.960)			
Dividends paid of subsidiaries	42		-			(28,000,000,960)				-			(28,000,000,960)	- (16.029.854.696)	(28,560,055,960) (16.029.854.696)			
Dividends paid of subsidiaries Business acquisition of subsidiary										-				(16,029,854,696) (162,700)	(16,029,854,696) (162,700)			
Change in the ownership interests in subsidiary						-					- (752,863,004)	(752.863.004)	(752.863.004)	(162,700) 455,344,095	(162,700) (297,518,909)			
Increase in share capital of subsidiary											(752,003,004)	(752,005,004)	(732,003,004)	101,776,414	101.776.414			
Profit for the year						94.609.078.240							94.609.078.240	34,966,013,490	129,575,091,730			
Other comprehensive income (loss) for the year						(789.213.327)	4.060.830.819	(3,203,505,086)	1.450.846.175	237.205.971		2.545.377.879	1.756.164.552	(718.560.447)	1.037.604.105			
Balance as at December 31, 2016		28,562,996,250	29,211,131,966	2,857,245,725	1,174,389,774		7,310,780,172	23,709,724,816	242,305,681	(156,178,358)	(24,327,311,399)	6,779,320,912	762,947,649,190		1,171,597,009,357			

The accompanying notes are an integral part of these financial statements.

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Statement of **Changes in Equity**

PTT Public Company Limited and Its Subsidiaries For the Year Ended December 31, 2016

Unit: Baht

					Retained earnings	Other components of equity		
		Issued			Reserve for		Other comprehensive income (loss)	
	Notes	and paid–up share capital	Premium on share capital	Legal reserve	self-insurance fund	Unappropriated	Available-for-sale investments	Total equity
Balance as at January 1, 2015		28,562,996,250	29,211,131,966	2,857,245,725	1,098,744,054	360,704,120,961	4,179,266,018	426,613,504,974
Changes in equity for the year								
Reserve for self-insurance fund	32.2	-	-	-	46,361,181	(46,361,181)	-	-
Dividend paid	42	-	-	-	-	(31,401,457,183)	-	(31,401,457,183)
Profit for the year		-	-	-	-	9,554,795,531	-	9,554,795,531
Other comprehensive loss for the year		-	-	-	-	(252,728,271)	(667,433,830)	(920,162,101)
Balance as at December 31, 2015		28,562,996,250	29,211,131,966	2,857,245,725	1,145,105,235	338,558,369,857	3,511,832,188	403,846,681,221
Balance as at January 1, 2016		28,562,996,250	29,211,131,966	2,857,245,725	1,145,105,235	338,558,369,857	3,511,832,188	403,846,681,221
Changes in equity for the year								
Reserve for self-insurance fund	32.2	-	-	-	29,284,539	(29,284,539)	-	-
Dividend paid	42	-	-	-	-	(28,560,055,960)	-	(28,560,055,960)
Profit for the year		-	-	-	-	70,808,045,526	-	70,808,045,526
Other comprehensive income (loss) for the year		-	-	-	-	(690,426,683)	4,005,973,866	3,315,547,183
Balance as at December 31, 2016		28,562,996,250	29,211,131,966	2,857,245,725	1,174,389,774	380,086,648,201	7,517,806,054	449,410,217,970

Separate financial statements



PTT Public Company Limited and Its Subsidiaries For the Year Ended December 31, 2016

Unit: Baht

Consolidated financial statements Separate financial statements

	December 31, 2016	December 31, 2015	December 31, 2016	December 31, 2015
Cash flows from operating activities				
Profit attributable to owners of the parent	94,609,078,240	19,936,417,109	70,808,045,526	9,554,795,531
Adjustment of profit to net cash provided by				
(used in) operating activities				
Depreciation and amortization	128,733,799,545	143,336,113,767	18,674,804,701	16,740,654,680
(Reversal) loss on impairment of asstes	2,587,860,987	71,416,007,108	(44,610,013)	(1,055,745)
Loss on impairment of investment	4,615,142,246	1,457,211,207	838,062,044	16,958,015,658
(Gain) loss on disposal of assets	(33,538,901)	1,239,448,254	14,196,605	649,742,609
Gain on disposal of investments	(1,887,214,404)	(2,423,222,481)	-	(10,327,276,047)
Share of profit from investments in joint ventures	(2,980,567,211)	(1,749,942,869)	-	-
Share of profit from investments in associates	(1,162,641,231)	(4,281,762,039)	-	-
Profit attributable to non-controlling interests	34,966,013,490	10,782,887,841	-	-
Provision for employee benefit obligations	2,121,893,119	2,058,880,178	772,524,145	692,026,429
Unrealized loss on exchange rates	588,651,939	13,527,338,889	669,025,390	2,951,948,560
Unrealized (gain) loss on derivatives	4,573,363,592	1,743,416,331	(181,345,533)	1,490,869,991
(Reversal of) doubtful accounts	276,281,098	(3,394,453,680)	5,153,796,614	35,047,242,470
Amortization of exploration costs	1,023,210,620	5,123,388,019	-	-
Reversal of allowance for loss on decline				
in value of inventories	(3,132,533,767)	(6,752,831,122)	(545,488,112)	(736,119,749)
(Reversal of) allowance for obsolete materials				
and supplies	51,611,651	355,652,709	7,557,229	(5,551,652)
Dividends income	(797,964,720)	(483,229,196)	(24,937,105,096)	(25,236,298,571)
Income taxes	26,593,074,497	25,071,429,548	9,072,769,378	4,003,158,050
Interest income	(5,625,346,196)	(6,292,921,571)	(4,521,724,748)	(4,233,115,363)
Finance costs	28,887,254,079	30,079,395,891	10,906,455,692	11,374,727,185
Others	183,661,456	20,777,952	75,590,275	104,862,339
Profit from operating activities before				
changes in operating assets and liabilities	314,191,090,129	300,770,001,845	86,762,554,097	59,028,626,375



PTT Public Company Limited and Its Subsidiaries For the Year Ended December 31, 2016

Unit: Baht

Consolidated financial statements Separate financial statements

	December 31, 2016	December 31, 2015	December 31, 2016	December 31, 2015
(Increase) decrease in operating assets				
Trade accounts receivable	(1,634,008,318)	34,553,065,347	684,892,295	20,794,705,581
Other accounts receivable	10,733,769,228	(10,768,065,732)	5,357,415,728	8,361,256,557
Inventories	(30,842,111,464)	43,472,348,395	(5,276,259,246)	13,274,288,989
Materials and supplies	212,059,703	(3,828,233,161)	(377,090,199)	(433,033,456)
Other current assets	(710,888,167)	(79,353,011)	606,272,071	(4,001,142,920)
Advance payments for gas purchases	1,114,567,733	1,868,545,032	1,292,097,741	2,184,218,909
Other non-current assets	(20,202,912,872)	(7,017,679,530)	1,135,905,642	(3,735,355,691)
Increase (decrease) in operating liabilities				
Trade accounts payable	11,077,080,579	(31,942,847,237)	9,308,816,872	(19,143,408,530)
Other accounts payable	(88,715,153)	3,812,473,470	3,459,602,197	(1,035,531,643)
Other current liabilities	2,006,187,895	(57,644,509)	(476,162,167)	4,101,568,509
Deposits on LPG cylinders	587,454,050	581,596,920	587,454,050	581,596,920
Other non-current liabilities	14,600,287,812	4,111,333,266	(614,873,836)	6,870,333,201
	(13,147,228,974)	34,705,539,250	15,688,071,148	27,819,496,426
Cash received from operating activities	301,043,861,155	335,475,541,095	102,450,625,245	86,848,122,801
Income tax paid	(30,608,627,146)	(42,137,161,044)	(5,388,119,380)	(5,035,756,803)
Net cash provided by operating activities	270,435,234,009	293,338,380,051	97,062,505,865	81,812,365,998



PTT Public Company Limited and Its Subsidiaries For the Year Ended December 31, 2016

Unit: Baht

Consolidated financial statements Separate financial statements

	December 31, 2016	December 31, 2015	December 31, 2016	December 31, 2015
Cash flows from investing activities				
Payment of property, plant and equipment				
and investment properties	(105,625,743,322)	(154,869,947,143)	(23,332,183,687)	(35,446,938,207)
Payment of intangible assets	(2,896,181,830)	(6,419,437,911)	(113,746,520)	(69,800,965)
Payment of mining properties development	(6,779,727)	(1,496,702,048)	-	-
Payment of long-term rental contracts on land				
and building	(879,396,276)	(271,956,362)	(483,789,112)	(271,889,500)
Payment of available for sale investment	(7,241,567,484)	-	-	-
Payment of investments in subsidiaries	-	(273,986,608)	(1,874,815,115)	(3,357,532,820)
Payment of investments in joint ventures	(238,279,000)	(165,324,280)	-	-
Payment of investments in associates	(1,099,191,075)	(795,937,500)	-	-
Payment of other long term investment	(236,747,219)	-	-	-
Proceed (payment) of short-term loans	(53,054,545)	-	(83,491,726)	3,296,936,284
Payment of long-term loans	(4,926,055,615)	(530,856,554)	(6,840,217,600)	(8,037,480,830)
Proceeds from disposals of property, plant				
and equipment and intangible assets	196,427,129	546,014,789	109,926,686	365,259,464
Proceeds from disposals of investments in subsidiaries	307,185,973	4,370,732,683	-	706,980,000
Proceeds from a return on its investments				
in joint ventures	1,371,266,397	73,883,832	1,325,000,000	-
Proceeds from disposals of investments in associates	-	27,683,249,492	-	27,683,249,492
Proceeds from disposals of other long-term investments	-	-	-	31,034,272
Proceeds from long-term loans	-	3,528,321,941	6,477,185,637	6,052,007,867
Proceeds from cancellation of leasehold in gas stations	12,839,082	25,232,600	12,839,082	25,232,600
Proceeds from finance lease instalments	6,000,000	2,257,745,279	-	1,111,368,279
Increase in current investments	(68,185,067,033)	(24,202,432,808)	(24,558,020,939)	(15,057,584,690)
Interest received	4,492,257,194	7,197,408,136	2,575,840,069	2,703,238,647
Dividends received	6,087,696,704	10,301,012,858	24,937,105,096	25,236,298,571
Net cash provided by (used in) investing activities	(178,914,390,647)	(133,042,979,604)	(21,848,368,129)	4,970,378,464



PTT Public Company Limited and Its Subsidiaries For the Year Ended December 31, 2016

Unit: Baht

Consolidated financial statements Separate financial statements

Notes	December 31, 2016	December 31, 2015	December 31, 2016	December 31, 2015
Cash flows from financing activities				
Proceeds from issuance of ordinary shares of subsidiaries	101,776,414	10,208,355,328	_	
Proceeds (repayment) from short-term loans		-	252,798,028	(1,142,296,219)
Proceeds from decrease in treasury shares of subsidiary	32,562,500		-	(1,172,230,213)
Proceeds from long-term loans	26,651,894,839	48,179,019,927		4,193,809,606
Proceeds from financial derivative contarct - net	5,491,166,489	-0,175,015,527	_	-,133,003,000
Repayment of long-term loans	(74,153,077,256)	(134,958,004,088)	(36,499,015,396)	(34,603,505,396)
Repayment of finance lease instalments	(841,573,563)	(688,319,709)	(546,392,992)	(553,421,036)
Increase (decrease) in bank overdrafts	(0+1,070,000)	(000,010,700)	(0+0,002,002)	(333,421,030)
and short-term loans from financial institutions	4,051,850,033	(5,336,285,278)	-	-
Finance costs paid	(32,618,015,201)	(35,302,560,188)	(14,432,361,167)	(13,765,340,188)
Purchase of treasury shares of subsidiary	(330,081,400)	(2,104,534,625)	-	
Dividend paid	(44,589,910,656)	(43,811,002,166)	(28,560,055,960)	(31,401,457,183)
Net cash used in financing activities	(116,203,407,801)	(163,813,330,799)	(79,785,027,487)	(77,272,210,416)
Effects of exchange rates on cash and cash equivalents	(447,884,676)	(761,517,083)	(305,399,748)	(3,884,774)
Currency translation differences	718,913,453	9,871,691,638	-	-
Cash and cash equivalents classified as				
non-current asset held-for-sale	-	173,710,948	-	-
Net increase (decrease) in cash and cash equivalents	(24,411,535,662)	5,765,955,151	(4,876,289,499)	9,506,649,272
Cash and cash equivalents at beginning of periods	239,977,946,794	234,211,991,643	67,524,575,559	58,017,926,287
Cash and cash equivalents at end of periods 4	215,566,411,132	239,977,946,794	62,648,286,060	67,524,575,559



Notes to Financial Statements

PTT Public Company Limited and Its Subsidiaries For the Year Ended December 31, 2016

1. General Information

PTT Public Company Limited (the Company) is incorporated as a public limited company in Thailand, and is listed on the Stock Exchange of Thailand. The address of its incorporated and registered office is as follows:

The Head Office of the Company is located at 555 Vibhavadi-Rangsit Road, Chatuchak, Bangkok, Thailand.

The Company's principal activity is the operation of its petroleum business. The Company has invested in subsidiaries, joint arrangements and associates (the Group), which are engaged in upstream petroleum and natural gas, downstream petroleum, coal and other related businesses as described in Note 39 Operating Segments.

2. Basis of Financial Statements Preparation

The consolidated and the separate financial statements have been prepared in accordance with Thai Financial Reporting Standards under the Accounting Act, B.E. 2543. These are Thai Financial Reporting Standards under the Accounting Profession Act, B.E. 2547, including guidelines promulgated by the Federation of Accounting Professions (FAP), and the financial reporting requirements of the Securities and Exchange Commission under the Securities and Exchange Act, B.E. 2535.

The Company has presented the financial statements in compliance with the notification of the Department of Business Development "Definition of the abbreviated components required in the financial statements, B.E. 2554", dated September 28, B.E. 2554, under the third paragraph of section 11 of the Accounting Act, B.E. 2543.

The consolidated and the separate financial statements have been prepared based on the assumption that users of the financial statements have an understanding of Thai generally accepted accounting principles and practices, which may differ from generally accepted accounting principles adopted in other countries.

The consolidated and the separate financial statements have been prepared under the historical cost convention with the exception of certain amounts, which are accounted for using the fair value method as disclosed in Note 3.2 Significant Accounting Policies.

2. Basis of Financial Statements Preparation (Continued)

The significant transactions arising between the Company and subsidiaries have been eliminated from the consolidated financial statements.

The consolidated and the separate financial statements are prepared and presented in Thai Baht and are rounded in the notes to financial statements to the nearest million unless otherwise stated.

This English translation of the financial statements has been prepared from the statutory financial statements that were issued in Thai language. In the event of a conflict or a difference in interpretation between the two languages, the Thai language statutory financial statements shall prevail.

3. Accounting Policies

3.1 Thai Accounting Standards (TASs), Thai Financial Reporting Standards (TFRSs), Thai Standing Interpretations and Thai Financial Reporting Interpretations, effective for accounting periods on or after the current periods and will become effective in the future are as follows:

Effective for accounting periods on or after January 1, 2016

•	Thai	Accounting	g Standaı	rd No.	1 (revised	2015)	
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- Thai Accounting Standard No. 2 (revised 2015)
- Thai Accounting Standard No. 7 (revised 2015)
- Thai Accounting Standard No. 8 (revised 2015)
- Thai Accounting Standard No. 10 (revised 2015)
- Thai Accounting Standard No. 11 (revised 2015)
- Thai Accounting Standard No. 12 (revised 2015)
- Thai Accounting Standard No. 16 (revised 2015)
- Thai Accounting Standard No. 17 (revised 2015)
- Thai Accounting Standard No. 18 (revised 2015)
- Thai Accounting Standard No. 19 (revised 2015)
- Thai Accounting Standard No. 20 (revised 2015)
- Thai Accounting Standard No. 21 (revised 2015)
- Thai Accounting Standard No. 23 (revised 2015)
- Thai Accounting Standard No. 24 (revised 2015)
- Thai Accounting Standard No. 26 (revised 2015)

,	2016
	Presentation of Financial Statements
	Inventories
	Statement of Cash Flows
	Accounting Policies, Changes in Accounting Estimates
	and Errors
	Events after the Reporting Period
	Construction Contracts
	Income Taxes
	Property, Plant and Equipment
	Leases
	Revenue
	Employee Benefits
	Accounting for Government Grants
	and Disclosure of Government Assistance
	The Effects of Changes in Foreign Exchange Rates
	Borrowing Costs
	Related Party Disclosures
	Accounting and Reporting by Retirement Benefit Plans

Effective for accounting periods on or after January 1, 2016 (Continued)

Thai Accounting Standard No. 27 (revised 2015)	Separate Financial Statements
Thai Accounting Standard No. 28 (revised 2015)	Investments in Associates and Joint Ventures
Thai Accounting Standard No. 29 (revised 2015)	Financial Reporting in Hyperinflationary Economies
Thai Accounting Standard No. 33 (revised 2015)	Earnings per Share
Thai Accounting Standard No. 34 (revised 2015)	Interim Financial Reporting
Thai Accounting Standard No. 36 (revised 2015)	Impairment of Assets
Thai Accounting Standard No. 37 (revised 2015)	Provisions, Contingent Liabilities and Contingent Assets
Thai Accounting Standard No. 38 (revised 2015)	Intangible Assets
Thai Accounting Standard No. 40 (revised 2015)	Investment Property
 Thai Accounting Standard No. 41 	Agriculture
Thai Financial Reporting Standard No. 2	Share-based Payment
(revised 2015)	
 Thai Financial Reporting Standard No. 3 	Business Combinations
(revised 2015)	
 Thai Financial Reporting Standard No. 4 	Insurance Contracts
(revised 2015)	
 Thai Financial Reporting Standard No. 5 	Non-current Assets Held for Sale
(revised 2015)	and Discontinued Operations
 Thai Financial Reporting Standard No. 6 	Exploration for and Evaluation of Mineral Resources
(revised 2015)	
 Thai Financial Reporting Standard No. 8 	Operating Segments
(revised 2015)	
 Thai Financial Reporting Standard No. 10 	Consolidated Financial Statements
(revised 2015)	
 Thai Financial Reporting Standard No. 11 	Joint Arrangements
(revised 2015)	
 Thai Financial Reporting Standard No. 12 	Disclosure of Interests in Other Entities
(revised 2015)	
 Thai Financial Reporting Standard No. 13 	Fair Value Measurement
(revised 2015)	

Effective for accounting periods on or after January 1, 2016 (Continued)

Thai Standing Interpretation No. 10	Government Assistance - No Specific Relation to
(revised 2015)	Operating Activities
Thai Standing Interpretation No. 15	Operating Leases - Incentives
(revised 2015)	
Thai Standing Interpretation No. 25	Income Taxes - Changes in the Tax Status of an Entity
(revised 2015)	or its Shareholders
Thai Standing Interpretation No. 27	Evaluating the Substance of Transactions Involving the Legal
(revised 2015)	Form of a Lease
Thai Standing Interpretation No. 29	Service Concession Arrangements: Disclosures
(revised 2015)	
Thai Standing Interpretation No. 31	Revenue - Barter Transactions Involving Advertising Services
(revised 2015)	
Thai Standing Interpretation No. 32	Intangible Assets - Web Site Costs
(revised 2015)	
Thai Financial Reporting Interpretation No. 1	Changes in Existing Decommissioning, Restoration
(revised 2015)	and Similar Liabilities
Thai Financial Reporting Interpretation No. 4	Determining Whether an Arrangement Contains a Lease
(revised 2015)	
Thai Financial Reporting Interpretation No. 5	Rights to Interests arising from Decommissioning,
(revised 2015)	Restoration and Environmental Rehabilitation Funds
Thai Financial Reporting Interpretation No. 7	Applying the Restatement Approach under
(revised 2015)	TAS 29 (revised 2015) Financial Reporting
	in Hyperinflationary Economies
Thai Financial Reporting Interpretation No. 10	Interim Financial Reporting and Impairment
(revised 2015)	
Thai Financial Reporting Interpretation No. 12	Service Concession Arrangements
(revised 2015)	
Thai Financial Reporting Interpretation No. 13	Customer Loyalty Programmes
(revised 2015)	

Effective for accounting periods on or after January 1, 2016 (Continued)

 Thai Financial Reporting Interpretation No. 14 (revised 2015) 	TAS 19 (revised 2015) - The Limit on a Defined Benefit Asset, Minimum Funding Requirements and their Interaction
Thai Financial Reporting Interpretation No. 15	Agreements for the Construction of Real Estate
(revised 2015)	
Thai Financial Reporting Interpretation No. 17	Distributions of Non-cash Assets to Owners
(revised 2015)	
Thai Financial Reporting Interpretation No. 18	Transfers of Assets from Customers
(revised 2015)	
Thai Financial Reporting Interpretation No. 20	Stripping Costs in the Production Phase of a Surface Mine
(revised 2015)	
Thai Financial Reporting Interpretation No. 21	Levies

Thai Financial Reporting Interpretation No. 21

Effective for accounting periods on or after January 1, 2017

- Thai Accounting Standard No. 1 (revised 2016) Presentation of Financial Statements • Thai Accounting Standard No. 2 (revised 2016) Inventories • Thai Accounting Standard No. 7 (revised 2016) Statement of Cash Flows • Thai Accounting Standard No. 8 (revised 2016) Accounting Policies, Changes in Accounting Estimates
- Thai Accounting Standard No. 10 (revised 2016)
- Thai Accounting Standard No. 11 (revised 2016)
- Thai Accounting Standard No. 12 (revised 2016)
- Thai Accounting Standard No. 16 (revised 2016)
- Thai Accounting Standard No. 17 (revised 2016)
- Thai Accounting Standard No. 18 (revised 2016)
- Thai Accounting Standard No. 19 (revised 2016)
- Thai Accounting Standard No. 20 (revised 2016)
- **Employee Benefits** Accounting for Government Grants
 - and Disclosure of Government Assistance

and Errors

Construction Contracts

Income Taxes

Leases

Revenue

Events after the Reporting Period

Property, Plant and Equipment

Effective for accounting periods on or after January 1, 2017 (Continued)

• Thai Accounting Standard No. 21 (revised 2016) The Effects of Changes in Foreign Exchange Rates
• Thai Accounting Standard No. 23 (revised 2016	b) Borrowing Costs
• Thai Accounting Standard No. 24 (revised 2016	i) Related Party Disclosures
• Thai Accounting Standard No. 26 (revised 2016	b) Accounting and Reporting by Retirement Benefit Plans
• Thai Accounting Standard No. 27 (revised 2016	5) Separate Financial Statements
• Thai Accounting Standard No. 28 (revised 2016	i) Investments in Associates and Joint Ventures
• Thai Accounting Standard No. 29 (revised 2016	5) Financial Reporting in Hyperinflationary Economies
• Thai Accounting Standard No. 33 (revised 2016	i) Earnings per Share
• Thai Accounting Standard No. 34 (revised 2016	i) Interim Financial Reporting
• Thai Accounting Standard No. 36 (revised 2016	i) Impairment of Assets
• Thai Accounting Standard No. 37 (revised 2016	b) Provisions, Contingent Liabilities and Contingent Assets
• Thai Accounting Standard No. 38 (revised 2016	i) Intangible Assets
• Thai Accounting Standard No. 40 (revised 2016	i) Investment Property
• Thai Accounting Standard No. 41 (revised 2016	i) Agriculture
Thai Accounting Standard No. 104	Accounting for Troubled Debt Restructuring
(revised 2016)	
Thai Accounting Standard No. 105	Accounting for Investments in Debt and Equity Securities
(revised 2016)	
Thai Accounting Standard No. 107	Financial Instruments Disclosure and Presentation
(revised 2016)	
Thai Financial Reporting Standard No. 2	Share-Based Payment
(revised 2016)	
Thai Financial Reporting Standard No. 3	Business Combinations
(revised 2016)	
Thai Financial Reporting Standard No. 4	Insurance contracts
(revised 2016)	
Thai Financial Reporting Standard No. 5	Non-currents Assets Held for Sale
(revised 2016)	and Discontinued Operations
Thai Financial Reporting Standard No. 6	Exploration for and Evaluation of Mineral Resources
(revised 2016)	
Thai Financial Reporting Standard No. 8	Operating Segments
(revised 2016)	

Effective for accounting periods on or after January 1, 2017 (Continued)

• Thai Financial Reporting Standard No. 10 **Consolidated Financial Statements** (revised 2016) • Thai Financial Reporting Standard No. 11 Joint Arrangements (revised 2016) • Thai Financial Reporting Standard No. 12 Disclosure of Interests in Other Entities (revised 2016) • Thai Financial Reporting Standard No. 13 Fair Value Measurement (revised 2016) • Thai Standard Interpretations No. 10 Government Assistance - No Specific Relation to (revised 2016) **Operating Activities** • Thai Standard Interpretations No. 15 **Operating Leases - Incentives** (revised 2016) • Thai Standard Interpretations No. 25 Income Taxes - Changes in the Tax Status of (revised 2016) an Entity or its Shareholders • Thai Standard Interpretations No. 27 Evaluating the Substance of Transactions Involving (revised 2016) the Legal Form of a Lease • Thai Standard Interpretations No. 29 **Disclosure - Service Concession Arrangements** (revised 2016) • Thai Standard Interpretations No. 31 Revenue - Barter Transactions Involving Advertising Services (revised 2016) • Thai Standard Interpretations No. 32 Intangible Assets - Website Costs (revised 2016) • Thai Financial Reporting Interpretations No. 1 Changes in Existing Decommissioning, (revised 2016) Restoration and Similar Liabilities Determining whether an Arrangement contains a Lease • Thai Financial Reporting Interpretations No. 4 (revised 2016) • Thai Financial Reporting Interpretations No. 5 Rights to Interests arising from Decommissioning, (revised 2016) Restoration and Environmental Rehabilitation Funds • Thai Financial Reporting Interpretations No. 7 Applying the Restatement Approach under TAS 29 (revised 2016) (revised 2016) Financial Reporting in Hyperinflationary Economies

Effective for accounting periods on or after January 1, 2017 (Continued)

 Thai Financial Reporting Interpretations No. 10 (revised 2016) 	Interim Financial Reporting and Impairment
Thai Financial Reporting Interpretations No. 12 (revised 2016)	Service Concession Arrangements
Thai Financial Reporting Interpretations No. 13 (revised 2016)	Customer Loyalty Programmes
Thai Financial Reporting Interpretations No. 14 (revised 2016)	TAS 19 (revised 2016) Employee Benefits - The Limit on a Defined Benefit Asset, Minimum Funding Requirements and their Interaction
 Thai Financial Reporting Interpretations No. 15 (revised 2016) 	Agreements for the Construction of Real Estate
 Thai Financial Reporting Interpretations No. 17 (revised 2016) 	Distributions of Non-cash Assets to Owners
Thai Financial Reporting Interpretations No. 18 (revised 2016)	Transfers of Assets from Customers
Thai Financial Reporting Interpretations No. 20 (revised 2016)	Stripping Costs in the Production Phase of a Surface Mine
Thai Financial Reporting Interpretations No. 21 (revised 2016)	Levies

Federation of Accounting Professions (FAP) has issued a number of new and revised Thai Accounting Standards, Thai Financial Reporting Standards, Thai Standing Interpretations and Thai Financial Reporting Interpretations, which are effective for accounting periods beginning on or after January 1, 2015 and January 1, 2016. The management of the Group has assessed the effects of the standards and interpretations and believes that they will not have any significant impact on the consolidated and the separate financial statements. However, one standard involves changes to key principles, which are summarised below.

TAS 27 (revised 2016) Separate Financial Statements

This revised standard stipulates an additional option to account for investments in subsidiaries, joint ventures and associates in separate financial statements under the equity method, as described in TAS 28 (revised 2016) Investments in Associates and Joint Ventures. However, the entity is to apply the same accounting treatment for each category of investment. If an entity elects to account for such investments using the equity method in the separate financial statements, it has to adjust the transaction retrospectively.

This standard will not have any significant impact on the Group's financial statements because the management has decided to continue accounting for such investments under the cost method in the separate financial statements.

3.2 Significant Accounting Policies

3.2.1 Cash and Cash Equivalents

Cash and cash equivalents comprise cash on hand, deposits held at call with banks and other short-term highly liquid investments which have original maturities within three months. Bank overdrafts and short-term loans from financial institutions are included in current liabilities in the statements of financial position.

3.2.2 Trade Accounts and Other Accounts Receivable

Trade accounts and other accounts receivable are carried at net realizable value. Doubtful accounts receivable are estimated based on uncollectible amounts estimating from outstanding receivables at the statement of financial position date based on collection experience of their current financial status, also with percentage of debt aging. Allowance for doubtful debt is recorded as administrative expenses in profit or loss.

3.2.3 Inventories

Inventories are stated at the lower of cost and net realizable value. The cost is calculated by using the weighted average cost method. The cost of inventory comprises total purchasing costs, payments related to purchasing, discounts, quantity discounts, as well as contributions to or compensation from taxes several funds. Net realizable value is calculated from estimated selling price in the ordinary course of business, less the costs of completion and related selling expenses. When net realizable value of inventories is lower than cost of acquisition, it is presented under cost of goods sold in the statement of income. An allowance for impairment will be recognized for obsolete or defective inventories.

3.2.4 Materials and Supplies

Materials and supplies are stated at cost calculated by using the weighted average cost method, less allowance for obsolete, defective or unserviceable items.

3.2.5 Non-current Assets and Liabilities Held-for-sale

Disposed assets or asset groups, including non-current assets and liabilities held-for-sale, are classified as asset held-for-sale if their carrying amounts will be recovered through a sale transaction rather than through continuing use. This condition is met only when the sale is highly probable and the asset is available for immediate sale in its present condition, subject only to terms that are usual and customary for sales of such assets. Management must commit to the sale of the assets and they must be actively marketed at a price that is reasonable compared to their current fair value, with the expectation that sale should be recorded as completed within one year from the date of classification. These disposed assets or asset groups are measured at the lower of carrying amount and fair value less costs to sell.

The Group ceases to depreciate and amortize property, plant and equipment and intangible assets from the date the assets meet the criteria for classification as assets held-for-sale. The Group continues to recognize liabilities, including interests and other expenses attributable to liabilities classified as held-for-sale.

3.2.6 Investments in Subsidiaries

Subsidiaries are those companies which directly or indirectly controlled by the parent company. Control exists when the parent company has the power over the subsidiaries so as to obtain variable returns from the involvement with the subsidiaries and has the ability to affect those returns through the power over the subsidiaries. In case of the parent company has voting rights less than half of total voting rights in subsidiaries, the parent company will reconsider the related facts and circumstances in order to determine whether the parent company has the power to control over such subsidiaries or not.

The financial statements of subsidiaries are included in the consolidated financial statements from the date that control commences until the date that control ceases.

The parent company allocates profit or loss and each component of other comprehensive income or loss to its shareholders and the non-controlling interests even if this results in a deficit non-controlling interest balance.

The purchase method of accounting is used to account for business combinations, except the business combination under common control. The cost of a business combination is measured as the sum of fair value of any consideration transferred, the recognized amount of any non-controlling interest in the acquiree, and the fair value of the existing equity interest as of the purchasing date (if the business combination is achieved in stages).

3.2.6 Investments in Subsidiaries (Continued)

- For each business combination, the Group measures the recognized amount of any non-controlling interest in the acquiree at either the fair value or the non-controlling interest's proportionate share of the net of identifiable assets of the acquiree.
- In the case of a business combination achieved in stages, the Group measures the acquisition-date fair value of the acquirer's previously-held equity interest in the acquiree and recognized gains or losses in statement of income.
- Costs related to the acquisition, including professional fees, advisory fees and other consulting fees, are recognized as expenses in statement of income.

The Group measures the identifiable assets and liabilities acquired at fair value as of the acquisition date.

Any changes in the equity interest in subsidiaries of the Group while control is retained are recorded as surplus (deficit) from the changes in the ownership interests in subsidiaries in equity.

Upon the disposal of investments, the difference between the net disposal proceeds and the carrying amount of the investments is recorded in profit or loss.

Investments in subsidiaries have been presented in the separate financial statements under the cost method.

The list of investments in subsidiaries of the Group and proportion of ownership interests have been set out in Note 13.

3.2.7 Investments in Joint Ventures and Associates

Joint ventures are joint arrangement whereby the Group has joint control of the arrangement and has rights to the net assets of the arrangement. The joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require the unanimous consent of the parties sharing control.

Associates are those companies in which the Group has significant influence, but not control or joint control, over the financial and operating policies.

The Group uses the purchase method to record the acquisition of joint ventures and associates. Acquisition costs which are higher than fair value of identifiable assets and liabilities of the Group's equity interest in joint ventures and associates are recorded as goodwill and included in the investment in joint ventures and associates.

The consolidated financial statements of the Group include the share of profit and loss from joint ventures and associates under equity method, from the date that significant influence commences until the date that significant influence ceases. Unrealized gains or losses on transactions between the Group and its joint ventures and associates are eliminated to the extent of the Group's interest in the joint ventures and associates unless the transactions provide evidence of impairment of the transferred assets.

3.2.7 Investments in Joint Ventures and Associates (Continued)

The Group records share of profit or loss from joint ventures and associates in proportion to the Group's equity interest in those gains and losses. Any dividends received from joint ventures and associates are deducted from the book value of the investments.

When the Group's share of loss in joint ventures and associates equals or exceeds its interest in the joint ventures and associates, the Group does not recognize further losses, unless the Group has incurred collateral or constructive obligations or made payments on behalf of the joint ventures and associates.

Upon the disposal of investments, the difference between the net disposal proceeds and the carrying amount of the investments is recorded in profit or loss.

Investments in joint ventures and associates have been presented in the consolidated financial statements under the equity method.

The list of investments in joint ventures and associates of the Group and proportion of ownership interests have been set out in Note 13.

3.2.8 Joint Operations

Joint operations are joint arrangement whereby the Group has rights to assets and obligations relating to the joint arrangement. The Group has recognized assets, liabilities, revenues and expenses by the portion of joint operations in the separate and the consolidated financial statements from the date that joint control commences until the date that joint control ceases.

The list of joint operations of the Group and transactions relating to its involvements have been set out in Note 13.

3.2.9 Other Investments

Investments other than investments in subsidiaries, joint ventures, and associates are classified as available-for-sale investments and general investments.

Investments in equity securities and mutual funds that are marketable securities are classified as available-for-sale investments and carried at fair value in the statements of financial position. Any changes in value are recognized as gains (losses) from fair value measurement of available-for-sale investments in other comprehensive income or loss and accumulated amounts are accumulated differences are presented in other components of equity under equity.

3.2.9 Other Investments (Continued)

Investments in non-marketable securities, which are classified as general investments, are carried at cost in the statement of financial position net of allowance for impairment. Impairment testing is performed when there is a factor indicating that an investment might be impaired. If the carrying value of the investment is higher than its recoverable amount, impairment losses are recognized in profit or loss immediately.

Upon the disposal of investments, the difference between the net disposal proceeds and the carrying amount is recognized in profit or loss. When disposing of some parts of the Group's particular investment in debt or equity securities, the carrying amount of the part disposed is determined by reference to the weighted average carrying amount of the total holding of the investment.

3.2.10 Related Parties

Related parties of the Company are those enterprises or individuals that control or are controlled by the Company, or are under common control with the Company, including holding companies, subsidiaries, and fellow Group subsidiaries, as well as those that have equity interests in the Company that result in significant influence or joint control over the Company. In addition, related parties include associates, joint ventures, the management and directors of the Company, and entities which the management or directors of the Company, directly or indirectly, control, jointly controlled, or have significant influence.

In considering each possible related party relationship, attention is directed more to the substance of the relationship than to the legal form.

3.2.11 Foreign Currency Translation

The consolidated financial statements and the separate financial statements have been presented in Thai Baht, which is the Company's functional currency. Transactions of each company included in the consolidated financial statements are recorded in their own functional currencies.

Foreign currency transactions are translated into functional currency at the exchange rates prevailing at the transaction date. Monetary assets and liabilities at the statements of financial position date denominated in foreign currencies are translated into functional currency at the exchange rate prevailing at that date. Gains and losses resulting from the settlement of such transactions and from the translation of monetary assets and liabilities denominated in foreign currencies are recognized in profit or loss.

Assets and liabilities of foreign operations are translated into Thai Baht using the closing rate at the statements of financial position date. Revenues and expenses are translated into Thai Baht using the average rate during the period. Differences arising from currency translation are included in other comprehensive income and accumulated differences are presented in other components of equity under equity.

Upon the disposal of self-sustaining foreign entities, accumulated currency translation differences under shareholders' equity are recognized as gains or losses on disposal.

3.2.12 Borrowing Costs

Borrowing costs comprise interest and other costs associated with the borrowings. Borrowing costs incurred on qualifying assets are capitalized as a cost of the qualifying property until all the activities necessary to prepare the property for its intended use are substantially completed. When funds are specifically borrowed for the construction or the production of asset, the amount of borrowing costs capitalized is determined from the actual borrowing costs during the year less any income on the temporary investment of those borrowings. When funds are borrowed for general purpose, the Group multiplies the capitalization rate by the capital expenditure in allocating borrowing costs to costs of assets.

All other borrowing costs are expensed in the period they incurred.

3.2.13 Property, Plant and Equipment

Property, plant and equipment are initially recognized at cost less accumulated depreciation and allowance for impairment. The costs comprise any costs directly attributable to bringing the asset to the location and condition necessary for it to be capable of operating in the manner intended by the management. These include decommissioning costs, delivery and restoration costs, and any obligation associated with either its acquisition or a consequence of having used the items.

Repair and maintenance costs are recognized as expenses in profit or loss during the financial period in which they are incurred. The costs of significant asset improvements, major turnarounds and inspections are included in the carrying amount of the asset. In case of replacement, the Group writes off carrying value of replaced items.

The Group depreciates each significant component of property, plant and equipment separately.

The Group estimates the residual value of the property, plant and equipment based on current assessment of the recoverable amount less cost to sell. The Group reviews the residual value, the useful lives and depreciation methods of assets at least once a year.

3.2.13 Property, Plant and Equipment (Continued)

Depreciation is recorded as expenses in profit or loss and is calculated using the straight-line method or unit of production method over the estimated useful lives of the assets, which are as follows:

Buildings and building improvements	3 - 30 years
Machinery and equipment	3 - 40 years
Other machinery	Unit of production
Other assets	5 - 10 years

Land and construction in progress are not depreciated.

Gains or losses on disposal of property, plant and equipment are determined by comparing the proceeds from sales with the carrying amounts on the disposal dates, and are included in operating income or loss.

Oil and Gas Exploration and Production Properties

The petroleum exploration and production business accounts for its oil and gas exploration and production properties in accordance with the successful efforts method for which the accounting policies are as follows:

Cost of Properties

The cost of properties comprises the total acquisition costs of concession rights or a portion thereof proportionate to the Company's interest in the properties and decommissioning costs.

Exploratory drilling costs are capitalized and are classified as assets of the projects if the exploratory wells have found proved reserves to be commercially produced. Otherwise, such drilling costs are expensed profit or loss.

Exploratory costs, comprising geological and geophysical costs as well as area reservation fees during the exploration stage, are charged as expenses when incurred in profit or loss.

Development costs, whether relating to successful or unsuccessful development wells, are capitalized and classified as assets.

3.2.13 Property, Plant and Equipment (Continued)

Oil and Gas Exploration and Production Properties (Continued)

Depreciation

The capitalized acquisition costs of concession rights are depleted and amortized using the unit of production method based on estimated proved reserves. Depreciation, depletion and amortization of exploratory wells, development costs, equipment and the operating costs of support equipment as well as decommissioning costs, except unsuccessful projects, are calculated using the unit of production method based on estimated proved reserves or proved developed reserves. Changes in reserve estimates are recognized prospectively.

Proved reserves and proved developed reserves are calculated by the Group's own engineers and information from the joint operators.

Carried Cost under Petroleum Sharing Contracts

The petroleum exploration and production business records the carried costs under Petroleum Sharing Contracts using the following accounting policies.

Under some Petroleum Sharing Contracts in which the government has a participating interest require the contractor parties excluding the government to fund the costs of all exploration operations until determination of the first development area (carried cost). The carried costs are funded by the contractor parties at the proportion agreed among the parties. When the project commences production, the carried costs will be fully recouped without interest among the contractor parties under the agreed procedures, in the form of petroleum product sharing. The Group records the carried costs according to the type of petroleum operations, under the successful efforts method. Most of them are recorded as oil and gas properties in the statements of financial position while exploration expenses are recorded in profit or loss.

3.2.14 Investment Properties

Investment properties are initially recognized at cost, including expenses directly associated with the asset acquisition, less accumulated depreciation and allowance for impairment.

The Group has selected the cost model for accounting for its investment properties. This model is in accordance with that described in the accounting policy for property, plant and equipment.

Depreciation is recorded as expenses in profit or loss and is calculated using the straight-line method over the estimated useful lives of the assets, which range from 5 to 30 years. Land and construction in progress are not depreciated.

3.2.15 Intangible assets

Intangible assets are initially recognized at cost less accumulated amortization and allowance for impairment. Amortization is recorded as expenses in profit or loss.

The Group records the initial costs of intangible assets from business combination at the acquisition-date fair value of the assets. Intangible assets from other sources are initially recognized at their costs.

Intangible assets include computer software licenses, asset rights such as gas transmission pipelines, resource exploration and valuation assets, and other intangible assets, such as other operating rights, patents, and customer contracts.

Exploration and evaluation assets are intangible assets that are recognized at cost in a petroleum exploration and production business. If exploratory projects have found sufficient reserves to be commercially produced, assets under those projects will be transferred to assets under proved reserve project. Subsequently, their values are evaluated based on the method stated in Note 3.2.13 Property, Plant and Equipment. Otherwise, assets under those projects will be fully expensed in profit or loss.

Intangible assets are amortized and recorded as expenses in profit or loss using the straight-line method over the useful lives of the assets which range from 3 to 40 years, except customer contracts which are amortized based on estimated sales volume.

The Group reviews the residual value, useful lives and amortization of intangible assets at least once a year.

3.2.16 Mining Properties

The coal business applies the following accounting policy for coal exploration and production properties including coal mining property rights and deferred mining exploration and development expenditures.

Coal Mining Property Rights

Coal mining property rights comprise the total acquisition costs of concession rights in coal mining including both coal mining exploration and development expenditures.

Deferred Mining Exploration and Development Expenditures

Exploration expenditures relating to areas of interest are recorded at cost as deferred exploration expenditures, which comprise net direct costs, such as licenses, geological and geophysical exploration expenditures, excluding general overheads and administrative expenditures not directly attributable to a particular area of interest, where:

3.2.16 Mining Properties (Continued)

Deferred Mining Exploration and Development Expenditures (Continued)

- a) Such costs are expected to be recovered when the areas are successfully developed and mining operations commence, or from the sales of the areas of interest.
- b) Exploration activities in the areas of interest have not reached the stage which permits a reasonable assessment of the existence of commercial recoverable reserves, and active operations in the areas of interest are continuing.

The recoverable amount of exploration expenditures is thus dependent upon a successful development and receivable economic benefits. When the economic benefits are expected to be minimal or non-existent, deferred exploration expenditures are written off as expenses in profit or loss immediately.

Development expenditures and costs of area development prior to commencement of operations are capitalized as deferred mining costs so long as they meet the above criteria and it is highly probable that they can create future economic benefits.

Amortization

Amortization of coal mining property rights is calculated using the units of production method over the production amount.

The amortization of deferred mining exploration and development expenditures commences when commercial coal production activities commence, using the units of production method.

The volume of proportional production and the useful lives of coal mining concessions are estimated and reviewed by the Group.

3.2.17 Leases

Finance Leases - Where the Group is the Lessee

Leases of property, plant and equipment, where the Group assumes substantially all the risks and rewards of ownership are classified as finance leases. The leased assets are capitalized at the lower of the estimated net present value of the underlying minimum lease payments or fair value of assets. Each minimum lease payment is allocated between liabilities and finance charges in order to achieve a constant interest rate on the remaining balance of the liabilities. The finance leases' liabilities less finance charges are presented as long-term loans. Finance costs are charged to profit or loss over the lease period. Depreciation is charged over the shorter of the useful life of the asset on the lease period.

3.2.17 Leases (Continued)

Finance Leases - Where the Group is the Lessor

Leases of property, plant and equipment under which the Group transfers substantially all the risks and rewards of ownership to lessees are classified as finance leases. The Group realizes the leased assets under asset in the statement of financial position as loans at an amount equal to the net investment in the lease, and allocates finance income based on a pattern reflecting a constant periodic rate of return on the lessor's net investment outstanding in respect of the finance lease.

Operating Leases - Where the Group is the Lessee

Leases of property, plant and equipment where the lessor assumes a significant portion of the risks and rewards of ownership are classified as operating leases. Payments made under operating leases are charged to profit or loss using the straight-line method over the period of the lease.

The costs incurred upon termination of the operating lease agreements prior their maturity, such as penalty paid to the lessor, are recognized as expenses in the period in which the termination takes place.

Operating Leases - Where the Group is the Lessor

Leases of property, plant and equipment where the lessor assumes a significant portion of the risks and rewards of ownership are classified as operating leases. The assets held for operating leases are stated at cost and presented in the statement of financial position according to the nature of the assets. The group recognizes costs, including depreciation, relating to rental income as expenses and recognizes lease income over the lease term on a straight-line basis.

Accounting for an Arrangement Contains a Lease

The Group determined whether an arrangement contains a lease based on the substance of the arrangement. The arrangement contains a lease which depends on the use of a specific asset and the arrangement conveying to the purchaser (lessee) the right to control the use of the underlying asset.

The Group separates payments for the lease and other elements on the basis of their relative fair values. If the Group concludes that it is a finance lease but it is impracticable to separate the payments reliably, the Group will recognize an asset and a liability at an amount equal to the fair value of the underlying asset. Subsequently, the liability is reduced as payments are made and an imputed finance charge on the liability recognized using the Group's incremental borrowing rate of interest.

3.2.18 Goodwill

The Group initially records goodwill at cost, which equals to the excess of the acquisition costs over the fair value of the net assets acquired, and carries out a test for impairment of goodwill at least once a year and when there are circumstances indicate that an investment might be impaired. Where the fair value of the net assets exceeds the cost of acquisition at the acquisition date, the excess is recognized as a gain in profit or loss.

To test for impairment, the Group allocates goodwill from business combinations to each cash-generating unit (or group of cash-generating units) that is expected to benefit from the synergies of the combination. The Group evaluates the recoverable amount of each cash-generating unit (or group of cash-generating units) and if it is lower than the carrying amount of the unit, the Group recognizes impairment losses in profit or loss. Impairment losses of goodwill will not be reversed.

3.2.19 Income Taxes

Current Tax

The Group is taxed on its non-promoted businesses pursuant to the Revenue Code of Thailand, the Petroleum Income Tax Act, B.E. 2514 and Amendment, B.E. 2532 and other applicable laws and regulations of other countries in which the Group has invested.

Current tax is the expected tax payable on the taxable profit for the year, using tax rates enacted at the statements of financial position date in the taxable period, and any adjustment to tax payable in respect of previous years.

Deferred Tax

Deferred tax is recognized in the statements of financial position using the liability method for temporary differences between tax base of assets and liabilities and the carrying amounts in the financial statements. The principal temporary differences arise from property, plant and equipment, intangible assets, and provision for decommissioning costs.

Deferred tax is measured using the tax rates enacted at the statements of financial position date.

Deferred tax assets are recognized to the extent that it is highly probable that the future taxable profits of the Group will be available against which the temporary differences can be utilized. Deferred tax assets are reduced to the extent that it is no longer probable that the related tax benefits will be realized.

The Group recognized deferred tax as income or an expense and included in profit or loss for the period, except to the extent that the tax arises from a transaction or event which is recognized outside profit or loss, either in other comprehensive income or directly in equity, or a business combination.

3.2.19 Income Taxes (Continued)

Deferred Tax (Continued)

Deferred tax assets and liabilities can only be offset if the entity has the legal right to settle on a net basis and the deferred tax balances relate to the same taxation authority.

The Group offsets deferred tax assets and deferred tax liabilities for presentation in the statement of financial position.

3.2.20 Advance Payments for Gas Purchased under Take-or-Pay Agreements

The Company has entered into gas purchase agreements with natural gas producers, under which the Company is required to take delivery of natural gas at annual minimum quantities. During each contract year, if the Company cannot accept natural gas according to the minimum quantities under the agreements, it is required to pay for the volume of natural gas which it cannot actually take (Take-or-Pay). After the end of each contract year, the Company and the natural gas producers have to agree on and accept the volume of gas that should be taken into the calculation of Take-or-Pay for that contract year, which is subject to the basis and conditions in the agreements. Under the agreements, the Company can take certain volumes of prepaid gas (Make-up) in subsequent years after taking delivery of natural gas at the minimum quantities for that given contract year. The Company recognizes its obligations under the agreements as advance payments for gas purchased.

3.2.21 Impairment of Assets

The Group performs the following tests for impairment of assets:

- Goodwill is performed annually or whenever there is an indication that the asset may be impaired.
- Investment properties, property, plant and equipment, intangible assets or mining properties are performed whenever there is an indication that the assets may be impaired.

The Group recognizes an impairment loss when the recoverable amount of an asset is lower than its carrying amount, which is the higher of the asset's fair value less cost to sell and its value in use. The Group determines value in use by estimating the present value of future cash flows generated by the asset, discounted using a pre-tax discount rate which reflects current market assessments of the time value of money and the risk specific to the asset.

In determining fair value less costs to sell, an appropriate valuation model is used. The calculation reflects the amount that the Group could obtain from the disposal of the asset after deducting the costs of disposal. Fair value means the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

The Group recognizes an impairment loss in profit or loss.

3.2.22 Provision for Decommissioning Costs

The Group records a provision for decommissioning costs whenever it is highly probable that an obligation will arise as a result of a past event and the amount of the obligation can be reliably estimated.

The Group recognizes a provision for decommissioning costs based on an estimate of the eventual costs that relate to the removal of the production facilities and plant and equipment. These costs are included as part of the cost of the oil and gas properties and plant and equipment, and are amortized based on proved reserves using the unit of production method and the straight-line method over the estimated useful lives of the assets, respectively. The estimates of decommissioning costs are determined based on reviews and estimates by the Group's engineers and management's judgment.

3.2.23 Employee Benefit Obligations

Employee benefit obligations of the Group are measured and recognized as follows:

- 1. Short-term employee benefits are recognized in profit or loss as expenses when incurred.
- 2. Post-employment benefits defined contribution plans

The Company and its employees have jointly established a provident fund. The fund is monthly contributed by employees and by the Company. The fund's assets are held in a separate trust fund and the Company's contributions are recognized as expenses in profit or loss when incurred.

3. Post-employment benefits - defined benefit plans

The obligation under the defined benefit plan is determined based on actuarial techniques, using the projected unit credit method, in order to determine present value of the obligation and be recognized as a liability in the statements of financial position. Current service cost, past service cost, net interest on the net defined benefit liability are recognized as expenses in profit or loss. Remeasurements of the net defined benefit liability or asset, including actuarial gains and losses are recognized in other comprehensive income and accumulated amounts are recognized as retained earnings in equity.

4. Other long-term employment benefits

The obligation under the defined benefit plan is determined based on actuarial techniques, using the projected unit credit method, in order to determine present value of the obligation and be recognized as a liability in the statements of financial position. Current service cost, past service cost, net interest on the net defined benefit liability are recognized as expenses in profit or loss. Remeasurements of the net other long-term benefit liability or asset, including actuarial gains and losses are recognized in profit or loss immediately.

- 5. Termination benefits are recognized as a liability or an expense when, and only when, the Company is demonstrably committed to either:
 - Terminate the employment of an employee or a group of employees before the normal retirement date; or
 - Provide termination benefits as a result of an offer made in order to encourage voluntary redundancy.

3.2.24 Revenue Recognition

The Group recognizes revenue from sales upon the delivery of products or when the significant risks and rewards of ownership are transferred to the customers. Revenue from services is recognized over the period in which the services are rendered. These revenues are net of trade discounts.

Other revenue is recognized on the following basis:

Interest income- Time proportion basis using the effective yields of interest bearing assetsRoyalty income- Accrual basis in accordance with the substance of the relevant agreementsDividend income- When the right to receive the dividend is established.

Loyalty programmes

The Group has a customer loyalty programme whereby customers are awarded credits (Points) entitling them to the right to purchase products from the Group at a discount or qualify for a free gift. The fair value of the consideration received or receivable in respect of the initial sale is allocated between the Points and the other components of the sale. The amount allocated to the Points is estimated by reference to the fair value of the right to purchase products at a discount or fair value of the free gift. The fair value is estimated based on the amount of the discount adjusted to take into account the expected forfeiture rate. Such amount is deferred and recognised as revenue only when the Points are redeemed and the Group has fulfilled its obligations to supply the products.

The amount of revenue recognised in those circumstances is based on the number of Points that have been redeemed in exchange for discounted products, relative to the total number of Points that is expected to be redeemed. In addition, deferred revenue is also released to profit or loss when it is no longer considered probable that the Points will be redeemed.

Revenue from sources other than those mentioned above is recognized using the accrual basis.

3.2.25 Government Grants

Government grants, including non-monetary grants, are recognized where there is reasonable assurance that the recipient will comply with all attached conditions and that the grant will be received. The Group recognizes the grants as income on a systematic basis over the periods for which the costs that the government grants are compensating. In adopting this standard, the Group recognizes the grants as a part of income in profit or loss.

3.2.26 Earnings per Share

Basic earnings per share is calculated by adjusting the profit attributable to owners of the parent with interests for subordinated capital debentures net of taxes related to such debentures and dividing the adjusted profit by the weighted average number of ordinary shares held by third parties during the year.

3.2.27 Financial Instruments

Financial assets in the statements of financial position include cash and cash equivalents, current investments, trade accounts receivable, other accounts receivable, short-term loans, available-for-sale investments, other long-term investments, long-term loans, and derivative assets. Financial liabilities in the statements of financial position include bank overdrafts and short-term loans from financial institutions, trade accounts payable, other accounts payable, short-term loans, long-term loans, and derivative liabilities. The particular recognition methods adopted are disclosed in the individual policy statements associated with each item.

The Group uses financial instruments to reduce its risk exposure associated with fluctuations in foreign currency exchange rates, interest rates as well as oil and product market prices. These instruments primarily comprise:

Forward Foreign Exchange Contracts

Forward foreign exchange contracts protect the Group from fluctuations in exchange rates by establishing the rates at which foreign currency assets will be realized or foreign currency liabilities will be settled. Forward foreign exchange contracts are recognized in the financial statements at inception. The premium or discount on the establishment of each agreement is amortized over the contract period.

Cross-currency and Interest Rate Swap Contracts

Cross-currency and interest rate swap contracts protect the Group from fluctuations in exchange rates and interest rates. Foreign currency financial assets and liabilities as at the statements of financial position date are protected by cross-currency contracts. The Group recognizes the total amount of interest received from/paid to the counterparties, according to derivatives under cross-currency and interest rate swap contracts in finance costs using the accrual basis and recognizes derivative assets/liabilities of cross-currency and interest rate swap contracts at fair value at the end of reporting period, in the statements of financial position. The Group recognizes movements in the fair value of derivatives in profit or loss.

Oil and Products Hedging Contract

The hedging contracts of oil and product prices aim to reduce the risk exposure associated with fluctuations in the global oil and product market prices in accordance with its purchase and sale agreements by determining its future prices. Gains or losses arising from these contracts are recorded in profit or loss at the maturity date of the contracts.

The risk management policy is described in Note 40.

3.2.27 Financial Instruments (Continued)

Hedge Accounting

The Group considers hedge accounting criteria as follows:

For fair value hedges, a change in fair value of the hedging instruments and a change in fair value of the hedged items attributable to the risk being hedged are both recognized in profit or loss.

For cash flow hedges, a change in fair value of the effective portion of the hedging instrument is recognized in other comprehensive income, while a change in fair value of the ineffective portion of the hedging instruments is recognized in profit or loss.

3.2.28 Fair Value Measurement

The Group has measured fair value and disclosed the information relating to fair value measurement in accordance with Thai Financial Reporting Standard No. 13 (revised 2015) "Fair Value Measurement". The guidance under this standard will be applied when the Group requires to measure any assets and liabilities at fair value under relevant standards including of disclosures related with such fair value measurement.

The Group uses the market approach to measure their assets and liabilities that are required to be measured at fair value by relevant financial reporting standards, except that the cost approach or income approach is used when there is no active market or a quoted market price is not available.

Fair Value Hierarchy

In applying the above-mentioned valuation techniques, the Group endeavors to use relevant observable inputs as much as possible by determining a fair value hierarchy that categorizes inputs into three levels as follows:

- Level 1 Use of quoted market prices in an observable active market for such assets or liabilities
- Level 2 Use of other observable inputs for such assets or liabilities, whether directly or indirectly
- Level 3 Used of unobservable inputs for such assets or liabilities such as the Group's estimates of future cash flows

3.2.29 Use of Estimates and Significant Assumptions

The preparation of financial statements in conformity with Thai Financial Reporting Standards requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, income and expenses.

Estimates and underlying assumptions used in the preparation of financial statements are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimates are revised and in any future periods affected.

Information about significant assumptions and the sources of contingent estimates that might impact on the carrying amounts of assets and liabilities presented in the financial statements are as follows:

Provisions

The Group recognizes a provision in the statements of financial position if, as a result of a past event, the Group has a present obligation that can be estimated reliably and it is probable that an outflow of economic benefits will be required to settle the obligation.

The Group records provisions for decommissioning costs when it is highly probable that a commitment will arise as a result of past circumstances and the amount can be estimated reliably. The Group recognizes the provisions for decommissioning costs based on estimated amount of decommissioning of completed construction that is ready for its intended use. These costs are included as part of assets and are amortized using the units of production method based on estimated proved reserves and the straight-line method over the estimated useful lives of the assets. The provision for decommissioning costs is determined based on reviews and estimates by the Group's engineers together with the management's judgment.

Provisions depend on various current circumstances such as laws and regulations, technologies and market prices. Therefore, the actual result is likely to be different from estimates and assumptions.

Income Tax

The Group is responsible for the payment of tax in various countries. When income tax payable is estimated, the Group uses significant judgment due to the numerous transactions and calculations arising from its operations.

The Group recognizes income tax payable based on estimated incremental tax payments. The difference between the actual tax paid and the estimate will affect income tax and deferred tax in the period the difference occurs.

A deferred tax asset will be recognized when it is highly probable that the Group will have sufficient net income against which to utilize the temporary difference. Assumptions related to future taxable income are uncertain and may change affecting the recognition of deferred tax assets.

3.2.29 Use of Estimates and Significant Assumptions (Continued)

Estimates of Petroleum Reserves

Petroleum reserves are of fundamental importance when assessing investments in various exploration projects and petroleum production businesses, including impairment testing. Changes in proved reserves will affect the present value of net cash flows and depreciation expenses which are calculated using the unit of production method.

The proved reserves are the volume of commercial petroleum production as of a certain date with a high probability of achievement under current economic conditions and production methods, as well as government's rules and regulations. The proved reserves will be checked and assessed annually by the Group's geologists and reservoir engineers.

Exploration Costs

The petroleum exploration and production businesses capitalize drilling costs as assets. When they are over 12 months old, they are amortized as expenses in profit or loss except where there is (1) a discovery of proved reserves, or (2) a discovery of commercially adequate reserves whilst having future exploration and assessment plans. The decision to amortize drilling petroleum costs recorded as assets over 12 months should be made using the assumptions under current circumstances. In case those assumptions change in subsequent accounting periods, the petroleum drilling costs that are capitalized as assets will be written off as expenses in that accounting period.

Impairment of Assets

The Group considers recording an allowance for impairment of assets when an event or a circumstance indicates that the carrying amount of an asset is higher than its recoverable amount, which is the higher of the anticipated discounted cash flows from the continuing use of the asset or the fair value of the asset less any costs of disposal. As a result, the carrying amount of an asset is written down immediately to its recoverable amount. The decrease is recorded in profit or loss. Thus, the loss on impairment of assets excluding goodwill recognized in the prior period will be reversed if the estimates for indicated recoverable amount changes.

The Group's estimate of the expected amount of future petroleum production in exploration and production business is a key factor in impairment tests. The Group believes that these are the most reasonable indicators for estimating future cash flows. The future petroleum production comprises proved reserves, including expected proved reserves.

The estimation of discounted future cash flows depends on various factors such as the expected amount of future production, future selling prices, demand and supply in the market, risks and gross margins. The discounted rates used in the calculation of present value of future cash flows depend on the cost of capital of the asset unit.

3.2.30 Capital Risk Management

The capital management objective of the Group is to create returns for shareholders and other stakeholders whilst maintaining a reasonable capital structure to decrease the cost of capital.

3.2.31 Operating Segment

The operating segment information is reported by business segments and based on the internal management reports that are received and regularly reviewed by the Chief Operating Decision Maker (CODM) for allocating resources to the segments and assessing its performance.

4. Cash and Cash Equivalents

Cash and cash equivalents as at December 31, 2016 and 2015 are as follows:

			Unit: Million Baht		
	Consolidated financial statements		Separate financial statements		
	2016 2015		2016	2015	
Cash on hand	202.76	136.42	47.59	51.60	
Call deposits held at banks	106,286.14	129,806.00	37,489.76	38,762.90	
Fixed deposits	79,397.13	87,770.82	17,064.79	8,738.15	
Treasury bills	16,583.42	774.47	-	499.46	
Promissory notes	4,691.57	1,782.28	-	-	
Bank of Thailand bonds	8,046.15	19,472.47	8,046.15	19,472.47	
Restricted bank cash within 3 months	359.24	235.49	-	-	
Total	215,566.41	239,977.95	62,648.29	67,524.58	

Call deposits held at banks, fixed deposits, treasury bills, promissory notes, Bank of Thailand bonds, and restricted cash within 3 months, as at December 31, 2016 bear the interest at rates ranging from 0.12% - 13.05% per annum (December 31, 2015: interest rates range from 0.01% - 13.00% per annum).

5. Current Investments

Current investments as at December 31, 2016 and 2015 are as follows:

				Unit: Million Baht	
	Consolidated financial statements			Separate financial statements	
	2016	2015	2016	2015	
Fixed deposits	150,351.08	100,714.69	36,938.69	34,908.22	
Promissory notes	3,486.66	5,785.09	-	-	
Bonds	1,044.44	149.88	3,047.45	-	
Other investments	21,931.45	97.75	19,206.41	-	
Total	176,813.63	106,747.41	59,192.55	34,908.22	

Current investments as at December 31, 2016 bear the interest at rates ranging from 1.00% to 2.12% per annum (December 31, 2015: interest rates range from 0.78% to 3.00% per annum).

6. Trade Accounts Receivable

Trade accounts receivable as at December 31, 2016 and 2015 are as follows:

			Unit: Million Baht		
	Consolidated financial statements		Separate financial statements		
	2016 2015		2016	2015	
Trade accounts receivable - others	140,502.28	137,721.74	71,335.20	76,382.53	
Less Allowance for doubtful accounts	(3,409.99)	(3,499.35)	(2,076.63)	(2,135.07)	
Trade accounts receivable - others - net	137,092.29	134,222.39	69,258.57	74,247.46	
Trade accounts receivable -					
related parties - net (Note 9.1)	6,098.77	7,756.39	55,303.90	50,988.33	
Total	143,191.06	141,978.78	124,562.47	125,235.79	

6. Trade Accounts Receivable (Continued)

Aging analysis is as follows:

				Unit: Million Baht
	Consolidated financial statements		Separate financial statements	
	2016	2016 2015		2015
Within credit terms	138,347.50	136,308.90	122,382.46	121,407.63
Overdue				
- Within 3 months	3,618.05	4,425.61	1,297.60	2,698.32
- Over 3 - 6 months	442.28	850.05	299.41	729.97
- Over 6 - 12 months	746.85	352.80	627.93	322.60
- Over 12 months	3,702.97	3,829.56	2,288.30	2,501.13
	146,857.65	145,766.92	126,895.70	127,659.65
Less Allowance for doubtful accounts	(3,666.59)	(3,788.14)	(2,333.23)	(2,423.86)
Total	143,191.06	141,978.78	124,562.47	125,235.79

Trade accounts receivable - others as at December 31, 2016 include receivables from government agencies and state enterprises in the consolidated financial statements amounting to Baht 11,589.18 million (December 31, 2015: Baht 14,477.70 million), and in the separate financial statements amounting to Baht 10,927.55 million (December 31, 2015: Baht 14,214.00 million).

7. Other Accounts Receivable

Other accounts receivable as at December 31, 2016 and 2015 are as follows:

	Consolidated financial statements		Sepa financial s	
	2016	2015	2016	2015
Other accounts receivable	13,181.35	26,083.41	3,189.74	7,267.29
Less Allowance for doubtful accounts	(319.10)	(184.92)	(252.47)	(247.47)
Other accounts receivable	12,862.25	25,898.49	2,937.27	7,019.82
Refund receivable from the Oil				
Stabilization Fund	6,081.06	5,635.51	5,916.93	5,471.65
Advances	21,977.76	18,331.61	415.44	498.03
Other accounts receivable - others - net	40,921.07	49,865.61	9,269.64	12,989.50
Other accounts receivable -				
related parties - net (Note 9.2)	1,786.77	3,003.80	1,587.97	2,569.71
Advances - related parties (Note 9.2)	516.11	635.86	372.21	575.30
Total	43,223.95	53,505.27	11,229.82	16,134.51

The refund receivable from the Oil Stabilization Fund mostly comprises compensation for locally manufactured oil and liquefied petroleum gas (LPG), or imported LPG for local uses, as well as compensation for Natural Gas for Vehicles (NGV) prices. The compensation rates are determined by the Committee of Energy Policy Administration.

8. Loans

8.1 Short-term loans as at December 31, 2016 and 2015 are as follows:

				Unit: Million Baht
	Consolidated financial statements			arate tatements
	2016	2016 2015		2015
Current portion of financial lease				
receivable - others	436.71	532.56	-	-
Current portion of financial lease				
receivable - related parties (Note 9.2)	3.66	3.53	-	-
Short-term loans - related parties - net				
(Note 9.2)	90.00	438.89	8,160.73	6,398.23
Total	530.37	974.98	8,160.73	6,398.23

8.2 Long-term loans as at December 31, 2016 and 2015 are as follows:

	Consolidated financial statements		Unit: Million Baht Separate financial statements	
		tatements		
	2016	2015	2016	2015
Long-term financial lease receivable -				
others	5,959.37	6,396.08	-	-
Long-term financial lease receivable -				
related parties (Note 9.3)	60.47	64.13	-	-
Long-term loans - others	734.69	741.53	-	-
Long-term loans - related parties - net				
(Note 9.3)	8,263.29	3,343.97	27,582.21	33,113.58
Total	15,017.82	10,545.71	27,582.21	33,113.58

9. Related Party Transactions

Significant transactions carried out with related parties are as follows:

9.1 Trade accounts receivable – related parties as at December 31, 2016 and 2015

				Unit: Million Baht	
	Consolidated financial statements			Separate financial statements	
	2016	2015	2016	2015	
Subsidiaries	-	-	51,470.79	45,266.64	
Joint ventures	2,927.52	3,869.48	1,390.73	2,697.65	
Associates	1,149.42	1,318.30	420.56	466.00	
Other related parties	2,278.43	2,857.40	2,278.42	2,846.83	
Total	6,355.37	8,045.18	55,560.50	51,277.12	
Less Allowance for doubtful accounts	(256.60)	(288.79)	(256.60)	(288.79)	
Trade accounts receivable -					
related parties - net (Note 6)	6,098.77	7,756.39	55,303.90	50,988.33	

Aging analysis is as follows:

Unit: Million Baht

	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
Within credit terms	6,064.67	7,362.06	55,134.14	50,345.70
Overdue				
- Within 3 months	15.72	380.69	154.27	641.21
- Over 3 - 6 months	1.95	13.40	-	1.21
- Over 6 - 12 months	0.93	57.27	-	57.27
- Over 12 months	272.10	231.76	272.09	231.73
Total	6,355.37	8,045.18	55,560.50	51,277.12
Less Allowance for doubtful accounts	(256.60)	(288.79)	(256.60)	(288.79)
Trade accounts receivable -				
related parties - net	6,098.77	7,756.39	55,303.90	50,988.33

9.2 Other accounts receivable, advances, current portion of financial lease receivable, and short–term loans – related parties as at December 31, 2016 and 2015

	Consolidated financial statements		Unit: Million Baht Separate financial statements	
	2016	2015	2016	2015
Other accounts receivable				
Subsidiaries	-	-	5,136.41	3,257.25
Joint ventures	177.05	132.45	26.26	25.75
Associates	212.86	1,476.69	6.37	1,295.94
Other related parties	1,505.30	1,459.65	-	2.59
	1,895.21	3,068.79	5,169.04	4,581.53
Less Allowance for doubtful accounts	(108.44)	(64.99)	(3,581.07)	(2,011.82)
Total (Note 7)	1,786.77	3,003.80	1,587.97	2,569.71
Advances				
Subsidiaries	-	-	62.46	64.33
Joint ventures	11.49	60.00	-	60.00
Other related parties	504.62	575.86	309.75	450.97
Total (Note 7)	516.11	635.86	372.21	575.30
Current portion of financial lease				
receivable				
Joint ventures (Note 8.1)	3.66	3.53	-	-
Short-term loans				
Subsidiaries	-	-	8,160.73	6,398.23
Joint ventures	-	348.89	-	_
Associates	90.00	90.00	-	_
Total (Note 8.1)	90.00	438.89	8,160.73	6,398.23

9.2 Other accounts receivable, advances, current portion of financial lease receivable, and short-term loans – related parties as at December 31, 2016 and 2015 (Continued)

Movements in short-term loans - related parties are as follows:

				Unit: Million Baht
	Consolidated financial statements		Separate financial statements	
	2016	2016 2015		2015
Balance as at January 1	438.89	313.29	861.84	4,331.29
- Payment for loans granted	65.69	99.10	318.87	388.04
- Receipt from loans granted	-	-	(235.37)	(3,684.97)
- Loss on exchange rate	-	-	(3.50)	(172.52)
- Currency translation differences	(1.49)	26.50	-	-
Balance as at December 31	503.09	438.89	941.84	861.84
Add Current portion of long-term loans				
(Note 9.3)	-	-	7,218.89	5,536.39
Less Allowance for doubtful accounts	(413.09)	-	-	-
Balance as at December 31 - net	90.00	438.89	8,160.73	6,398.23

Short-term loans - related parties as at December 31, 2016 in the consolidated financial statements bear the interest at rates ranging from 0.25% - 4.20% per annum (December 31, 2015: interest rates range from 3.50% - 4.20% per annum), and in the separate financial statements bear the interest at rates ranging from 2.53% - 3.27% per annum (December 31, 2015: interest rates range from 1.75% - 2.58% per annum).

9.3 Other accounts receivable, advances, Long-term financial lease receivable, long-term financial lease receivable, and long-term loans – related parties as at December 31, 2016 and 2015

	Consolidated financial statements		Unit: Million Baht Separate financial statements	
	2016	2015	2016	2015
Long-term other accounts receivable				
Subsidiaries	-	-	2,414.67	3,538.31
Joint ventures	338.01	186.64	338.01	186.64
Associates	66.42	-	-	-
Total	404.43	186.64	2,752.68	3,724.95
Long-term advances				
Subsidiaries	_	-	271.08	156.19
Total long-term other accounts receivable	404.43	186.64	3,023.76	3,881.14
Long-term financial lease receivable				
Joint ventures (Note 8.2)	60.47	64.13	-	-
Long-term loans				
Subsidiaries	-	-	75,240.86	79,547.08
Joint ventures	5,753.77 _i	3,308.76	5,753.77	3,308.76
Associates	2,509.52	35.21	-	-
Total	8,263.29	3,343.97	80,994.63	82,855.84
Less Allowance for doubtful accounts*	-	-	(53,412.42)	(49,742.26)
Total long-term loan - net (Note 8.2)	8,263.29	3,343.97	27,582.21	33,113.58

* The Company recorded allowance for doubtful accounts as at December 31, 2016 amounting to Baht 53,412.42 million (December 31, 2015: Baht 49,742.26 million) for a long-term loan to a subsidiary. The subsidiary used this loan to invest in its foreign subsidiary and associate; both of which encountered operational problems. The Company therefore recognized allowance for doubtful accounts based on assessment of the recoverable amount of the long-term loan to the subsidiary.

9.3 Other accounts receivable, advances, Long-term financial lease receivable, long-term financial lease receivable, and long-term loans – related parties as at December 31, 2016 and 2015 (Continued)

Details of financial lease receivable - related parties as at December 31, 2016 and 2015 are as follows:

				Unit: Million Baht
	Consolidated financial statements		Sepa financial s	
	2016	2015	2016	2015
Financial lease receivable				
- Within 1 year	6.00	6.00	-	-
- Over 1 year but not over 5 years	24.00	24.00	-	-
- Over 5 years	52.00	58.00	-	-
Future finance income	(17.87)	(20.34)	-	-
Total financial lease receivable	64.13	67.66	-	-

Movements in long-term loans to related parties are as follows:

				Unit: Million Baht
	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
Balance as at January 1	3,343.97	8,618.51	88,392.23	81,221.93
- Payment for loans granted	4,926.65	531.18	6,840.22	21,528.14
- Receipt from loans granted	-	(6,052.44)	(6,477.19)	(19,540.93)
- Gain (loss) on exchange rate	(7.25)	244.42	(541.74)	5,183.09
- Currency translation differences	(0.08)	2.30	-	-
Balance as at December 31	8,263.29	3,343.97	88,213.52	88,392.23
Less Current portion of long-term loans				
(Note 9.2)	-	-	(7,218.89)	(5,536.39)
Less Allowance for doubtful accounts	-	-	(53,412.42)	(49,742.26)
Balance as at December 31 - net	8,263.29	3,343.97	27,582.21	33,113.58

Long-term loans - related parties as at December 31, 2016 in the consolidated financial statements bear the interest rates at 1.00 - 6.56% per annum (December 31, 2015: interest rates is 2.61% per annum), and in the separate financial statements bear the interest at rates ranging from 2.55% - 4.50% per annum (December 31, 2015: interest rates range from 2.08% - 4.50% per annum).

9.4 Trade accounts payable – related parties as at December 31, 2016 and 2015

				Unit: Million Baht	
	Consolidated financial statements			eparate al statements	
	2016	2015	2016	2015	
Subsidiaries	-	-	41,175.35	36,269.51	
Joint ventures	957.78	817.52	292.06	309.23	
Associates	500.03	352.55	446.57	307.59	
Other related parties	1.90	2.62	-	-	
Total	1,459.71	1,172.69	41,913.98	36,886.33	

9.5 Other accounts payable, current portion of financial lease liability, and short-term loans – related parties as at December 31, 2016 and 2015

Unit: Million Baht

	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
Other accounts payable				
Subsidiaries	-	-	4,495.18	4,742.13
Joint ventures	17.85	9.41	3.32	4.14
Associates	21.43	25.43	3.71	3.98
Other related parties	69.39	106.92	44.78	49.70
Total	108.67	141.76	4,546.99	4,799.95
Current portion of financial lease liability Joint venture	437.63	437.63	437.63	437.63
Short-term loans*				
Subsidiaries	-	-	2,117.07	1,864.27

* The Company's liquidity management policies within the Group include the use of the cash pooling method. Inter-company loans were used for short-term financial management of cash surpluses or deficits of each affiliate. Interests on these were calculated by using market interest rates.

9.6 Long-term other accounts payable – related parties as at December 31, 2016 and 2015

				Unit: Million Baht
	Consolidated financial statements		Sepa financial s	
	2016	2015	2016	2015
Subsidiaries	-	-	2,998.80	4,126.56
Joint ventures	9.53	10.25	9.53	10.25
Other related parties	495.51	527.31	495.51	527.31
Total	505.04	537.56	3,503.84	4,664.12

9.7 Long-term financial lease liability – related parties as at December 31, 2016 and 2015

	Consol financial s		Sepa financial s	
	2016	2015	2016	2015
Joint venture	5,155.97	5,635.57	5,155.97	5,635.57

Details of financial lease liability - related parties as at December 31, 2016 and 2015 are as follows:

				Unit: Million Baht	
	Consolidated financial statements			Separate financial statements	
	2016	2015	2016	2015	
Financial lease liability					
- Within 1 year	500.65	505.53	500.65	505.53	
- Over 1 year but not over 5 years	2,003.98	2,017.97	2,003.98	2,017.97	
- Over 5 years	3,507.31	4,035.94	3,507.31	4,035.94	
Future finance charges	(418.34)	(486.24)	(418.34)	(486.24)	
Total financial lease liability	5,593.60	6,073.20	5,593.60	6,073.20	

9.8 Revenue and expense transactions carried out with related parties

For the years ended December 31, 2016 and 2015

	Consolidated financial statements		Unit: Million Baht Separate financial statements	
	2016	2015	2016	2015
Revenues				
Sales and service income				
Subsidiaries	-	-	495,171.23	577,583.22
Joint ventures	24,589.04	22,872.06	12,997.86	12,347.93
Associates	9,029.29	79,588.23	1,821.41	63,353.10
Other related parties	14,695.83	17,663.87	14,688.11	17,523.17
Interest income				
Subsidiaries	-	-	2,647.99	2,648.65
Joint ventures	175.29	81.98	151.36	81.12
Associates	70.22	26.16	-	22.38
Dividends income				
Subsidiaries	-	-	20,136.51	17,553.62
Joint ventures	-	-	3,346.33	3,719.39
Associates	-	-	1,095.44	3,769.56
Other related parties	544.11	378.00	110.00	90.00
Other income				
Subsidiaries	-	-	4,608.96	4,823.62
Joint ventures	165.08	274.77	98.96	101.57
Associates	38.24	9,598.15	23.52	9,498.00
Other related parties	1,213.74	4,622.89	44.42	2,320.02

9.8 Revenue and expense transactions carried out with related parties (Continued)

For the years ended December 31, 2016 and 2015

	Consolidated financial statements		Unit: Million Baht Separate financial statements	
	2016	2015	2016	2015
Expenses				
Cost of goods purchased and services				
Subsidiaries	-	-	455,367.00	495,551.64
Joint ventures	9,675.98	8,713.35	1,693.59	1,883.05
Associates	4,295.40	70,575.44	3,781.34	59,832.22
Other related parties	2,078.62	2,607.48	404.81	477.13
Interest expenses				
Subsidiaries	-	-	31.33	42.11
Joint ventures	67.90	72.71	67.90	72.71
Other expenses				
Subsidiaries	-	-	9,551.25	19,513.17
Joint ventures	947.00	1,510.80	3.07	31.00
Associates	74.77	257.22	4.95	92.68
Other related parties	355.77	409.71	169.81	179.78

The aforementioned related party transactions exclude transactions carried out with government agencies and state enterprises.

Stipulation prices between the Company and its related parties are based on normal prices for the same types of business transactions carried out with non-related parties. Goods purchased from subsidiaries are charged at the normal prices determined by the subsidiaries with reference to global market prices.

9.9 Details of commitments to subsidiaries, joint ventures, associates and other related parties are stated in Note 45.1.

9.10 Crude oil and petroleum product purchase and sale transactions carried out with related parties without physical delivery, with the objective of maintaining crude oil and petroleum product reserves, were reversed in the financial statements.

Detail of these transactions for the years ended December 31, 2016 and 2015 are as follow:

				Unit: Million Baht
	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
Sales				
Subsidiaries	-	-	1,824.11	6,061.69
Associates	-	2,176.89	-	2,176.89
Purchases				
Subsidiaries	-	-	1,898.75	6,285.76
Associates	-	2,176.89	-	2,176.89

9.11 Executive remunerations

Detail of remunerations for the years ended December 31, 2016 and 2015 are as follows:

				Unit: Million Baht
	Consolidated financial statements		Sepa financial s	
	2016	2015	2016	2015
Directors remuneration				
Meeting remuneration and bonuses	318.02	271.65	43.24	35.43
Managements remuneration Salaries, bonuses, and other				
employee benefits	914.90	989.80	68.64	79.18
Post-employment benefits	9.68	17.79	1.01	2.26
Total	1,242.60	1,279.24	112.89	116.87

Managements are those persons who have authority and responsibility for planning, directing and controlling the activities of an entity, directly or indirectly.

10. Inventories

Inventories as at December 31, 2016 and 2015 are as follows:

				Unit: Million Baht
	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
Oil products	84,479.18	58,281.44	21,096.12	15,048.23
Gas products	1,513.34	2,328.44	1,510.07	2,322.19
Petrochemicals products	28,395.53	23,566.16	-	-
Others	3,289.89	3,819.86	689.88	650.32
	117,677.94	87,995.90	23,296.07	18,020.74
Less Allowance for decline in value of				
inventories and obsolescence	(794.40)	(3,910.64)	(308.09)	(853.58)
Total	116,883.54	84,085.26	22,987.98	17,167.16

The Fuel Oil Trading Act B.E. 2543 was amended by The Fuel Oil Trading Act (No. 2) B.E. 2550 in accordance with Notification of the Department of Energy Business "Determination of Types, Rates, Criteria, Methods, and Conditions for Calculation of Oil Reserves B.E. 2558". This Act prescribes that oil traders under section 7 must reserve crude oil and petroleum products at rates ranging from 1% - 20% of the total production output or imported volume. Inventories - legal reserves as at December 31, 2016 in the consolidated financial statements amounting to Baht 22,900.03 million (December 31, 2015: Baht 16,069.90 million), and in the separate financial statements amounting to Baht 5,808.71 million (December 31, 2015: Baht 3,992.17 million). These amounts were net of allowance for net realizable value.

In 2016, the Group wrote down inventories to their net realizable values, and recorded expenses of Baht (3,116.24) million in the consolidated financial statements (2015: Baht 6,752.83 million) and Baht (545.49) million in the separate financial statements (2015: Baht (736.12) million). In addition, the Group recognized allowance for obsolescence of inventories in the consolidated financial statements amounting to Baht 17.02 million (2015: Baht 0.46 million) and the separate financial statements amounting to Baht 0.46 million).

11. Materials and Supplies

Materials and supplies as at December 31, 2016 and 2015 are as follows:

				Unit: Million Baht
	Consolidated financial statements		Separate financial statements	
	2016 2015		2016	2015
Spare parts, equipment and others	31,894.65	32,476.89	5,682.33	4,843.08
Less Allowance for obsolescence	(868.38)	(833.06)	(20.55)	(13.00)
Total	31,026.27	31,643.83	5,661.78	4,830.08

12. Divestment and Discontinued Operations

On August 17, 2016, PTTEP Offshore Investment Company Limited (PTTEPO), a subsidiary of the Group, has entered into the Sales and Purchase Agreement (SPA) to divest PTTEP Oman Company Limited (PTTEP OM), which held 100% participating interests in the Oman 44 project and sell to ARA Petroleum LLC (ARA). The agreement will become effective upon the fulfillment of all the terms and conditions as prescribed in the SPA.

On December 28, 2016, PTTEPO had fulfilled all the terms and conditions as prescribed in the SPA and the government of Oman had approved the transaction, therefore ARA became the owner of 100% participating interests in Oman 44 project and PTTEPO received cash of US Dollar 16 million (Baht 564 million) and will gradually receive the remaining cash of US Dollar 7 million (Baht 242 million under installment in accordance with the SPA within 18 months from the contract signing date.

The Group recognized profit from the divestment of US Dollar 20 million (Baht 704 million) as part of profit (loss) for the year from discontinued operations in the consolidated financial statements for the year ended December 31, 2016.

As a result of divestment of PTTEP OM, the relevant part of petroleum exploration and production business is classified as discontinued segment. The Company separately presented the operating results of the discontinued segment from normal operating profits and presented it as profit (loss) from discontinued operations, net of tax in the consolidated statement of income and other comprehensive income (loss) from discontinued operations, net of tax in the consolidated statement of comprehensive income. The Group has represented transactions of this segment for the year 2015 to compare with the current year financial statements.

Operating results of the discontinued operations in the consolidated financial information for the years ended December 31, 2016 and 2015 are as follows:

Unit: Million Baht

Consolidated financial statements

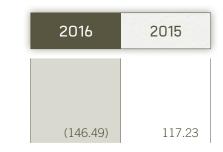
	2016	2015
The consolidated statements of income		
Revenues	1,136.50	1,359.86
Expenses	(923.22)	(2,694.35)
Profit (loss) before income taxes from discontinued operations	213.28	(1,334.49)
Income taxes	(44.83)	216.32
Profit (loss) from discontinued operations	168.45	(1,118.17)
Gain from divestment of investment	703.62	-
Total net profit (loss) from discontinued operations	872.07	(1,118.17)

12. Divestment and Discontinued Operations (Continued)

	Consol financial s	Unit: Baht lidated tatements
	2016	2015
Basic earnings (loss) per share from discontinued operations	0.20	(0.25)

Unit: Million Baht

Consolidated financial statements



The consolidated statements of comprehensive income for the year Item that may be reclassified to profit or loss in subsequent periods Currency translation differences

Detail of cash flows for years ended December 31, 2016 and 2015 are as follows:

Unit: Million Baht Consolidated financial statements 2016 2015 Cash flow provided by (used in) discontinued operations Net cash provided by (used in) operating activities 29.75 (213.15) Net cash used in investing activities (0.21)(339.86) Net cash provided by (used in) financing activities _ Net cash provided by (used in) discontinued operations 29.54 (553.01)

13. Investments in Subsidiaries, Joint Ventures and Associates

13.1 Details of subsidiaries, joint ventures and associates of the Company

	Country of		Shareholding (%)	
Company	Incorporation	Business	2016	2015
Subsidiaries PTT Exploration and Production	Thailand	Petroleum exploration	65.29	65.29
Public Co., Ltd. (PTTEP) PTT LNG Co., Ltd. (PTTLNG)	Thailand	and production Natural gas	100.00	100.00
PTT Natural Gas Distribution Co., Ltd. (PTTNGD)	Thailand	Natural gas	58.00	58.00
Energy Complex Co., Ltd. (EnCo) (The Group held 100% shareholding)	Thailand	Real estate development for rent	50.00	50.00
PTT Energy Solutions Co., Ltd. (PTTES) (The Group held 100% shareholding)	Thailand	Technical and operational services	40.00	40.00
PTT Maintenance & Engineering Co., Ltd. (PTTME) (The Group held 100% shareholding)	Thailand	Factory maintenance and engineering services	40.00	40.00
Global Power Synergy Public Co., Ltd. (GPSC) (The Group held 75% shareholding)	Thailand	Generation and supply of electricity, steam and water for industries	22.58	22.58
PTT (Cambodia) Limited (PTTCL)	Cambodia	Oil marketing	100.00	100.00
PTT Oil Myanmar Co., Ltd. (PTTOM)	Myanmar	Business services	100.00	100.00
PTT Oil and Retail Business Co., Ltd. (PTTOR) (Former: PTT Retail Business Co., Ltd. (PTTRB))	Thailand	Management services and oil marketing	100.00	100.00

	Country of		Shareholding (%)	
Company	Incorporation	Business	2016	2015
Subsidiaries (Continued) Subic Bay Energy Co., Ltd. (SBECL)	Cayman Islands	Oil marketing	-	100.00
PTT Tank Terminal Co., Ltd. (PTT TANK)	Thailand	Terminal and warehouse	100.00	100.00
Thai Lube Blending Co., Ltd. (TLBC) (The Group held 100% shareholding)	Thailand	Blending and bottling of lube oil	48.95	48.95
PTT International Trading Pte. Ltd. (PTTT)	Singapore	International oil trading	100.00	100.00
PTT International Trading London Limited (PTTT LDN)	England	International oil trading	100.00	-
PTT Polymer Logistics Co., Ltd. (PTTPL) (The Group held 100% shareholding)	Thailand	Logistics services	50.00	50.00
PTT PMMA Co., Ltd. (PTTPMMA)	Thailand	Manufacturing and distributing of Poly Methyl Methacrylate	100.00	100.00
PTT Polymer Marketing Co., Ltd. (PTTPM) (The Group held 100% shareholding)	Thailand	Petrochemicals marketing	50.00	50.00
PTT Global Chemical Public Co., Ltd. (PTTGC)	Thailand	Petrochemicals and refining	49.42	49.34

13.1 Details of subsidiaries, joint ventures and associates of the Company (Continued)

13.1 Details of subsidiaries, joint ventures and associates of the Company (Continued)

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiaries (Continued)				
Thai Oil Public Co., Ltd. (TOP) (The Group held 49.93% shareholding)	Thailand	Oil refining	49.10	49.10
IRPC Public Co., Ltd. (IRPC)	Thailand	Petrochemicals and refining	38.51	38.51
Thai Oil Power Co., Ltd. (TP) (The Group held 100% shareholding)	Thailand	Generation and supply of electricity and steam	26.00	26.00
PTT Energy Resources Co., Ltd. (PTTER)	Thailand	International investment	100.00	100.00
PTT Green Energy Pte. Ltd. (PTTGE)	Singapore	Investing in palm oil business	100.00	100.00
PTT Regional Treasury Center Pte. Ltd. (PTTRTC)	Singapore	Treasury services	100.00	100.00
Business Services Alliance Co., Ltd. (BSA)	Thailand	Management services	100.00	100.00
PTT ICT Solutions Co., Ltd. (PTTICT) (The Group held 100% shareholding)	Thailand	Information technology and communication services	20.00	20.00

	Country of		Shareholding (%)	
Company	Incorporation	Business	2016	2015
<mark>Joint Ventures</mark> Trans Thai-Malaysia (Thailand) Co., Ltd. (TTM(T))	Thailand	Natural gas	50.00	50.00
Trans Thai-Malaysia (Malaysia) Sdn.Bhd. (TTM(M))	Malaysia	Natural gas	50.00	50.00
District Cooling System and Power Plant Co., Ltd. (DCAP)	Thailand	Generation and supply of electricity and chilled water	35.00	35.00
PTT MCC Biochem Co., Ltd. (PTTMCC)	Thailand	Petrochemicals	50.00	50.00
PTT Asahi Chemicals Co., Ltd. (PTTAC)	Thailand	Petrochemicals	50.00	48.50
HMC Polymers Co., Ltd. (HMC)	Thailand	Petrochemicals	41.44	41.44
Associates Thai Petroleum Pipeline Co., Ltd. (THAPPLINE) (The Group held 49.59% shareholding)	Thailand	Oil transmission pipelines	40.40	40.40
KELOIL-PTT LPG Sdn.Bhd. (KPL)	Malaysia	Bottling and sale of LPG	40.00	40.00
Petro Asia (Thailand) Co., Ltd. (PAT)	Thailand	Oil marketing	35.00	35.00

13.1 Details of subsidiaries, joint ventures and associates of the Company (Continued)

13.2 Details of joint ventures and associates of subsidiaries

	Country of		Shareholding (%)	
Company	Incorporation	Business	2016	2015
Joint Ventures PTTEP Group				
Erawan 2 FSO Bahamas Limited (Erawan 2)	Bahamas	FSO rental service	13.11	13.11
GPSC Group				
Thai Solar Renewable Co., Ltd. (TSR)	Thailand	Investing in other companies	40.00	40.00
Nam Lik1 Power Company Limited (NL1PC)	Laos	Generation and supply of electricity	40.00	40.00
Nava Nakorn Electricity Generating Co., Ltd. (NNEG)	Thailand	Generation and supply of electricity	30.00	30.00
PTTOR Group				
OGP Energy Solutions Company Limited (OGPS)	Thailand	Supply of ready-to-use energy	40.00	40.00
PTTGC Group				
Thai Ethoxylate Co., Ltd. (TEX)	Thailand	Manufacturing and distributing petrochemicals products	50.00	50.00
Emery Oleochemical (M) Sdn.Bhd. (EOM)	Malaysia	Manufacturing and distributing biochemicals products	50.00	50.00
Emery Specialty Chemical Sdn.Bhd. (ESC)	Malaysia	Manufacturing and distributing chemical specialties	50.00	50.00
NatureWorks LLC (NTR)	United States of America	Manufacturing and distributing bioplastic products	50.00	50.00

	Country of		Shareholding (%)	
Company	Incorporation	Business	2016	2015
Joint Ventures (Continued)				
TOP Group				
TOP-NTL Pte. Ltd. (TOP-NTL)	Singapore	Fund management services	50.00	50.00
TOP-NTL Shipping Trust (TOP-NTL(BT))	Singapore	Investing in other companies	50.00	50.00
TOP-NYK MarineOne Pte. Ltd. (TOP-NYK)	Singapore	Marine transportation services	50.00	50.00
TOP Nautical Star Co., Ltd. (TOP-NS)	Thailand	Storage and marine transportation services	35.00	35.00
IRPC Group				
IRPC PCC Co., Ltd. (IRPC PCC)	Thailand	Supply of petrochemicals	49.99	49.99
PTTER Group				
FEE (Bru) Pte. Ltd. (FEEBRU)	Singapore	Coal mines	35.00	35.00
PTTGE Group				
Chancellor Oil Pte. Ltd. (Chancellor)	Singapore	Investing in other companies	77.56	77.56
Associates				
PTTEP Group PTTEP AP Group's associates*	Australia	Airbase services	50.00	50.00
UAQ Petroleum Limited (UAQ)**	Hong Kong	Petroleum	-	30.00

13.2 Details of joint ventures and associates of subsidiaries (Continued)

* Associates of PTTEP AP Group consist of Mungalalu Truscott Airbase Pty Ltd. and Troughton Island Pty Ltd.

** On October 9, 2016, PTTEP FLNG Holding Company Limited (PTTEP FH) has withdrawn its investment in UAQ Petroleum Limited, which has a joint partnership in the Block Umm Al-Quwain.

13.2 Details of joint ventures and associates of subsidiaries (Continued)

	Country of		Shareho	ding (%)
Company	Incorporation	Business	2016	2015
Associates (Continued)				
GPSC Group				
Bangpa-in Cogeneration Limited (BIC)	Thailand	Generation and supply of electricity and steam	25.00	25.00
Xayaburi Power Company Limited (XPCL)	Laos	Hydroelectric power plant	25.00	25.00
PTTOR Group				
FST Aviation Services Limited (FST)	Hong Kong	Aircraft refuelling services	25.00	25.00
PTTGC Group				
PT Indo Thai Trading (ITT)	Indonesia	Petrochemicals	49.00	49.00
Vinythai Public Co., Ltd. (VNT)	Thailand	Petrochemicals	24.98	24.98
Eastern Fluid Transport Co., Ltd. (EFT)	Thailand	Infrastructure	22.65	22.65
Thai Eastern Topseeds Oil Co., Ltd. (TETSO)	Thailand	Petrochemicals	30.00	-
TOP Group				
T.I.M Ship Management Co., Ltd. (TIM)	Thailand	Marine transportation services	33.33	33.33
Maesod Clean Energy Co., Ltd. (MCE)	Thailand	Manufacturing and distributing of Ethanol	30.00	30.00
Ubon Bio Ethanol Co., Ltd. (UBE)	Thailand	Manufacturing and distributing of Ethanol	21.28	21.28
IRPC Group				
UBE Chemicals (Asia) Public Co., Ltd. (UCHA)	Thailand	Manufacturing and distributing of Petrochemicals	25.00	25.00
PTTER Group				
East Mediterranean Gas Company S.A.E. (EMG)	Egypt	Natural gas transmission pipelines	25.00	25.00

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiaries of PTTEP Group: PTTEP International Limited (PTTEPI)	Thailand	Petroleum	100.00	100.00
PTTEP Offshore Investment Co., Ltd. (PTTEPO)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Southwest Vietnam Co., Ltd. (PTTEP SV)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Kim Long Vietnam Co., Ltd. (PTTEP KV)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Hoang - Long Co., Ltd. (PTTEP HL)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Hoan - Vu Co., Ltd. (PTTEP HV)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Oman Co., Ltd. (PTTEP OM)*	Cayman Islands	Petroleum	-	100.00
PTTEP Algeria Co., Ltd. (PTTEP AG)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Services Limited (PTTEP Services)	Thailand	Human resource support	100.00	100.00
PTTEP Siam Limited (PTTEPS)	Thailand	Petroleum	100.00	100.00
PTTEP Iran Co., Ltd. (PTTEP IR)**	Cayman Islands	Petroleum	-	100.00
PTTEP Holding Co., Ltd. (PTTEPH)	Cayman Islands	Petroleum	100.00	100.00

* The additional information is disclosed in Note 12 Divestment and Discontinued Operations.

** On September 30, 2016, PTTEP IR had received the approval of dissolution of the company from the registrar.

Company	Country of		Shareholding (%)	
	Incorporation	Business	2016	2015
Subsidiaries of PTTEP Group: (Continued) PTTEP Indonesia Co., Ltd. (PTTEP ID)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Africa Investment Limited (PTTEP AI)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Rommana Co., Ltd. (PTTEPR)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Australia Pty Limited (PTTEP AU)	Australia	Petroleum	100.00	100.00
PTTEP South Asia Limited (PTTEP SA)	Cayman Islands	Petroleum	100.00	100.00
PTTEP New Zealand Limited (PTTEP NZ)*	Cayman Islands	Petroleum	-	100.00
PTTEP Semai II Limited (PTTEP SM)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Australia Perth Pty Limited (PTTEP AP)	Australia	Petroleum	100.00	100.00
PTTEP International Holding Co., Ltd. (PTTEP IH)	Cayman Islands	Petroleum	100.00	100.00
PTTEP Southwest Vietnam Pipeline Co., Ltd. (PTTEP SVPC)	Cayman Islands	Gas transmission pipelines	100.00	100.00
PTTEP FLNG Holding Co., Ltd. (PTTEP FH)	Hong Kong	Petroleum	100.00	100.00
JV Shore Base Limited (JV Shore Base)**	Cayman Islands	Petroleum	-	100.00

* On June 30, 2016, PTTEP NZ had received the approval of dissolution of the company from the registrar.

** On June 30, 2016, JV Shore Base had received the approval of dissolution of the company from the registrar.

	Country of		Shareholding (%)		
Company	Incorporation	Business	2016	2015	
Subsidiaries of PTTEP Group: (Continued)					
PTTEP Netherland Holding Limited (PTTEP NL)	Cayman Islands	Petroleum	100.00	100.00	
JV Marine Limited (JV Marine)	Cayman Islands	Petroleum	100.00	100.00	
PTTEP South Mandar Limited (PTTEP SMD)	Cayman Islands	Petroleum	100.00	100.00	
PTTEP South Sageri Limited (PTTEP SS)	Cayman Islands	Petroleum	100.00	100.00	
PTTEP Sadang Limited (PTTEP SD)	Cayman Islands	Petroleum	100.00	100.00	
PTTEP Malunda Limited (PTTEP ML)	Cayman Islands	Petroleum	100.00	100.00	
PTTEP Netherlands Coöperatie U.A. (PTTEP NC)	Netherlands	Petroleum	100.00	100.00	
PTTEP Canada Limited (PTTEP CA)	Canada	Petroleum	100.00	100.00	
PTTEP Canada International Finance Limited (PTTEP CIF)	Canada	Funding services for the Group's business	100.00	100.00	
PTTEP MEA Limited (PTTEP MEA)	Cayman Islands	Petroleum	100.00	100.00	
PTTEP HK Holding Limited (PTTEP HK)	Hong Kong	Petroleum	100.00	100.00	

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiaries of PTTEP Group: (Continued) PTTEP Netherlands Holding Coöperatie U.A. (PTTEP NH)	Netherlands	Petroleum	100.00	100.00
PTTEP Brazil Investment B.V. (PTTEP BI)	Netherlands	Petroleum	100.00	100.00
PTTEP Brazil Investments in Oil and Gas Exploration and Production Limitada (PTTEP BL)	Brazil	Petroleum	100.00	100.00
PTTEP Australia Offshore Pty Limited (PTTEP AO)	Australia	Petroleum	100.00	100.00
PTTEP Australia Browse Basin Pty Limited (PTTEP AB)	Australia	Petroleum	100.00	100.00
PTTEP Australia International Finance Pty Limited (PTTEP AIF)*	Australia	Funding services for the Group's business	100.00	100.00
PTTEP Australasia Pty Limited (PTTEP AA)*	Australia	Petroleum	100.00	100.00
PTTEP Australia Timor Sea Pty Limited (PTTEP AT)	Australia	Petroleum	100.00	100.00
PTTEP Australasia (Finance) Pty Limited (PTTEP AAF)*	Australia	Petroleum	100.00	100.00
PTTEP Australasia (Petroleum) Pty Limited (PTTEP AAP)*	Australia	Petroleum	100.00	100.00
Tullian Pty Limited (PTTEP AAT)*	Australia	Petroleum	100.00	100.00

* On December 19, 2016, PTTEP AIF, PTTEP AA, PTTEP AAF, PTTEP AAP, PTTEP AAT have submitted document for liquidation to the registrar.

Company	Country of		Shareholding (%)	
	Incorporation	Business	2016	2015
Subsidiaries of PTTEP Group: (Continued)				
PTTEP Australasia (Operations) Pty Limited (PTTEP AAO)	Australia	Petroleum	100.00	100.00
PTTEP Australasia (Ashmore Cartier) Pty Limited (PTTEP AAA)	Australia	Petroleum	100.00	100.00
PTTEP Australasia (Staff) Pty Limited (PTTEP AAS)	Australia	Petroleum	100.00	100.00
Cove Energy Limited (Cove)	England	Petroleum	100.00	100.00
Cove Energy Mozambique Rovuma Onshore Limited (CEMROL)	Cyprus	Petroleum	100.00	100.00
Cove Energy East Africa Limited (CEEAL)	Cyprus	Petroleum	100.00	100.00
PTTEP Mozambique Area 1 Limited (PTTEP MZA1) (Former: Cove Energy Mozambique Rovuma Offshore Limited (CEMROFL))	Cyprus	Petroleum	100.00	100.00
Cove Mozambique Terra Limitada (CMTL)*	Mozambique	Petroleum	-	100.00
Cove Mozambique Energia Limitada (CMEL)*	Mozambique	Petroleum	-	100.00
Cove Energy Kenya Limited (CEKL)	Kenya	Petroleum	100.00	100.00
Sinphuhorm Holdings Limited (SHL)	Cayman Islands	Petroleum	100.00	100.00
PTTEP SP Limited (PTTEP SP)	England	Petroleum	100.00	100.00

* On June 6, 2016, CMTL and CMEL had received the approval of dissolution of the company from the Government of Republic of Mozambique.

	Country of		Shareho	hareholding (%)	
Company	Incorporation	Business	2016	2015	
Subsidiaries of PTTEP Group: (Continued)					
PTTEP G7 Limited (PTTEP G7)	Thailand	Petroleum	100.00	100.00	
PTTEP HK Offshore Limited (PTTEP HKO) (Former: PTTEP HK Investment Limited (PTTEP HKI))	Hong Kong	Petroleum	100.00	100.00	
PTTEP Treasury Center Co., Ltd. (PTTEP TC)	Thailand	Treasury center for the Group's business	100.00	100.00	
PTTEP Business Center Co., Ltd. PTTEP BC)	Thailand	Petroleum	100.00	-	
Subsidiary of PTTNGD Group: Amata Natural Gas Distribution Co., Ltd. (AMATA NGD)	Thailand	Natural gas	80.00	80.00	
Subsidiaries of GPSC Group:					
Combined Heat and Power Producing Co., Ltd. (CHPP)	Thailand	Generation and supply of electricity and chilled water	100.00	100.00	
Natee Synergy Co., Ltd. (NSC)	Thailand	Investing in other companies	100.00	100.00	
IRPC Clean power Co., Ltd. (IRPCCP) (The Group held 100% shareholding)	Thailand	Generation and supply of electricity steam and water for industries	51.00	51.00	
Ichinoseki Solar Power 1 GK (ICHINOSEKI)	Japan	Generation and supply of electricity	99.00	99.00	
GPSC International Holdings Limited (GPSCIH)	Hong Kong	Investing in other companies	100.00	-	

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiary of PTTCL Group:				
PTT (Lao) Co., Ltd. (PTT Lao)	Laos	Oil marketing	100.00	100.00
Subsidiaries of PTTOR Group:				
PTT Retail Management Co., Ltd. (PTTRM)	Thailand	Petrol station and convenience store management	100.00	100.00
PTT Retail Service Co., Ltd. (PTTRS)	Thailand	Human resource management	100.00	100.00
Thai Lube Blending Co., Ltd. (TLBC) (The Group held 100% shareholding)	Thailand	Blending and Bottling of lube oil	51.05	51.05
PTT Philippines Trading Corporation (PTTTC)	Philippines	Oil marketing	100.00	100.00
PTT Philippines Corporation (PTTPC)	Philippines	Oil marketing	100.00	100.00
Subsidiary of PTTT Group: PTT International Trading DMCC (PTTT DMCC)	United Arab Emirates	International oil trading	100.00	100.00
Subsidiary of PTTPM Group: Polymer Marketing DMCC Co., Ltd. (PM DMCC)	United Arab Emirates	Petrochemicals marketing	100.00	100.00

	Country of		Shareholding (%)		
Company	Incorporation	Business	2016	2015	
Subsidiaries of PTTGC Group: PTT Phenol Co., Ltd. (PPCL)	Thailand	Manufacturing and distributing petrochemicals products	100.00	100.00	
PTT Maintenance and Engineering Co., Ltd. (PTTME) (The Group held 100% shareholding)	Thailand	Factory maintenance and engineering services	60.00	60.00	
Thai Tank Terminal Limited (TTT)	Thailand	Service for the storage and handling of liquid chemicals, oil and gas	51.00	51.00	
NPC Safety and Environmental Service Co., Ltd. (NPCSE)	Thailand	Safety and environmental services	100.00	100.00	
PTT Chemical International (Asia Pacific ROH) Ltd. (AP ROH)*	Thailand	Services rendering to the Group	100.00	100.00	
Thai Styrenics Co., Ltd. (TSCL)	Thailand	Manufacturing and distributing petrochemicals products	100.00	100.00	
PTTGC International (Netherlands) B.V. (GCINTERNL)	Netherlands	Investing and operating in international business	100.00	100.00	
Vencorex Holding (VCR)	France	Manufacturing and distributing chemical specialties	85.00	85.00	

* Under liquidation process

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiaries of PTTGC Group: (Continued) TOC Glycol Co., Ltd. (TOCGC)	Thailand	Manufacturing and distributing petrochemicals products	100.00	100.00
Global Green Chemicals Public Co., Ltd. (GGC)** (Former: Thai Oleochemicals Co., Ltd. (TOL))	Thailand	Manufacturing and distributing biochemical products	100.00	100.00
Solution Creation Co., Ltd. (SOLUTIONCRE)	Thailand	Manufacturing and distributing health and nutrition products	100.00	100.00
Bio Spectrum Co., Ltd. (BIOSPEC)*	Thailand	Manufacturing and distributing biochemical products	100.00	100.00
Auria BioChemicals Co., Ltd. (AURIA)	Thailand	Research and development of bio-based chemicals	100.00	100.00
PTT Chemical International Pte. Ltd. (CHINTER)	Singapore	Investing and operating in international business	100.00	100.00
PTTGC International (USA) Inc. (GCINTERUSA)	United States of America	Investing and operating in international business	100.00	100.00
Bangkok Polyethylene Public Co., Ltd. (BPE)*	Thailand	Manufacturing and distributing petrochemical products	100.00	100.00

* Under liquidation process

** On February 18, 2016, Thai Oleochemicals Co., Ltd. (TOL) completed its registration for transformation to a public company.

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiaries of PTTGC Group: (Continued)				
Thai Fatty Alcohols Co., Ltd. (TFA)	Thailand	Manufacturing and distributing biochemical products	100.00	100.00
Myriant Corporation (MYRIANT)	United States of America	Research and development of bio-based chemicals	100.00	100.00
PTTGC America Corporation (AMERICACORP)	United States of America	Investing and operating in international business	100.00	100.00
PTTGC America LLC (AMERICALLC)	United States of America	Operating in petrochemical business	100.00	100.00
NPC S&E Security Guard Co., Ltd. (NPCSG)	Thailand	Safety services	100.00	-
Vencorex (Thailand) Co., Ltd. (VENCOREXTH)	Thailand	Manufacturing and distributing chemical specialties	100.00	100.00
Vencorex France S.A.S. (VCF)	France	Manufacturing and distributing chemical specialties	100.00	100.00

Company	Country of		Sharehol	ding (%)
	Incorporation	Business	2016	2015
Subsidiaries of TOP Group:				
Thaioil Power Co., Ltd. (TP)	Thailand	Generation and	73.99	73.99
(The Group held 100% shareholding)		supply of electricity		
		and steam		
Thai Paraxylene Co., Ltd. (TPX)	Thailand	Paraxylene	99.99	99.99
		manufacturing		
		and distribution		
Thai Lube Base Public Co., Ltd. (TLB)	Thailand	Lube base oil refining	99.99	99.99
		and distribution		
Thaioil Marine Co., Ltd. (TM)	Thailand	Providing marine	99.99	99.99
		transportation		
		services for		
		petroleum and liquid		
		chemical products		
Thaioil Ethanol Co., Ltd. (TET)	Thailand	Investing in ethanol	99.99	99.99
		business and		
		alternative energy		
		products		
Thaioil Energy Services Co., Ltd. (TES)	Thailand	Providing of	99.99	99.99
		management and		
		general services		
Thaioil Solvent Co., Ltd. (TOS)	Thailand	Investing in solvent	99.99	99.99
		and chemical		
		businesses		
TOP SPP Co., Ltd. (TOPSPP)	Thailand	Generation and	99.99	99.99
		supply of electricity		
		and steam		

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiaries of TOP Group: (Continued) Sapthip Co., Ltd. (SAPTHIP)	Thailand	Ethanol products manufacturing and distribution	50.00	50.00
TOP Solvent Co., Ltd. (TS)	Thailand	Distribution of solvent and chemical products	99.99	99.99
Sak Chaisidhi Co., Ltd. (SAKC)	Thailand	Solvent and chemical products manufacturing and distribution	80.52	80.52
TOP Solvent (Vietnam) LLC. (TSV)	Vietnam	Distribution of solvent and chemical products	100.00	100.00
Thaioil Marine International Pte. Ltd. (TOMI)	Singapore	Investing in marine transportation for crude oil and petroleum product business	100.00	100.00
TOP Maritime Service Co., Ltd. (TMS)	Thailand	Providing marine transportation services for crew and utilities in Gulf of Thailand	55.00	55.00
LABIX Co., Ltd. (LABIX)	Thailand	Linear Alkyl Benzene manufacturing and distribution	75.00	75.00

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiaries of IRPC Group:				
Thai ABS Co., Ltd. (TABS)*	Thailand	Manufacturing and distributing of plastic resin	99.99	99.99
IRPC A&L Co., Ltd. (IRPCAL)	Thailand	Manufacturing and distributing petrochemicals product	59.94	59.94
IRPC Oil Co., Ltd. (OIRPC)	Thailand	Distributing of oil products and gas	99.99	99.99
Rak Phasak Co., Ltd. (RAKPHASAK) (Former: TPI Oil (2001) Co., Ltd.)	Thailand	Oil vessel rental service	99.99	99.99
IRPC Polyol Co., Ltd. (IRPCP)	Thailand	Manufacturing and distributing of polyol	99.99	99.99
IRPC Technology Co., Ltd. (TECHIRPC)	Thailand	Vocational school	99.99	99.99
R. Solution Co., Ltd. (IRPCS)** Former: IRPC Service Co., Ltd.)	Thailand	Service for security	99.50	99.50
Rayong Tank Terminal Co., Ltd. (RTC)***	Thailand	Rental service for chemical tanks	-	99.99
IRPC Energy Co., Ltd. (IRPCENERGY)****	Thailand	Manufacturing and distributing of electricity	-	99.99
TPI Internet Portal Co., Ltd. (TPIINTERNETPORTAL)*****	Thailand	Distributing of oil products	99.99	99.99

* On August 1, 2016, TABS transferred its entire business to IRPC and TABS also registered its dissolution with Ministry of Commerce on the same day.

- ** Under bankruptcy process
- *** On February 19, 2016, RTC registered its dissolution.

**** On September 30, 2016, IRPCENERGY registered its dissolution.

***** Under liquidation process

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiaries of PTTER Group: PTT Mining Limited (PTTML)	Hong Kong	Investing in other companies	100.00	100.00
International Coal Holdings Pty Ltd (ICH)*	Australia	Investing in other companies	-	100.00
Straits (Brunei) Pte. Ltd. (Straits (Brunei))	Singapore	Investing in other companies	100.00	100.00
Sakari Resources Ltd. (SAR)	Singapore	Investing in coal mine business	95.49	95.26
Yoxford Holdings (YOXFORD)	Mauritius	Investing in other companies	100.00	100.00
Madagascar Consolidated Mining SA (MCM)	Madagascar	Coal mines	80.00	80.00
Tiger Energy Trading Pte. Ltd. (TET)	Singapore	Coal mine marketing	100.00	100.00
Sakari Energy Pte. Ltd. (SAEnergy)	Singapore	Investing in other companies	100.00	100.00
Reyka Wahana Digdjaya Pte. Ltd. (RWD)	Singapore	Investing in other companies	100.00	100.00
Sakari Energy Trading Pte. Ltd. (SET) Singa		Investing in other companies	100.00	100.00
Sakari Marine & Infrastructure Pte. Ltd. (SMI)	Singapore	Marine engineering	100.00	100.00
PT Straits Consultancy Services (SCS)	Indonesia	Management services	100.00	100.00
PT Bahari Perdana Persada (BPPD)	Indonesia	Investing in other companies	100.00	100.00

* On November 4, 2016, ICH completed its dissolution.

	Country of		Shareholding (%)		
Company	Incorporation	Business	2016	2015	
Subsidiaries of PTTER Group: (Continued)					
PT Bahari Putra Perdana (BPPN)	Indonesia	Investing in other companies	100.00	100.00	
PT Reyka Wahana Digdjaya (RWD)	Indonesia	Investing in other companies	100.00	100.00	
PT Bahari Cakrawala Sebuku (BCS)	Indonesia	Coal mines	100.00	100.00	
PT Bumi Borneo Metalindo (BBM)	Indonesia	Investing in other companies	100.00	100.00	
PT Citra Pertiwi Nusantara (CPN)	Indonesia	Coal transport equipment and delivery service	100.00	100.00	
PT Bumiborneo Pertiwi Nusantara (BPN)	Indonesia	Investing in other companies	100.00	100.00	
PT Karbon Mahakam (KM)	Indonesia	Coal mines	100.00	100.00	
PT Metalindo Bumi Raya (MBR)	Indonesia	Coal mines	100.00	100.00	
PT Borneo Citrapertiwi Nusantara (BCN)	Indonesia	Investing in other companies	100.00	100.00	
PT Separi Energy (SE)	Indonesia	Investing in other companies	100.00	100.00	
PT Jembayan Muarabara (JMB)	Indonesia	Coal mines	100.00	100.00	
PT Kemilau Rindang Abadi (KRA)	Indonesia	Coal mines	100.00	100.00	
PT Arzara Baraindo Energitama (ABE)	Indonesia	Coal mines	100.00	100.00	
PT Cakrawala Abadi Jaya (CAJ)	Indonesia	Investing in other companies	100.00	100.00	
PT Sakti Utama Luas (SUL)	Indonesia	Investing in other companies	100.00	100.00	

	Country of		Shareholding (%)		
Company	Incorporation	Business	2016	2015	
Subsidiaries of PTTER Group: (Continued)					
Tri Tunggall Lestari Bersama (TTLB)	Indonesia	Infrastructure business	100.00	100.00	
PT Makassar Prima Coal (MPC)	Indonesia	Coal mines	70.00	70.00	
PTT International Holding Limited (PTTIH)	Hong Kong	Investing in other companies	100.00	100.00	
PTT International Investment Limited (PTTII)	Hong Kong	Investing in other companies	100.00	100.00	
PTT International (Singapore) Company Pte. Limited (PTT Inter (Sing))	Singapore	Investing in other companies	100.00	100.00	
<u>Subsidiaries of PTTGE Group</u> : Sabran Brothers Pte. Ltd. (Sabran)	Singapore	Investing in other companies	100.00	100.00	
Kalimantan Thailand Palm Pte. Ltd. (KTP)	Singapore	Investing in other companies	100.00	100.00	
PTT Green Energy (Hong Kong) Limited (PTTGE HK)	Hong Kong	Financing	100.00	100.00	
PTT Green Energy (Thailand) Co., Ltd. (PTTGE TH)	Thailand	Management services for PTTGE Group	100.00	100.00	

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Subsidiary of BSA Group: Sport Services Alliance Co., Ltd. (SSA)	Thailand	Football club management	100.00	100.00
Subsidiary held by PTTEP and PTTER: PTT FLNG Limited (PTT FLNG)*	Hong Kong	Petroleum	100.00	100.00
Joint operations of PTTEP Group: Carigali - PTTEPI Operating Company Sdn. Bhd. (CPOC)	Malaysia	Petroleum	50.00	50.00
Moattama Gas Transportation Company (MGTC)	Bermuda	Gas pipelines transportation	25.50	25.50
Taninthayi Pipeline Company LLC (TPC)	Cayman Islands	Gas pipelines transportation	19.32	19.32
Orange Energy Limited (Orange)	Thailand	Petroleum	53.95	53.95
B 8/32 Partners Limited (B8/32 Partners)	Thailand	Petroleum	25.00	25.00
Andaman Transportation Limited (ATL)	Cayman Islands	Gas pipelines transportation	80.00	80.00
Leismer Aerodrome Limited (LAL)	Canada	Air transportation services	32.00	32.00
Groupement Bir Seba (GBRS)	Algeria	Petroleum	35.00	35.00
Natuna 2 B.V. (Natuna 2)	Netherlands	Petroleum	50.00	50.00

* On December 26, 2014, the Board of Directors of PTT FLNG passed a resolution to close PTT FLNG. Currently, PTT FLNG is in the process of dissolution, which it submitted "No Objection" on September 20, 2016.

13.4 Investments in joint ventures in the consolidated financial statements as at December 31, 2016 and 2015

	Ownership interest (%) 2016		20)15	Dividend income			
Company	2016	2015	Cost method	Equity method	Cost method	Equity method	2016	2015
1. TTM(T)	50.00	50.00	4,341.80	4,724.49	5,666.80	5,950.23	473.85	680.02
2. TTM(M)	50.00	50.00	1,001.31	1,294.15	1,001.31	1,262.93	164.32	
3. DCAP	35.00	35.00	584.50	804.56	584.50	713.33	15.40	15.36
4. PTTMCC	50.00	50.00	930.12	551.43	930.12	610.28	-	-
5. PTTAC	50.00	48.50	6,909.41	4,310.62	6,909.41	4,173.13	-	-
6. HMC	41.44	41.44	9,117.12	12,315.37	9,117.12	12,461.02	2,692.76	3,024.02
7. Erawan 2	13.11	13.11	610.66	717.37	662.37	768.57	93.92	91.88
8. TSR	40.00	40.00	1,697.00	1,713.58	1,697.00	1,721.80	291.67	277.90
9. NL1PC	40.00	40.00	318.65	291.89	237.27	189.83	-	-
10. NNEG	30.00	30.00	480.90	466.58	324.00	265.38	-	-
11. OGPS	40.00	40.00	40.00	34.33	40.00	39.83	-	-
12. TEX	50.00	50.00	210.00	688.24	210.00	660.04	70.88	122.33
13. EOM	50.00	50.00	4,965.77	5,101.78	4,965.77	5,255.19	-	-
14. ESC	50.00	50.00	407.04	81.61	407.04	227.16	-	-
15. NTR	50.00	50.00	4,793.33	3,236.20	4,793.33	3,704.19	-	-
16. TOP-NTL	50.00	50.00	0.25	10.08	0.25	8.03	-	-
17. TOP-NTL(BT)	50.00	50.00	24.05	27.86	24.05	14.10	-	-
18. TOP-NYK	50.00	50.00	273.88	440.83	273.88	432.64	26.48	18.01
19. TOP-NS	35.00	35.00	52.50	21.82	52.50	-	-	-
20. IRPC PCC	49.99	49.99	5.00	11.02	5.00	3.07	-	-
21. FEEBRU	35.00	35.00	235.55	148.21	222.12	143.76	-	-
22. Chancellor	77.56	77.56	3,257.34	1,422.81	3,280.78	1,433.36	-	-
			40,256.18	38,414.83	41,404.62	40,037.87		
Less Allowance for								
impairment			(3,492.89)	(1,571.02)	(2,795.20)	(947.78)		
Total			36,763.29	36,843.81	38,609.42	39,090.09	3,829.28	4,229.52

13.5 Investments in associates in the consolidated financial statements as at December 31, 2016 and 2015

Company		Ownership	interest (%)	2016		20)15	Dividend income	
	Company	2016	2015	Cost method	Equity method	Cost method	Equity method	2016	2015
1	THAPPLINE	49.59	49.59	3,952.72	4,986.78	3,952.72	5,426.00	1,342.78	261.07
	KPL	40.00	40.00	21.49	-	21.49	-	-	-
	PAT	35.00	35.00	131.25	-	131.25	-	_	-
4.	PTTEP AP								
	Group's								
	associates	50.00	50.00	53.66	249.98	54.05	277.58	4.00	3.03
5.	UAQ	-	30.00	-	-	0.01	0.01	-	-
6.	BIC	25.00	25.00	673.44	492.02	673.44	490.47	40.58	40.84
7.	XPCL	25.00	25.00	4,404.43	3,801.87	3,321.89	2,923.47	-	-
8.	FST	25.00	25.00	0.85	1.56	0.90	1.67	-	-
9.	ITT	49.00	49.00	125.28	148.22	125.28	109.69	-	-
10.	VNT	24.98	24.98	3,297.39	4,210.33	3,297.39	4,019.89	118.42	29.60
11.	EFT	22.65	22.65	2.27	15.64	2.27	15.81	7.25	7.25
12.	TETSO	30.00	-	16.65	16.20	-	-	-	-
13.	TIM	33.33	33.33	1.00	-	1.00	4.51	-	-
14.	MCE	30.00	30.00	202.50	3.10	202.50	42.45	-	-
15.	UBE	21.28	21.28	769.55	801.90	769.55	780.65	-	-
16.	UCHA	25.00	25.00	5,299.82	4,701.98	5,299.82	4,752.72	-	-
17.	EMG	25.00	25.00	17,516.97	4,055.87	17,643.03	14,199.47	-	-
				36,469.27	23,485.45	35,496.59	33,044.39		
<u>Less</u>	Allowance for								
im	pairment			(17,669.71)	(4,055.87)	(13,710.71)	(10,114.41)		
Total				18,799.56	19,429.58	21,785.88	22,929.98	1,513.03	341.79

13.6 Investments in subsidiaries, joint ventures and associates in the separate financial statements as at December 31, 2016 and 2015

				Cost m	nethod	Dividenc	l income	
	Company	2016	2015	2016	2015	2016	2015	
Subs	idiaries							
1.	PTTEP	65.29	65.29	71,390.42	71,390.42	7,127.62	6,479.65	
2.	PTTLNG	100.00	100.00	10,958.44	9,163.60	1,730.06	1,462.84	
3.	PTTNGD	58.00	58.00	418.14	418.14	-	-	
4.	EnCo	50.00	50.00	900.00	900.00	72.32	42.08	
5.	PTTES	40.00	40.00	62.50	62.50	-	-	
6.	PTTME	40.00	40.00	66.40	66.40	-	-	
7.	GPSC	22.58	22.58	4,949.93	4,949.93	355.18	297.67	
8.	PTTCL	100.00	100.00	103.49	64.12	-	-	
9.	PTTOM	100.00	100.00	16.15	16.15	-	-	
10.	PTTOR	100.00	100.00	8,621.67	8,621.67	-	-	
11.	SBECL	-	100.00	-	1,154.81	-	-	
12.	PTT TANK	100.00	100.00	2,500.37	2,500.37	90.00	80.00	
13.	TLBC	48.95	48.95	140.00	140.00	8.68	8.96	
14.	PTTT	100.00	100.00	2.50	2.50	-	-	
15.	PTTT LDN	100.00	-	18.16	-	-	-	
16.	PTTPL	50.00	50.00	600.00	600.00	-	1,326.00	
17.	PTTPMMA	100.00	100.00	217.14	194.70	-	-	
18.	PTTPM	50.00	50.00	20.00	20.00	250.00	55.00	
19.	PTTGC	49.42	49.34	48,121.52	48,121.52	5,180.15	5,510.80	
20.	ТОР	49.10	49.10	11,380.83	11,380.83	3,305.44	1,502.47	
21.	IRPC	38.51	38.51	28,467.24	28,467.24	1,731.33	629.58	
22.	TP	26.00	26.00	2,304.76	2,304.76	255.71	131.51	
23.	PTTER	100.00	100.00	33,702.67	33,702.67	-	-	
24.	PTTGE	100.00	100.00	11,750.64	11,750.64	-	-	

13.6 Investments in subsidiaries, joint ventures and associates in the separate financial statements as at December 31, 2016 and 2015 (Continued)

Ownership interest (%) Cost method Dividend income							
Company	Ownership	interest (%)	Cost n	nethod	Dividenc	l income	
,	2016	2015	2016	2015	2016	2015	
Subsidiaries (Continued)							
25. PTTRTC	100.00	100.00	31.40	31.40	-	-	
26. BSA	100.00	100.00	0.50	0.50	17.02	13.86	
27. PTTICT	20.00	20.00	30.00	30.00	13.00	13.20	
Investments in subsidiaries			236,774.87	236,054.87			
Less Allowance for impairment			(26,414.37)	(25,843.63)			
Total investments in subsidiaries			210,360.50	210,211.24	20,136.51	17,553.62	
Joint Ventures							
28. TTM(T)	50.00	50.00	4,341.80	5,666.80	473.85	680.02	
29. TTM(M)	50.00	50.00	1,001.31	1,001.31	164.32	-	
30. DCAP	35.00	35.00	584.50	584.50	15.40	15.35	
31. PTTMCC	50.00	50.00	930.13	930.13	-	-	
32. PTTAC	50.00	48.50	6,909.41	6,909.41	-	-	
33. HMC	41.44	41.44	9,117.12	9,117.12	2,692.76	3,024.02	
Total investments in joint ventures			22,884.27	24,209.27	3,346.33	3,719.39	
Associates							
34. THAPPLINE	40.40	40.40	3,173.23	3,173.23	1,095.44	212.98	
35. KPL	40.00	40.00	21.49	21.49	-	-	
36. PAT	35.00	35.00	131.25	131.25	-	-	
Investments in associates			3,325.97	3,325.97			
Less Allowance for impairment			(152.74)	(152.74)			
Total investments in associates			3,173.23	3,173.23	1,095.44	212.98	
Total			236,418.00	237,593.74	24,578.28	21,485.99	

13.7 Movements in investments in the consolidated and the separate financial statements

13.7.1 Movements in investments in joint ventures under the equity method in the consolidated financial statements are as follows:

		Unit: Million Baht
	2016	2015
Balance as at January 1	39,090.09	42,782.71
- Share of profit from investments in joint ventures	2,980.57	1,749.94
- Dividend income	(3,829.28)	(4,229.52)
- Additional investments	238.28	165.33
- Disposal of investments	-	(669.86)
- Share capital reduction	(1,371.27)	(44.82)
- Share of other comprehensive income of joint ventures	361.07	1,076.66
- Currency translation differences	(5.14)	(283.14)
- Loss on impairment of investments (Note 21)	(620.51)	(1,457.21)
Balance as at December 31	36,843.81	39,090.09

13.7.2 Movements in investments in associates under the equity method in the consolidated financial statements are as follows:

	2016	2015
Balance as at January 1	22,929.98	46,765.52
- Share of profit from investments in associates	1,162.64	4,281.76
- Dividend income	(1,513.03)	(3,898.36)
- Additional investments	1,099.19	795.95
- Disposal of investments	-	(20,335.24)
- Share capital reduction	(0.01)	(4,549.21)
- Reclassification	-	(2,033.30)
- Share of other comprehensive income (loss) of associates	(161.85)	1,526.55
- Currency translation differences	(92.70)	376.31
- Loss on impairment of investments (Note 21)	(3,994.64)	-
Balance as at December 31	19,429.58	22,929.98

13.7.3 Movements in investments in subsidiaries, joint ventures and associates under the cost method in the separate financial statements are as follows:

		Unit: Million Baht
	2016	2015
Balance as at January 1	237,593.74	272,149.97
- Additional investments	1,874.81	3,357.53
- Disposal of investments	(887.49)	(14,783.36)
- Share capital reduction	(1,325.00)	(4,549.21)
- Reclassification	-	(1,623.17)
- Loss on impairment of investments (Note 21)	(838.06)	(16,958.02)
Balance as at December 31	236,418.00	237,593.74

13.8 Summary financial information of the joint ventures of the Company, after accounting policy adjustment are as follows:

Statements of financial position as at December 31, 2016 and 2015

	2016						2015					
	TTM(T)	TTM(M)	DCAP	PTTAC	НМС	PTTMCC	TTM(T)	TTM(M)	DCAP	PTTAC	НМС	PTTMCC
Current assets	4,782.47	2,460.28	1,085.59	5,349.63	8,470.65	310.15	7,849.25	1,862.41	1,082.31	4,295.22	9,531.19	669.27
Non-current assets	17,874.66	5,976.71	2,641.13	23,574.36	26,997.10	3,318.36	19,153.07	6,459.42	2,852.84	24,387.54	26,904.09	2,889.58
Current liabilities	(1,573.98)	(771.59)	(605.68)	(3,624.13)	(3,869.78)	(301.50)	(2,161.89)	(207.68)	(700.85)	(6,850.64)	(3,929.16)	(96.60)
Non-current liabilities	(11,634.16)	(5,077.12)	(822.31)	(16,678.61)	(9,211.43)	(2,224.16)	(12,939.96)	(5,588.29)	(1,196.21)	(13,227.73)	(9,768.14)	(2,241.69)
Net assets	9,448.99	2,588.28	2,298.73	8,621.25	22,386.54	1,102.85	11,900.47	2,525.86	2,038.09	8,604.39	22,737.98	1,220.56

Unit: Million Baht

Statements of income for the years ended December 31, 2016 and 2015

Unit: Million Baht

			20	16			2015					
	TTM(T)	TTM(M)	DCAP	PTTAC	НМС	PTTMCC	TTM(T)	TTM(M)	DCAP	PTTAC	НМС	PTTMCC
Revenue*	3,307.40	951.79	2,625.67	11,906.63	31,689.16	20.56	3,929.53	1,125.20	2,920.05	13,138.94	31,980.56	13.60
Expenses	(2,233.01)	(270.68)	(2,244.40)	(11,892.26)	(25,546.81)	(138.26)	(2,157.98)	(249.07)	(2,639.73)	(14,877.59)	(26,621.44)	(362.82)
Profit (loss) before taxes	1,074.39	681.11	381.27	14.37	6,142.35	(117.70)	1,771.55	876.13	280.32	(1,738.65)	5,359.12	(349.22)
Income taxes	(102.73)	(139.20)	(76.98)	2.48	(861.10)	-	(566.52)	(50.31)	(60.88)	(0.77)	(766.79)	-
Net profit (loss)	971.66	541.91	304.29	16.85	5,281.25	(117.70)	1,205.03	825.82	219.44	(1,739.42)	4,592.33	(349.22)

* Including gain (loss) on foreign exchange rate

13.9 Summary financial information of the associates of the Company, after accounting policy adjustment are as follows:

Statements of financial position as at December 31, 2016 and 2015

		Unit: Million Baht
	2016	2015
	THAPPLINE	THAPPLINE
Current assets	4,910.55	5,855.62
Non-current assets	6,293.28	6,250.88
Current liabilities	(610.50)	(647.62)
Non-current liabilities	(108.89)	(4,053.55)
Net assets	10,484.44	7,405.33

Financial information of PAT and KPL, associates of the Company, was disclosed in Note 13.11.

Statements of income for the years ended December 31, 2016 and 2015

Unit: Million Baht

	2016	2015
	THAPPLINE	THAPPLINE
Income*	3,517.90	3,437.96
Expenses	(1,229.87)	(1,244.30)
Profit before taxes	2,288.03	2,193.66
Income taxes	(459.79)	(216.09)
Net profit	1,828.24	1,977.57

Financial information of PAT and KPL, associates of the Company, was disclosed in Note 13.11.

* Including gain (loss) on foreign exchange rate.

13.10 Significant events during the year ended December 31, 2016

PTTCL

On March 31, 2015, at the Ordinary General Shareholders' Meeting of PTT (Cambodia) Limited (PTTCL) No. 1/2015, the shareholders passed a resolution to increase authorized share capital not exceed USD 2.91 million or equivalent to Baht 96 million by issuing 582,000 additional shares with a par value of KHR 20,000 each. On January 29, 2016, PTTCL called up additional authorized share capital of Baht 39.37 million. The Company made the share payment on February 15, 2016.

SBECL

On August 22, 2014, at the Board of Directors Meeting No. 8/2014 of the Company, the Board passed a resolution to approve the dissolution of Subic Bay Energy Company Limited (SBECL). On October 28, 2015, the Company received USD 25.10 million, or equivalent to Baht 887.49 million, from SBECL and recognized loss on impairment of investment amounting to Baht 267.32 million in the separate financial statements. On February 17, 2016, SBECL registered its dissolution; therefore, the Company wrote off its entire investment in SBECL and recognized loss on the disposal of the investment of Baht 143.79 million in the consolidated financial statements.

PTTLNG

On June 21, 2016, at the Board of Directors Meeting of PTT LNG Company Limited (PTTLNG) No. 5/2016, the Board passed a resolution to approve the call up of additional share capital of Baht 963 million and 731.88 million, respectively. The Company made the additional payment on August 16, 2016 and October 17, 2016, respectively.

On October 31, 2016, at the Board of Directors Meeting of PTT LNG No. 10/2016, the Board passed a resolution to approve the call up of additional share capital of Baht 99.96 million. The Company made the additional payment on December 16, 2016.

TTM(T)

On April 22, 2016, at the Board of Directors Meeting No. 4/2016 of the Company, the Board passed a resolution to decrease the authorized share capital of Trans Thai-Malaysia (Thailand) Company Limited (TTM(T)) from Baht 11,333.60 million to no less than Baht 8,600 million, through a reduction in capital of no more than Baht 2,732 million. On July 25, 2016, TTM(T) registered the decrease in its authorized share capital from Baht 11,333.60 million to Baht 8,683.60 million by decreasing 265 million ordinary shares of Baht 10 each, or amounting to Baht 2,650 million. The Company received capital return of Baht 1,325 million on July 28, 2016.

13.10 Significant events during the year ended December 31, 2016 (Continued)

PTTPMMA

On March 23, 2012, at the Board of Directors Meeting No. 3/2012 of the Company, the Board passed a resolution to increase the authorized share capital of PTT PMMA Company Limited (PTTPMMA) not exceed than Baht 4,480 million. On October 21, 2016, PTTPMMA called for the third payment of 6.6 million additional shares at Baht 3.40 per share, amounting to Baht 22.44 million. The Company made the share payment on October 28, 2016.

PTTAC

On February 19, 2016, at the Board of Directors Meeting No. 2/2016 of the Company, the Board passed a resolution to approve the shareholder restructuring of PTT Asahi Chemicals Company Limited (PTTAC) by decreasing authorized share capital by way of private placement. Additionally, at the Extraordinary General Meeting No. 1/2016 of the shareholders of PTTAC on February 26, 2016, the shareholders passed a resolution to decrease authorized share capital of PTTAC by way of private placement, held by Marubeni Corporation (Marubeni), by decreasing entirely authorized share capital held by Marubeni totaling 4.27 million shares with a par value of Baht 100 each. Therefore, the authorized share capital of PTTAC decreased from Baht 14,246.20 million (142.46 million shares) to Baht 13,818.81 million (138.19 million shares). Consequently, the Company's shareholding in PTTAC increased to 50%. On November 11, 2016, PTTAC registered its capital reduction with Ministry of Commerce.

PTTT LDN

At the Board of Directors Meeting No. 2/2016 of the Company on February 19, 2016 and the Cabinet Meeting on August 30, 2016, the Board and the Cabinet passed a resolution to approve the establishment of PTT International Trading London Limited (PTTT LDN) in London, United Kingdom, to operate international trading business of the Group under the supervision of international trading business unit. The Company holds a 100% shareholding of PTTT LDN, which was established on October 24, 2016.

PTTT LDN has an initial registered share capital of GBP 420,000 or equivalent to Baht 18.16 million comprising 420,000 shares with a par value of GBP 1 each. The Company already paid full amount on November 11, 2016.

PTTOR

On November 18, 2016, at the Board of Directors Meeting No. 11/2016 of the Company, the Board passed a resolution to approved the restructuring of the Company by means of transfer of the oil business unit, including of the assets and liabilities of the business unit, and the shares of companies related to the oil business unit from the Company to PTT Retail Business Company Limited (PTTRB) and the change of PTTRB's name to PTT Oil and Retail Business Company Limited (PTTOR). Consequently, PTTRB registered with Department of Business Development, Ministry of Commerce to change its name to PTTOR on December 15, 2016.

13.11 Additional information in respect of associates

The Company has not recognized its share of profit (loss) from some associates for the year ended December 31, 2016 amounting to Baht (28.67) million (2015: Baht 2.08 million) because, as at December 31, 2016, the Company had an unrealized allowance for its share of loss from these associates amounting to Baht 102.97 million (December 31, 2015: Baht 84.55 million).

13.12 Investments in subsidiaries, joint ventures and associates where voting rights and ownership interests differ are as follows:

Unit: Percentage Voting rights Ownership Company Subsidiary PTTGC 48.89 49.42 Joint venture HMC 42.10 41.44 Associate THAPPLINE 49.22 49.21

13.13 Material non-controlling interests

Financial information of subsidiaries that have material non-controlling interests are as follow:

	Country of	Non–controlling interests Shareholding (%)			
Company	Incorporation	2016	2015		
	T I 11 1	0471	04.71		
PTT Exploration and Production Public Co., Ltd. (PTTEP) Thai Oil Public Co., Ltd. (TOP)	Thailand Thailand	34.71 50.07	34.71 50.07		
IRPC Public Co., Ltd. (IRPC)	Thailand	61.49	61.49		
PTT Global Chemical Public Co., Ltd. (PTTGC)	Thailand	50.58	50.66		
Global Power Synergy Public Co., Ltd. (GPSC)	Thailand	25.00	25.00		

13.13 Material non-controlling interests (Continued)

Financial information of subsidiaries that have material non-controlling interests, after accounting policy adjustment, before eliminations:

Summary of financial position as at December 31, 2016 and 2015

									UII	n. Million bant
			2015							
	PTTEP	TOP	IRPC	PTTGC	GPSC	PTTEP	ТОР	IRPC	PTTGC	GPSC
Current assets	185,972.83	115,730.64	39,970.19	127,513.47	11,665.02	169,641.79	90,489.68	35,984.32	117,900.59	16,316.25
Non-current assets	490,916.70	101,995.80	132,529.68	265,652.73	46,248.10	539,221.77	101,676.01	127,189.35	259,644.26	39,550.27
Current liabilities	(39,442.94)	(34,294.87)	(52,839.53)	(53,267.60)	(4,197.31)	(50,804.42)	(18,179.30)	(36,209.96)	(41,220.79)	(4,568.79)
Non-current liabilities	(229,462.67)	(71,829.57)	(39,666.03)	(91,229.84)	(15,076.86)	(249,248.10)	(76,974.57)	(52,261.05)	(102,059.30)	(14,171.15)
Net assets	407,983.92	111,602.00	79,994.31	248,668.76	38,638.95	408,811.04	97,011.82	74,702.66	234,264.76	37,126.58
Owners of the parent	242,078.98	53,366.84	30,774.60	121,578.77	27,775.64	242,618.97	46,127.39	28,741.14	114,252.45	27,003.66
Non-controlling interests	165,904.94	58,235.16	49,219.71	127,089.99	10,863.31	166,192.07	50,884.43	45,961.52	120,012.31	10,122.92

13.13 Material non-controlling interests (Continued)

Financial information of subsidiaries that have material non-controlling interests, after accounting policy adjustment, before eliminations: (Continued)

Summary of comprehensive income or loss for the years ended December 31, 2016 and 2015

			2016			2015				
	PTTEP	TOP	IRPC	PTTGC	GPSC	PTTEP	ТОР	IRPC	PTTGC	GPSC
Revenue	150,689.32	277,244.03	181,553.68	352,433.97	21,784.83	191,266.95	294,563.43	217,820.00	407,960.00	23,313.75
Expenses	127,744.87	253,355.23	172,530.25	323,528.82	18,772.62	205,988.43	280,868.98	206,566.61	385,300.22	21,334.57
Profit (loss) before taxes	22,944.45	23,888.80	9,023.43	28,905.15	3,012.21	(14,721.48)	13,694.45	11,253.39	22,659.78	1,979.18
Income taxes	10,084.73	2,295.46	282.42	3,025.09	140.23	16,869.01	1,597.36	2,345.84	1,984.09	90.03
Net profit (loss)	12,859.72	21,593.34	8,741.01	25,880.06	2,871.98	(31,590.49)	12,097.09	8,907.55	20,675.69	1,889.15
Other comprehensive income (loss)	(853.02)	(9.41)	(115.58)	(405.34)	(96.73)	37,818.24	(145.74)	201.77	148.98	17.54
Total comprehensive income	12,006.70	21,583.93	8,625.43	25,474.72	2,775.25	6,227.75	11,951.35	9,109.32	20,824.67	1,906.69
Owners of the parent	7,838.74	10,600.20	3,309.95	12,474.81	1,951.89	4,065.87	5,709.06	3,499.96	10,186.74	1,923.25
Non-controlling interests	4,167.96	10,983.73	5,315.48	12,999.91	823.36	2,161.88	6,242.29	5,609.36	10,637.93	(16.56)
Total dividend paid to NCI	3,788.96	3,376.83	2,777.74	5,693.02	393.30	3,443.76	1,534.53	1,021.28	6,254.12	131.10

13.13 Material non-controlling interests (Continued)

Financial information of subsidiaries that have material non-controlling interests, after accounting policy adjustment, before eliminations: (Continued)

Summary of cash flows for the years ended December 31, 2016 and 2015

			2016			2015				
	PTTEP	ТОР	IRPC	PTTGC	GPSC	PTTEP	ТОР	IRPC	PTTGC	GPSC
Cash flows from operating activities	80,480.38	23,181.63	7,227.46	44,490.25	4,130.09	98,754.13	31,708.48	27,840.05	50,822.36	2,631.79
Cash flows from investing activities	(95,999.99)	(18,348.15)	(10,689.87)	(111.18)	(1,049.28)	(73,028.81)	2,529.59	(11,271.35)	(22,344.73)	(14,109.48)
Cash flows from financing activities	(19,211.30)	(9,397.30)	1,928.77	(24,584.06)	(382.97)	(56,821.37)	(14,739.92)	(15,001.48)	(30,027.75)	10,921.62
Others	(292.39)	(76.22)	-	-	-	9,639.22	29.22	-	(786.74)	-
Net increase (decrease) in cash										
and cash equivalents	(35,023.30)	(4,640.04)	(1,533.64)	19,795.01	2,697.84	(21,456.83)	19,527.37	1,567.22	(2,336.86)	(556.07)

14. Available-for-sale Investments

14.1 Details of available-for-sale investments

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Available-for-sale Investments of the Company				
Investments in Equity Securities				
Dhipaya Insurance Public Co., Ltd. (TIP)	Thailand	Insurance	13.33	13.33
Bangkok Aviation Fuel Services Public Co., Ltd. (BAFS)	Thailand	Aircraft refuelling services	7.06	7.06
Star Petroleum Refining Public Co., Ltd. (SPRC)	Thailand	Refining	5.41	5.41
Investments in Mutual Funds				
Core Flexible Fund (CORE)	Thailand	Mutual fund	32.57	32.57
CIMB - PRINCIPAL Energy and Petrochemical Index Fund (CIMB - PRINCIPAL EPIF)	Thailand	Mutual fund		
Vayupak fund 1 (VAYU1)	Thailand	Mutual fund		

14.1 Details of available-for-sale investments (Continued)

	Country of		Shareho	lding (%)
Company	Incorporation	Business	2016	2015
Available-for-sale Investments of Subsidiaries				
Investments in Equity Securities				
PTTEP Group Wentworth Resources Limited (WRL)	Canada	Oil and natural gas exploration	1.18	1.18
IRPC Group				
Bangkok Union Insurance Public Co., Ltd. (BUI)	Thailand	Insurance	0.35	0.35
PTTER Group				
Xanadu Mines Ltd. (XML)	Mongolia	Mineral exploration	4.82	5.53
Investment in Debt Securities				
PTTGC Group Debt Securities Available for Sale (in Private Fund) (DSAFS)*	Thailand	Private Fund		
TOP Group				
Debt Securities Available for Sale (in Private Fund) (DSAFS)**	Thailand	Private Fund		
Investments in Mutual Funds				
TOP Group				
Core Flexible Fund (CORE)	Thailand	Mutual fund	16.29	16.29

* During the third quarter of 2016, PTTGC established private funds and engaged independent asset management companies for the purpose of cash balance management of PTTGC. Those private funds have invested in debt securities which have high liquidity and credit quality.

** During the year of 2016, TOP established private funds and engaged independent asset management companies. Those private funds have invested in debt securities which have credit quality.

14.2 Details of available-for-sale investments as at December 31, 2016 and December 31, 2015 are as follows:

	Ownershij	p interest	Conso	lidated	Sepa	arate			
	(%	6)	financial s	tatements	financial s	tatements	Dividenc	l income	
Company	2016	2015	2016	2015	2016	2015	2016	2015	
Investments in									
Equity Securities									
TIP	13.33	13.33	312.00	312.00	312.00	312.00	110.00	90.00	
BAFS	7.06	7.06	24.00	24.00	24.00	24.00	60.75	31.77	
WRL	1.18	1.18	37.43	45.48	-	-	-	-	
BUI	0.35	0.35	2.35	2.35	-	-	0.07	-	
XML	4.82	5.53	262.94	264.84	-	-	-	-	
SPRC	5.41	5.41	1,876.50	1,876.50	1,623.17	1,623.17	188.02	3,406.68	
Total investments									
in equity securities			2,515.22	2,525.17	1,959.17	1,959.17			
Investment in									
Debt Securities									
DSAFS			5,430.65	-	-	-	-	-	
Total investment									
in debt securities			5,430.65	-	-	-	-	-	
Investments in									
Mutual Funds									
CORE	48.86	48.86	674.74	674.74	449.83	449.83	-	-	
CIMB - PRINCIPLE EPIF			6,300.00	6,300.00	6,300.00	6,300.00	-	71.83	
VAYU1			15.24	15.23	10.00	10.00	0.09	0.14	
Total investments									
in mutual funds			6,989.98	6,989.97	6,759.83	6,759.83			
Total available-for-sale									
investments before									
changes in value of									
investments			14,935.85	9,515.14	8,719.00	8,719.00			
Allowance for changes									
in value			8,946.03	3,880.50	9,397.25	4,389.79			
Less Allowance for									
impairment			(42.34)	(42.65)	-	-			
Total			23,839.54	13,352.99	18,116.25	13,108.79	358.93	3,600.42	

14.3 Movements in available-for-sale investments are as follows:

				Unit: Million Baht	
		lidated tatements	Separate financial statements		
	2016	2015	2016	2015	
Balance as at January 1	13,352.99	12,636.20	13,108.79	12,369.98	
- Additional investments	5,430.65	-	-	-	
- Disposals of investments	-	(75.11)	-	(50.07)	
- Reclassifications	-	1,876.50	-	1,623.17	
- Unrealized gain (loss) on					
available-for-sale investments	5,055.51	(1,096.61)	5,007.46	(834.29)	
- Currency translation differences	0.39	12.01	-	-	
Balance as at December 31	23,839.54	13,352.99	18,116.25	13,108.79	

15. Other Long-term Investments

15.1 Details of other long-term investments are as follows:

Company	Country of Incorporation	Business	Shareholding (%)	
			2016	2015
Other Long-term Investments of the Company				
Petro Asia (Sanshui) Co., Ltd. (PA (Sanshui))	China	Oil marketing	25.00	25.00
Petro Asia (Maoming) Co., Ltd. (PA (Maoming))	China	Oil marketing	20.00	20.00
Intoplane Services Co., Ltd. (IPS)	Thailand	Aircraft refuelling services	16.67	16.67
Colour Vision International Co., Ltd. (Corpus)	Thailand	Finished yarn production	0.48	0.48
Fuel Pipeline Transportation Co., Ltd. (FPT)*	Thailand	Oil transmission pipelines	-	-

* As at December 31, 2016, the Company holds 0.0000090% of ownership interest (December 31, 2015: the Company holds 0.00013% of ownership interest).

15.1 Details of other long-term investments are as follows: (Continued)

Company	Country of Incorporation	Business	Shareholding (%)	
			2016	2015
Other Long-term Investments of Subsidiaries				
GPSC Group 24M Technologies, Inc. (24M)	United State of America	Research and development of battery	19.00	17.00
Ratchaburi Power Co., Ltd. (RPCL)	Thailand	Electricity generation	15.00	15.00
PTTT Group KIC Oil Terminal Sdn. Bhd. (KOT)	Malaysia	Logistics services	10.00	10.00
Kadriah Integrated Facilities Sdn. Bhd. (KIF)	Malaysia	Logistics services	10.00	10.00
Kadriah I Ltd. (K I)	Malaysia	Logistics services	10.00	10.00
Kadriah II Ltd. (K II)	Malaysia	Logistics services	10.00	10.00
PTTGC Group Alliance Petrochemical Investment (Singapore) Pte. Ltd. (API)	Singapore	Investment in other companies	15.34	15.34
Exeltium SAS (EXS)	France	Electricity business	4.00	4.00
IRPC Group TPI EOEG Co., Ltd. (TPIE)	Thailand	Finance service	36.31	36.31
TPI Holding Co., Ltd. (TPIH)	Thailand	Investment in other companies	35.01	35.01
Pornchai Enterprises Co., Ltd. (PEC)	Thailand	Real estate for rent	23.65	23.65
Thai Special Steel Industries Public Co., Ltd. (TSSI)	Thailand	Steel wire manufacturing	16.24	16.24
Rayong Acetylene Co., Ltd. (RAC)	Thailand	Industrial gas manufacturing	13.04	13.04
DIA Polyacrylate Co., Ltd. (DIA)	Thailand	Plastic resin manufacturing	3.65	3.65

15.2 Details of other long-term investments as at December 31, 2016 and 2015 are as follows:

	Company	Ownershij (%		Consolidated financial statements						Dividend	income
		2016	2015	2016	2015	2016	2015	2016	2015		
1.	PA (Sanshui)	25.00	25.00	6.06	6.06	6.06	6.06	-	-		
2.	PA (Maoming)	20.00	20.00	14.83	14.83	14.83	14.83	-	-		
3.	IPS	16.67	16.67	0.02	0.02	0.02	0.02	-	-		
4.	Corpus	0.48	0.48	0.60	0.60	0.60	0.60	-	-		
5.	FPT*	-	-	0.02	0.02	0.02	0.02	-	-		
6.	24M	19.00	17.00	715.62	479.38	-	-	-	-		
7.	RPCL	15.00	15.00	888.75	888.75	-	-	420.00	288.00		
8.	КОТ	10.00	10.00	125.90	126.80	-	-	-	-		
9.	KIF	10.00	10.00	52.17	52.55	-	-	-	-		
10.	ΚI	10.00	10.00	262.24	264.12	-	-	-	-		
11.	K II	10.00	10.00	70.10	70.60	-	-	-	-		
12.	API	15.34	15.34	290.24	290.24	-	-	14.11	-		
13.	EXS	4.00	4.00	282.88	282.88	-	-	-	-		
14.	TPIE	36.31	36.31	828.94	828.94	-	-	-	-		
15.	TPIH	35.01	35.01	1,415.90	1,415.90	-	-	-	-		
16.	PEC	23.65	23.65	1,118.95	1,117.06	-	-	-	-		
17.	TSSI	16.24	16.24	673.35	673.35	-	-	-	-		
18.	RAC	13.04	13.04	15.00	15.00	-	-	-	-		
19.	DIA	3.65	3.65	8.50	8.50	-	-	2.55	1.49		
20.	Other	-	-	0.50	-	-	-	-	-		
				6,770.57	6,535.60	21.53	21.53				
Less	Allowance for										
	impairment			(4,564.69)	(4,566.47)	(14.14)	(14.14)				
To				2,205.88	1,969.13	7.39	7.39	436.66	289.49		

Unit: Million Baht

* As at December 31, 2016, the Company holds 0.0000090% of ownership interest, totaling 66 shares, amounting to Baht 22,220.00 (December 31, 2015: the Company holds 0.00013% of ownership interest, totaling 66 shares, amounting to Baht 22,220.00).

15.3 Movements in other long-term investments are as follows:

	Consolidated financial statements 2016 2015						
			2016	2015			
Balance as at January 1	1,969.13	1,969.13	7.39	7.39			
- Additional investments Balance as at December 31	236.75 2,205.88	- 1,969.13	- 7.39	- 7.39			

16. Investment Properties

Details of investment properties are as follows:

Unit: Million Baht

Consolidated financial statements

	Buildings and building Land improvements		Total
Cost			
As at January 1, 2016	5,204.67	2,308.50	7,513.17
- Additions	7.85	26.64	34.49
- Reclassifications	-	12.56	12.56
- Disposals	(0.50)	(4.02)	(4.52)
As at December 31, 2016	5,212.02	2,343.68	7,555.70
Accumulated depreciation As at January 1, 2016		(871.20)	(871.20)
	-	(871.20) (104.77)	(871.20)
 Depreciation for the year Reclassifications 	-	(104.77)	(104.77)
- Disposals	-	2.30	2.30
As at December 31, 2016	-	(973.80)	(973.80)
Allowance for impairment			
As at January 1, 2016	(354.35)	-	(354.35)
As at December 31, 2016	(354.35)	-	(354.35)
Net book value			
As at December 31, 2015	4,850.32	1,437.30	6,287.62
As at December 31, 2016	4,857.67	1,369.88	6,227.55

16. Investment Properties (Continued)

Unit: Million Baht

Separate financial statements

	Land	Buildings and building improvements	Total
Cost			
As at January 1, 2016	3,574.41	467.63	4,042.04
- Additions		3.23	3.23
- Reclassifications	_	12.56	12.56
- Disposals	_	(3.13)	(3.13)
As at December 31, 2016	3,574.41	480.29	4,054.70
			.,
Accumulated depreciation			
As at January 1, 2016	-	(199.51)	(199.51)
- Depreciation for the year	-	(17.17)	(17.17)
- Reclassifications	-	(0.13)	(0.13)
- Disposals	-	1.67	1.67
As at December 31, 2016	-	(215.14)	(215.14)
Net book value			
As at December 31, 2015	3,574.41	268.12	3,842.53
As at December 31, 2016	3,574.41	265.15	3,839.56

17. Property, Plant and Equipment

Detail of property, plant and equipment are as follows:

Unit: Million Baht

	Land	Buildings and building improvements	Machinery and equipment	Exploration and production properties	Other assets	Construction in progress	Total
Cost							
As at January 1, 2016	31,069.00	238,685.22	810,411.63	906,736.85	21,551.73	163,846.46	2,172,300.89
- Additions	2,058.92	763.75	4,017.41	39,803.63	1,084.59	61,340.46	109,068.76
- Borrowing costs	-	-	-	-	-	2,807.53	2,807.53
- Reclassifications	2,689.22	37,393.72	83,319.72	2,291.09	1,090.91	(122,626.14)	4,158.52
- Disposals	(12.07)	(542.32)	(6,790.80)	(17,765.49)	(685.97)	(248.18)	(26,044.83)
- Currency translation differences	(14.25)	(115.69)	(463.16)	(6,124.16)	(11.25)	(146.72)	(6,875.23)
As at December 31, 2016	35,790.82	276,184.68	890,494.80	924,941.92	23,030.01	104,973.41	2,255,415.64
Accumulated depreciation							
As at January 1, 2016	-	(129,632.44)	(342,744.96)	(519,651.56)	(12,491.54)	-	(1,004,520.50)
- Depreciation for the year	-	(10,968.21)	(37,561.30)	(71,071.46)	(2,169.00)	-	(121,769.97)
- Reclassifications	-	155.63	(706.89)	-	(2.00)	-	(553.26)
- Disposals	-	387.26	5,816.46	8,389.46	500.94	-	15,094.12
- Currency translation differences	-	42.54	179.88	2,739.64	8.36	-	2,970.42
As at December 31, 2016	-	(140,015.22)	(375,016.81)	(579,593.92)	(14,153.24)	-	(1,108,779.19)

Consolidated financial statements

17. Property, Plant and Equipment (Continued)

Unit: Million Baht

	Land	Buildings and building improvements	Machinery and equipment	Exploration and production properties	Other assets	Construction in progress	Total
Allowance for impairment of assets							
As at January 1, 2016	(214.38)	(203.00)	(2,426.68)	(43,711.35)	(12.29)	(2,535.45)	(49,103.15)
- Loss on impairment (Note 21)	-	(0.71)	(0.55)	(1,636.35)	-	(42.89)	(1,680.50)
- Reversal of loss on impairment							
(Note 21)	4.70	5.80	33.56	-	-	109.07	153.13
- Disposals	-	-	690.68	1,207.04	12.01	204.72	2,114.45
- Reclassifications	-	-	-	(175.57)	-	(104.66)	(280.23)
- Currency translation differences	-	1.52	44.03	327.12	0.28	16.86	389.81
As at December 31, 2016	(209.68)	(196.39)	(1,658.96)	(43,989.11)	-	(2,352.35)	(48,406.49)
Net book value							
As at December 31, 2015	30,854.62	108,849.78	465,239.99	343,373.94	9,047.90	161,311.01	1,118,677.24
As at December 31, 2016	35,581.14	135,973.07	513,819.03	301,358.89	8,876.77	102,621.06	1,098,229.96

Consolidated financial statements

As at December 31, 2016, the Group had pledged assets amounting to Baht 45,363.19 million.

17. Property, Plant and Equipment (Continued)

Unit: Million Baht

Separate financial statements

	Land	Buildings and building improvements	Machinery and equipment	Other assets	Construction in progress	Total
Cost						
As at January 1, 2016	8,595.14	39,071.27	329,012.29	13,277.50	46,271.34	436,227.54
- Additions	187.58	289.51	2,451.70	560.40	18,894.81	22,384.00
- Borrowing costs	-		-		1,055.04	1,055.04
- Reclassifications	2,690.29	2,428.62	21,630.03	817.48	(25,210.55)	2,355.87
- Disposals	2,030.23	(218.87)	(4,134.01)	(158.43)		(4,511.31)
As at December 31, 2016	11,473.01	41,570.53	348,960.01	14,496.95	41,010.64	457,511.14
10 at 2000mbor 01, 2010		11,070.00	0.10,000.01		11,010.01	107,011.11
Accumulated depreciation						
As at January 1, 2016	-	(16,010.44)	(134,261.77)	(8,744.57)	-	(159,016.78)
- Depreciation for the year	-	(1,684.41)	(14,058.43)	(1,419.70)	-	(17,162.54)
- Reclassifications	-	(2.30)	(393.16)	(0.25)	-	(395.71)
- Disposals	-	192.47	3,786.67	111.45	-	4,090.59
As at December 31, 2016	-	(17,504.68)	(144,926.69)	(10,053.07)	-	(172,484.44)
Allowance for impairment of assets						
As at January 1, 2016	(22.07)	(4.70)	(681.67)	-	-	(708.44)
- Loss on impairment						
(Note 21)	-	(0.16)	-	-	-	(0.16)
- Reversal of loss on						
impairment (Note 21)	4.70	4.70	8.83	-	-	18.23
- Disposals	-	-	665.25	-	-	665.25
As at December 31, 2016	(17.37)	(0.16)	(7.59)	-	-	(25.12)
Net book value						
As at December 31, 2015	8,573.07	23,056.13	194,068.85	4,532.93	46,271.34	276,502.32
As at December 31, 2016	11,455.64	24,065.69	204,025.73	4,443.88	41,010.64	285,001.58

During the year, borrowing costs were capitalized as a part of costs of property, plant and equipment. The Group used capitalization rates ranging from 1.50% - 5.75% (2015: 3.00% - 5.75%).

Property, Plant and Equipment (Continued) 17.

As at December 31, 2016 and 2015, details of other assets include vehicles and natural gas pipeline acquired under finance leases which were recorded as machinery and equipment are as follows:

Unit: Million Baht

	Consolidated financial statements				Sepa financial s	
	2016	2015	2016	2015		
Cost	10,780.35	10,919.11	10,007.25	10,003.85		
Less Accumulated depreciation	(4,109.59)	(3,695.33)	(3,719.78)	(3,170.95)		
Net book value	6,670.76	7,223.78	6,287.47	6,832.90		

Intangible Assets 18.

Details of intangible assets are as follows:

Unit: Million Baht

Consolidated financial statements

	Computer software	Right of use	Exploration & evaluation assets	Other Intangible assets	Total
Cost					
As at January 1, 2016	16,943.76	30,567.99	170,606.65	9,273.83	227,392.23
- Business acquisition	118.87	-	-	-	118.87
- Additions	886.30	1,231.36	650.40	579.85	3,347.91
- Reclassifications	577.83	682.04	(2,291.09)	(478.07)	(1,509.29)
- Disposals	(82.28)	(32.63)	(526.68)	(8.42)	(650.01)
- Currency translation differences	(20.67)	(60.79)	577.82	(21.85)	474.51
As at December 31, 2016	18,423.81	32,387.97	169,017.10	9,345.34	229,174.22

18. Intangible Assets (Continued)

Unit: Million Baht

	Computer software	Right of use	Exploration & evaluation assets	Other Intangible assets	Total
Accumulated amortization	(7.645.60)	(11,450,01)		(4.0.40.00)	(00.150.00)
As at January 1, 2016	(7,645.38)	(11,456.61)	-	(4,048.09)	(23,150.08)
- Amortization for the year	(1,729.62)	(1,110.11)	-	(389.58)	(3,229.31)
- Reclassifications	(2.27)	10.01	-	1.91	9.65
- Disposals	53.03	-	-	31.51	84.54
- Currency translation differences	13.58	20.86	-	3.81	38.25
As at December 31, 2016	(9,310.66)	(12,535.85)	-	(4,400.44)	(26,246.95)
Allowance for impairment of assets					
As at January 1, 2016	(11.82)	(122.02)	(40,954.03)	-	(41,087.87)
- Loss on impairment (Note 21)	-	(319.36)	(50.85)	-	(370.21)
- Reversal of loss on impairment					
(Note 21)	-	32.63	-	-	32.63
- Reclassifications	-	-	175.57	-	175.57
- Disposals	11.56	-	-	-	11.56
- Currency translation differences	0.26	(1.08)	(944.03)	-	(944.85)
As at December 31, 2016	-	(409.83)	(41,773.34)	-	(42,183.17)
Net book value					
As at December 31, 2015	9,286.56	18,989.36	129,652.62	5,225.74	163,154.28
As at December 31, 2016	9,113.15	19,442.29	127,243.76	4,944.90	160,744.10

Consolidated financial statements

18. Intangible Assets (Continued)

Unit: Million Baht

Separate financial statements

	Computer software	Right of use	Other Intangible assets	Total
Cost				
As at January 1, 2016	4,665.38	19,732.16	52.50	24,450.04
- Additions	240.94	0.07	15.00	256.01
- Reclassifications	421.93	219.79	-	641.72
- Disposals	(3.39)	-	-	(3.39)
As at December 31, 2016	5,324.86	19,952.02	67.50	25,344.38
Accumulated amortization				
As at January 1, 2016	(2,522.91)	(7,280.35)	(2.66)	(9,805.92)
- Amortization for the year	(667.77)	(522.87)	(2.85)	(1,193.49)
- Reclassifications	0.20	-	-	0.20
- Disposals	2.90	-	-	2.90
As at December 31, 2016	(3,187.58)	(7,803.22)	(5.51)	(10,996.31)
Net book value				
As at December 31, 2015	2,142.47	12,451.81	49.84	14,644.12
As at December 31, 2016	2,137.28	12,148.80	61.99	14,348.07

19. Mining Properties

Movements of mining properties are as follows:

	Unit: Million Baht Consolidated financial statements
Cost	
As at January 1, 2016	63,116.66
- Additions	581.76
- Reclassifications	0.06
- Disposals	(22.53)
- Currency translation differences	(448.28)
As at December 31, 2016	63,227.67
Accumulated amortization	
As at January 1, 2016	(28,395.30)
- Amortization for the year	(1,523.72)
- Currency translation differences	179.52
As at December 31, 2016	(29,739.50)
Allowance for impairment of assets	
As at January 1, 2016	(14,786.41)
- Loss on impairment (Note 21)	(126.56)
- Currency translation differences	103.71
As at December 31, 2016	(14,809.26)
Net book value	
As at December 31, 2015	19,934.95
As at December 31, 2016	18,678.91

20. Goodwill

Movements of goodwill are as follows:

		Unit: Million Baht	
	Consolidated financial statements		
	2016	2015	
Net book value as at January 1	51,408.13	56,987.28	
- Business acquisition	(15.98)	29.94	
- Loss on impairment (Note 21)	(336.17)	(9,644.17)	
- Currency translation differences	(277.81)	4,035.08	
Net book value as at December 31	50,778.17	51,408.13	

21. Impairment of Assets

The Group performs an impairment test on assets whenever events or circumstances indicate that the carrying amount of the assets may exceed its recoverable amount, with the exception of intangible assets with an indefinite useful life or not yet available for use and goodwill from business combination for which an impairment test is required annually or when the indication exists. A loss on impairment is recognized when the recoverable amount of an asset is lower than its carrying amount. The recoverable amount is the higher of the asset's fair value less cost to sell and its value in use.

The loss on impairment of assets excluding the goodwill may be reversed if the estimates and assumptions applied in determining the recoverable amount change.

During the year 2016, the Group performed impairment tests since there are the significant factor indicating that the assets may be impaired such as the decrease in the estimated petroleum reserve, risks from non-operating investments that or delay projects which not along with the plan, and the low opportunity to sell of the business.

In determining recoverable amount, the Group applied significant estimates and assumptions relating to matters such as petroleum and coal reserves, oil and petrochemical prices, coal prices, foreign exchange rates, discount rates, capital expenditure, and operating expenditure.

21. Impairment of Assets (Continued)

During the year ended December 31, 2016, the Group recognized loss on impairment of assets in statement of income follows:

		Unit: Million Baht
	Consolidated financial statement	Separate financial statement
Investment in subsidiaries (Note 13.7.3)	-	838.06
Investment in joint ventures (Note 13.7.1)	620.51	-
Investment in associates (Note 13.7.2)	3,994.64	-
Property, plant and equipment (reversal) (Note 17)	1,527.37	(18.07)
Exploration and evaluation assets (note 18)	50.85	-
Intangible assets (Note 18)	286.73	-
Mine properties (Note 19)	126.56	-
Goodwill (Note 20)	336.17	-
Other assets (reversal)	260.17	(26.54)
Total	7,203.00	793.45

22. Income Taxes and Deferred Taxes

Applicable tax rates for the Group are as follows:

	Rates (%)
Detroloum income tax on netroloum huginess in Theiland	
Petroleum income tax on petroleum business in Thailand	
pursuant to the Petroleum Income Tax Act, B.E. 2514 and B.E. 2532	50
Income tax under the Revenue Code of the Company and subsidiaries	20
Corporate income tax in foreign countries	5 - 50
Corporate Income tax from the Petroleum business in the Thai-Malaysia co-development area	
under the Petroleum Income Tax Act (No. 5) B.E. 2541	0 - 20
Petroleum resource rent tax in Australia	40

22.1 Income taxes recognized in the consolidated and the separate statements of income for the years ended December 31, 2016 and 2015 are as follows:

		lidated tatements	Unit: Million Baht Separate financial statements			
	2016	2015	2016	2015		
Current tax:						
Current tax	30,635.96	33,476.44	8,885.11	5,196.03		
Adjustments in respect of current						
tax of previous year	1,146.50	(424.44)	898.99	(58.45)		
	31,782.46	33,052.00	9,784.10	5,137.58		
Deferred tax:						
Change in temporary differences	(3,442.61)	(13,899.87)	(711.33)	(1,134.42)		
Tax effect of currency translation						
on tax base	(1,746.78)	5,919.30	-	-		
	(5,189.39)	(7,980.57)	(711.33)	(1,134.42)		
Total	26,593.07	25,071.43	9,072.77	4,003.16		

22.2 Movements in deferred taxes are as follows:

Unit: Million Baht

	Net balance as at		Other comprehensive		Currency	As at I	December 31	, 2016
	January 1, 2016	Profit (Loss)	income (loss)	Business acquisition	translation differences	Net balance	Deferred tax assets	Deferred tax liabilities
Property, plant and equipment	(54,229.89)	(7,423.02)	-	-	(35.45)	(61,688.36)	8,780.45	(70,468.81)
Intangible assets	(9,721.23)	9,621.30	-	(34.29)	(3.01)	(137.23)	230.76	(367.99)
Investments	61.46	54.86	-	-	-	116.32	116.32	-
Available-for-sale investments	(877.45)	-	(1,001.66)	-	(0.10)	(1,879.21)	0.08	(1,879.29)
Trade and other accounts receivable	(2,098.42)	(76.46)	-	-	(1.16)	(2,176.04)	416.33	(2,592.37)
Inventories	20.69	130.19	-	-	(0.87)	150.01	151.49	(1.48)
Loans	268.72	(44.12)	-	-	-	224.60	239.26	(14.66)
Employee benefit obligations	5,144.22	211.31	230.89	-	(19.92)	5,566.50	5,567.20	(0.70)
Provision for decommissioning costs	15,818.31	3,294.16	-	-	474.76	19,587.23	19,940.65	(353.42)
Cumulative loss carried forward	5,754.54	(2,643.27)	407.88	-	(84.94)	3,434.21	3,434.21	-
Petroleum resource rent tax in Australia	2,502.02	-	-	-	(17.89)	2,484.13	2,484.13	-
Tax effect of currency translation on tax base	(5,345.55)	1,747.39	-	-	69.36	(3,528.80)	253.28	(3,782.08)
Others	2,356.96	317.05	1,806.09	-	(72.65)	4,407.45	5,714.66	(1,307.21)
Total before set-off of taxes	(40,345.62)	5,189.39	1,443.20	(34.29)	308.13	(33,439.19)	47,328.82	(80,768.01)
Set-off of taxes						-	(36,747.62)	36,747.62
Net deferred tax assets (liabilities)						(33,439.19)	10,581.20	(44,020.39)

Consolidated financial statements

22.2 Movements in deferred taxes are as follows: (Continued)

Unit: Million Baht

	Net balance		Other		Cimenau	As at December 31		er 31, 2015
	as at January 1, 2015	Profit (Loss)	comprehensive income (loss)	Business acquisition	Currency translation differences	Net balance	Deferred tax assets	Deferred tax liabilities
	(61.005.60)	11 007 00			(5.001.40)	(54,000,00)	0.045.04	(00.175.50
Property, plant and equipment	(61,205.66)	11,997.20	-	-	(5,021.43)	(54,229.89)		(63,175.53
Intangible assets	(10,389.54)	1,634.00	-	(56.90)	(908.79)	(9,721.23)	244.62	(9,965.85
Investments	833.00	(762.35)	-	-	(9.19)	61.46	61.46	-
Available-for-sale investments	(1,044.82)	-	167.20	-	0.17	(877.45)	0.51	(877.96
Trade and other accounts receivable	(3,034.77)	949.76	-	-	(13.41)	(2,098.42)	416.69	(2,515.11
Inventories	71.27	(52.53)	-	-	1.95	20.69	141.52	(120.83
Loans	644.56	(375.61)	-	-	(0.23)	268.72	275.52	(6.80
Employee benefit obligations	4,712.56	325.16	(106.87)	-	213.37	5,144.22	5,144.22	-
Provision for decommissioning costs	8,146.93	6,510.49	-	-	1,160.89	15,818.31	15,818.31	-
Cumulative loss carried forward	12,020.70	(6,465.42)	-	-	199.26	5,754.54	5,754.54	-
Petroleum resource rent tax in Australia	2,689.38	(605.85)	-	-	418.49	2,502.02	2,502.02	-
Tax effect of currency translation on tax base	589.56	(5,919.30)	-	-	(15.81)	(5,345.55)	214.00	(5,559.55
Others	2,696.92	745.02	(1,319.92)	-	234.94	2,356.96	5,480.14	(3,123.18
Total before set-off of taxes	(43,269.91)	7,980.57	(1,259.59)	(56.90)	(3,739.79)	(40,345.62)	44,999.19	(85,344.81
Set-off of taxes						-	(34,563.05)	34,563.05
Net deferred tax assets (liabilities)						(40,345.62)	10,436.14	(50,781.76

Consolidated financial statements

Unit: Million Baht

Separate financial statements

	Net balance		Other		Other As at December 31, 2016			
	January 1, 2016	Profit (Loss)	income (loss)	Net balance	Deferred tax assets	Deferred tax liabilities		
Property, plant and equipment	(346.59)	(213.74)	-	(560.33)	-	(560.33)		
Intangible assets	141.71	(5.20)	-	136.51	136.51	-		
Investments	60.48	54.87	-	115.35	115.35	-		
Available-for-sale investments	(877.96)	-	(1,001.49)	(1,879.45)	-	(1,879.45)		
Trade and other accounts receivable	(682.04)	(90.37)	-	(772.41)	410.98	(1,183.39)		
Inventories	60.26	1.48	-	61.74	61.74	-		
Loans	275.53	(36.28)	-	239.25	239.25	-		
Employee benefit obligations	1,352.12	103.02	172.60	1,627.74	1,627.74	-		
Others	(78.34)	897.55	-	819.21	1,147.14	(327.93)		
Total before set-off of taxes	(94.83)	711.33	(828.89)	(212.39)	3,738.71	(3,951.10)		
Set-off of taxes				-	(3,738.71)	3,738.71		
Net deferred tax assets (liabilities)				(212.39)	-	(212.39)		

22.2 Movements in deferred taxes are as follows: (Continued)

Unit: Million Baht

Separate financial statements

	Net balance As at December 3			December 31	31, 2015	
	January 1, 2015	Profit (Loss)	comprehensive income	Net balance	Deferred tax assets	Deferred tax liabilities
Property, plant and equipment	(118.75)	(227.84)	_	(346.59)	-	(346.59)
Intangible assets	145.43	(3.72)	-	141.71	141.71	-
Investments	2.83	57.65	-	60.48	60.48	-
Available-for-sale investments	(1,044.82)	-	166.86	(877.96)	-	(877.96)
Trade and other accounts receivable	(1,387.55)	705.51	-	(682.04)	412.29	(1,094.33)
Inventories	61.42	(1.16)	-	60.26	60.26	-
Loans	(36.29)	311.82	-	275.53	275.53	-
Employee benefit obligations	1,200.83	88.13	63.16	1,352.12	1,352.12	-
Others	(282.37)	204.03	-	(78.34)	248.51	(326.85)
Total before set-off of taxes	(1,459.27)	1,134.42	230.02	(94.83)	2,550.90	(2,645.73)
Set-off of taxes				-	(2,550.90)	2,550.90
Net deferred tax assets (liabilities)				(94.83)	-	(94.83)

23. Advance Payments for Gas Purchases

Movements of advance payments for gas purchases are as follows:

				Unit: Million Baht
	Consolidated financial statements		Sepa financial s	arate tatements
	2016	2015	2016	2015
Balance as at January 1	2,644.25	4,512.79	3,069.55	5,253.77
- Make-up Right	(1,114.57)	(1,868.54)	(1,292.09)	(2,184.22)
Balance as at December 31	1,529.68	2,644.25	1,777.46	3,069.55

The Company made advance payments for some gas that cannot take-up as committed gas purchases according to the established minimum volumes in the Gas Sales Agreements (Take-or-Pay). The Company has the right to take certain volumes of prepaid gas (Make-up Right) in subsequent years, with no maturity period.

As at December 31, 2016, advance payments for gas purchases comprised the balance of advance payments made for gas purchases from the Yadana gas fields in Myanmar, irrespective of take-up in 2000.

24. Other Non-current Assets

Other non-current assets as at December 31, 2016 and 2015 are as follows:

				Unit: Million Baht		
	Consolidated financial statements					arate tatements
	2016 2015		2016	2015		
Retention and refundable deposits	724.41	881.53	95.36	78.09		
Advances	27,649.97	12,236.49	3,214.61	3,258.56		
Deferred compensation	593.91	661.79	-	-		
Others	17,114.69	12,692.34	2,567.74	3,696.73		
Total	46,082.98	26,472.15	5,877.71	7,033.38		

25. Bank Overdrafts and Short-term Loans from Financial Institutions

As at December 31, 2016, the bank overdrafts and short-term loans from financial institutions bear interest at rates ranging from 1.00% to 5.25% per annum (December 31, 2015: interest at rates range from 0.53% to 5.25% per annum).

26. Other Current Liabilities

Details of other current liabilities as at December 31, 2016 and 2015 are as follows:

				Unit: Million Baht	
	Consolidated financial statements				arate tatements
	2016	2015	2016	2015	
Undue output VAT	2,837.80	3,330.19	2,494.78	2,923.48	
Provision for remuneration for					
the renewal of petroleum production	1,965.01	1,919.76	-	-	
Others	4,173.60	2,397.48	895.35	883.08	
Total	8,976.41	7,647.43	3,390.13	3,806.56	

27. Long-term Loans

Details of long-term loans as at December 31, 2016 and 2015 are as follows:

Current portion of long-term loans

				Unit: Million Baht
		lidated tatements	Sepa financial s	
	2016 2015		2016	2015
Loans - Baht currency	17,970.11	19,309.05	4,143.52	5,429.02
Loans - foreign currencies	2,561.11	2,251.98	-	-
Debentures - Baht currency	22,820.12	32,128.00	8,136.00	31,070.00
Debentures - foreign currencies	19,775.03	-	11,208.06	-
Liabilities under finance leases	929.32	929.32	652.23	649.49
Total	64,055.69	54,618.35	24,139.81	37,148.51

Long-term loans

				Unit: Million Baht
	Consolidated financial statements		Separate financial statements	
	2016 2015		2016	2015
Loans - Baht currency	78,668.68	88,421.46	7,014.51	11,158.03
Loans - foreign currencies	51,583.34	50,261.79	18,321.48	18,202.07
Debentures - Baht currency	206,065.19	228,874.15	128,297.47	136,433.47
Debentures - foreign currencies	177,048.98	204,074.61	51,715.68	62,951.96
Liabilities under finance leases	5,900.71	6,583.36	5,554.54	6,149.32
Total	519,266.90	578,215.37	210,903.68	234,894.85

As at December 31, 2016, Baht 1,000.00 million of the Company's loans are secured by the Ministry of Finance (December 31, 2015: Baht 3,000.00 million).

27. Long-term Loans (Continued)

Long-term loans, including the current portion, outstanding as at December 31, 2016 and 2015 can be classified by types of interest rate as follows:

				Unit: Million Baht	
	Consolidated financial statements 2016 2015		Separate financial statements		
			2016	2015	
Floating interest rate	137,231.35	149,075.10	21,260.77	24,738.68	
Fixed interest rate	446,091.24	483,758.62	213,782.72	247,304.68	
Total	583,322.59	632,833.72	235,043.49	272,043.36	

Interest rates charged on long-term loans as at December 31, 2016 and 2015 are as follows:

	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
Loans - Baht currency	0.50% - 7.83%	0.50% - 7.83%	0.50% - 7.83%	0.50% - 7.83%
Loans - Foreign currencies				
- US dollar	1.85% - 17.00%	1.16% - 2.68%	2.54%	2.32%
- EURO	2.50% - 6.00%	1.80% - 6.00%	-	-
- Japanese Yen	1.50% - 4.45%	4.45%	4.45%	4.45%
Debentures - Baht currency	3.41% - 6.58%	3.41% - 6.58%	3.50% - 6.58%	3.50% - 6.58%
Debentures - Foreign currencies				
- US dollar	3.38% - 6.51%	3.38% - 6.38%	3.38% - 5.88%	3.38% - 5.88%
- Japanese Yen	2.71%	2.71%	2.71%	2.71%
Liabilities under finance leases	3.76% - 12.00%	3.76% - 9.00%	3.76% - 4.65%	3.76% - 4.65%

27.1 Loans

Movements of loans in Baht currency and foreign currencies for year ended December 31, 2016 are as follows:

Unit: Million

		Currency				
	Baht	USD	EURO	JPY	in Baht equivalent	
Balance as at January 1, 2016	107,730.51	1,194.91	60.38	23,000.00	160,244.28	
- Additions	21,670.88	0.20	102.30	3,160.37	26,692.83	
- Repayments	(32,760.83)	(42.53)	(36.36)	-	(35,517.54)	
- (Gain) loss on exchange rates	6.94	-	-	-	(132.00)	
- Currency translation differences	-	-	-	-	(395.84)	
- Others	(8.71)	(3.07)	-	0.57	(108.49)	
Balance as at December 31, 2016	96,638.79	1,149.51	126.32	26,160.94	150,783.24	
- Current portion	(17,970.11)	(60.23)	(10.58)	-	(20,531.22)	
Long-term loans	78,668.68	1,089.28	115.74	26,160.94	130,252.02	

Consolidated financial statements

Unit: Million

Separate financial statements

	Currency			
Baht	USD	JAL	in Baht equivalent	
16,587.05	310.00	23,000.00	34,789.12	
(5,429.02)	-	-	(5,429.02)	
-	-	-	119.41	
11,158.03	310.00	23,000.00	29,479.51	
(4,143.52)	-	-	(4,143.52)	
7,014.51	310.00	23,000.00	25,335.99	

Balance as at January 1, 2016

- Repayments
- Loss on exchange rates
- Balance as at December 31, 2016
- Current portion
- Long-term loans

Loans - Baht currency

As at December 31, 2016, details of long term loans from financial institutions of the Company in Baht currency are as follows:

Currency	Principal (unit: million)	Interest rate percent (per annum)	Repayment terms
Baht Baht	6,000 5,000	Highest rate on 6-month-fixed deposit plus margin 6M THBFIX plus margin	Principal is repayable every 6 months, totalling 12 instalments, commencing in September 2011. Principal is repayable every 6 months, totalling 7 instalments, commencing in June 2016.
Baht	7,000	6M THBFIX plus margin	Principal is repayable every 6 months, totalling 7 instalments, commencing in June 2016.

Loans - Baht currency (Continued)

As at December 31, 2016, details of long term loans from financial institutions of the subsidiaries in Baht currency are as follows:

Currency	Principal (unit: million)	Interest rate percent (per annum)	Repayment terms
Baht	600	MLR minus discount	Principal is repayable every 3 months, totalling 29 instalments, commencing in November 2010.
Baht	1,500	MLR minus discount	Principal is repayable every 6 months, totalling 16 instalments, commencing in September 2012.
Baht	324	MLR minus discount	Principal is repayable every month, totalling 60 instalments, commencing in April 2012.
Baht	228	MLR minus discount	Principal is repayable every month, totalling 60 instalments, commencing in January 2013.
Baht	365	MLR minus discount	Principal is repayable every month, totalling 84 instalments, commencing in June 2014.
Baht	365	MLR minus discount	Principal is repayable every month, totalling 84 instalments, commencing in October 2014.
Baht	300	MLR minus discount	Principal is repayable every 6 months, totalling 12 instalments, commencing in September 2015.
Baht	1,200	6M FDR plus margin	Principal is repayable every 6 months, totalling 12 instalments, commencing in June 2014.
Baht	1,800	6M FDR plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in June 2015.
Baht	3,875	THBFIX plus margin	Principal is repayable every 3 months, totalling 31 instalments, commencing in June 2016.
Baht	3,875	THBFIX plus margin	Principal is repayable every 3 months, totalling 31 instalments, commencing in June 2016.
Baht	420	MLR minus discount	Principal is repayable every month, totalling 90 instalments, commencing in October 2016.
Baht	141	FDR plus margin	Principal is repayable every 6 months, totalling 8 instalments, commencing in June 2017.

Loans - Baht currency (Continued)

As at December 31, 2016, details of long term loans from financial institutions of the subsidiaries in Baht currency are as follows: (Continued)

Currency	Principal (unit: million)	Interest rate percent (per annum)	Repayment terms
Baht	500	6M THBFIX plus margin	Principal is repayable in full after 5-year maturity.
Baht	5,000	6M FDR plus margin	Principal is repayable every 3 months, totalling 38 instalments, commencing in March 2011.
Baht	3,500	6M FDR plus margin	Principal is repayable every 6 months, totalling 20 instalments, commencing in February 2009.
Baht	3,600	6M FDR plus margin	Principal is repayable every 6 months, totalling 20 instalments, commencing in December 2011.
Baht	3,400	6M FDR plus margin	Principal is repayable every 6 months, totalling 20 instalments, commencing in September 2012.
Baht	5,510	6M FDR plus margin	Principal is repayable every 6 months, totalling 20 instalments, commencing in June 2012.
Baht	10,000	6M FDR plus margin	Principal is repayable every 6 months, totalling 25 instalments, commencing in December 2017.
Baht	169	Fixed rate	Principal is repayable every 6 months, totalling 29 instalments, commencing in June 2017.
Baht	5,400	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in June 2012.
Baht	4,600	6M THBFIX plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in June 2012.
Baht	3,700	3M THBFIX plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in July 2015.
Baht	10,000	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 12 instalments, commencing in June 2016.
Baht	3,000	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in September 2017.

Loans - Baht currency (Continued)

As at December 31, 2016, details of long term loans from financial institutions of the subsidiaries in Baht currency are as follows: (Continued)

Currency	Principal (unit: million)	Interest rate percent (per annum)	Repayment terms
Baht	4,000	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 12 instalments, commencing in December 2018.
Baht	5,000	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in June 2020.
Baht	15,000	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in the 42 nd month
			from the date of the first draw down.
Baht	2,500	6M THBFIX plus margin	Principal is repayable every 12 months, totalling 3 instalments, commencing in July 2016.
Baht	7,500	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 15 instalments, commencing in August 2011.
Baht	3,000	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in July 2015.
Baht	7,000	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 15 instalments, commencing in September 2013.
Baht	3,000	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 14 instalments, commencing in March 2014.
Baht	3,000	6M THBFIX plus margin	Principle is repayable at the end of contract, in June 2020.
Baht	6,000	Highest rate on 6-month-fixed deposit plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in March 2016.
Baht	1,300	Fixed rate	Principal is repayable every 3 months, totalling 16 instalments, commencing in September 2016.
Baht	500	Fixed rate	Principal is repayable every 3 months, totalling 33 instalments, commencing in June 2019.

Loans – Foreign currency

As at December 31, 2016, details of long term loans from financial institutions of the Company in foreign currency are as follows:

Currency	Principal (unit: million)	Interest rate percent (per annum)	Repayment terms
JPY	23,000	Fixed rate	Principal is repayable at the end of contract, in April 2036.
USD	310	6M BIBOR plus margin	Principal is repayable at the end of contract, in March 2018.

Loans – Foreign currency (Continued)

As at December 31, 2016, details of long term loans from financial institutions of the subsidiaries in foreign currency are as follows:

Currency	Principal (unit: million)	Interest rate percent (per annum)	Repayment terms
USD	500	LIBOR plus margin	Principal is repayable at the end of contract, in November 2017
			(In March 2016, the subsidiary has extended the loan maturity from November 2017
			to March 2021).
USD	75	LIBOR plus margin	Principal is repayable at the end of contract, in December 2017
			(In March 2016, the subsidiary has extended the loan maturity from December 2017
			to March 2021).
JPY	8,503	JPY-LIBOR plus margin	Principal is repayable every 6 months, totalling 37 instalments, commencing in May 2018.
USD	100	LIBOR plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in July 2015.
USD	75	LIBOR plus margin	Principal is repayable at the end of contract, in January 2018.
USD	100	6M LIBOR plus margin	Principal is repayable every 6 months, totalling 10 instalments, commencing in March 2016.

The Group has entered into the contracts to hedge and to manage its financial risks arising from foreign exchange rate and the fluctuation of interest rate on long-term loans as mentioned in Note 40.2 to Note 40.4.

27.2 Debentures

Movements of debentures in Baht currency and foreign currencies for the year ended December 31, 2016 are as follows:

Unit: Million

Consolidated financial statements

	Total		
Baht USD JPY		in Baht equivalent	
261,002.15	5,335.39	36,000.00	465,076.76
(32,128.00)	(176.55)	-	(38,358.61)
190.54	-	-	(422.83)
(190.80)	-	-	(722.05)
11.42	3.34	-	136.05
228,885.31	5,162.18	36,000.00	425,709.32
(22,820.12)	(238.00)	(36,000.00)	(42,595.15)
206,065.19	4,924.18	-	383,114.17

Unit: Million

Separate financial statements

	Total		
Baht	t USD JPY		in Baht equivalent
167,503.47	1,435.79	36,000.00	230,455.43
(31,070.00)	-	-	(31,070.00)
-	-	-	(55.54)
-	0.66	-	27.32
136,433.47	1,436.45	36,000.00	199,357.21
(8,136.00)	-	(36,000.00)	(19,344.06)
128,297.47	1,436.45	-	180,013.15

Balance as at January 1, 2016

- Repayments
- (Gain) Loss on exchange rates
- Currency translation differences

- Others

Balance as at December 31, 2016

Balance as at January 1, 2016

Balance as at December 31, 2016

- Gain on exchange rates

- Repayments

- Current portion Long-term debentures

- Others

- Current portion
- Long-term debentures

Debentures - Baht currency

As at December 31, 2016, the details of unsecured and senior debentures in Baht currency of the Company are as follows:

Currency	Credit facilities (unit: million)	Par value (per share)	Period (years)	Interest rate percent (per annum)	Repayment terms
currency		(per share)	(years)	(per annam)	hepdyment terms
Baht	2,636	1,000	7	4.1	Interest is repayable every 6 months and maturity in February 2017.
Baht	1,500	1,000	10	5.87	Interest is repayable every 6 months and maturity in December 2017.
Baht	4,000	1,000	7 years 15 days	Year 1 - 4 : 3.20	Interest is repayable every 6 months and maturity in December 2017.
				Year 5 - 6 : 4.20	
				Year 7 : 5.00	
Baht	500	1,000	11	5.91	Interest is repayable every 6 months and maturity in December 2018.
Baht	18,049	1,000	6 years 9 months	Year 1 - 4 : 4.00	Interest is repayable every 6 months and maturity in November 2018.
			19 days	Year 5 - 6 : 4.40	
				Year 7 : 5.50	
Baht	1,000	1,000	15	5.9	Interest is repayable every 6 months and maturity in May 2019.
Baht	15,000	1,000	6 years 11 months	Year 1 - 4 : 4.10	Interest is repayable every 6 months and maturity in May 2019.
			24 days	Year 5 - 6 : 5.10	

Debentures - Baht currency (Continued)

As at December 31, 2016, the details of unsecured and senior debentures in Baht currency of the Company are as follows: (Continued)

Currency	Credit facilities (unit: million)	Par value (per share)	Period (years)	Interest rate percent (per annum)	Repayment terms
Baht	10,000	1,000	6 years 9 months	Year 1 - 4 : 4.10	Interest is repayable every 6 months and maturity in May 2019.
Baht	22,000	1,000	15 days 6 years 11 months 19 days	Year 5 - 6 : 5.10 4.75	Interest is repayable every 6 months and maturity in November 2020.
Baht	4,118	1,000	15	5.95	Interest is repayable every 6 months and maturity in August 2020.
Baht	1,030	1,000	15	6.53	Interest is repayable every 6 months and maturity in May 2021.
Baht	10,000	1,000	6 years 11 months	4	Interest is repayable every 6 months and maturity in November 2021.
Baht	4,200	1,000	6 years 27 days	3.5	Interest is repayable every 6 months and maturity in November 2021.
Baht	4,000	1,000	12	4.5	Interest is repayable every 6 months and maturity in February 2022.
Baht	10,000	1,000	10	6.58	Interest is repayable every 6 months and maturity in September 2023.

Debentures - Baht currency (Continued)

As at December 31, 2016, the details of unsecured and senior debentures with the debenture holders' early redemption right of the Company in Baht currency are as follows:

Currency	Credit facilities (unit: million)	Par value (per share)	Period (years)	Interest rate percent (per annum)	Repayment terms
Baht	15,000	1,000	15	Year 1 - 5 : 5.00 Year 6 - 8 : 6.20	Interest is repayable every 6 months and maturity in March 2024. (The debenture holders can early redeem at the end of 8 th years.)
Baht	9,400	1,000	15	Year 9 - 15 : 6.80 Year 1 - 5 : 4.25	Interest is repayable every 6 months and maturity in July 2024.
Built	5,100	1,000		Year 6 - 10 : 5.50 Year 11 - 15 : 5.75	(The debenture holders can early redemption at the end of 10 th years.)
Baht	4,000	1,000	100	5.9	Interest is repayable every 6 months and maturity in December 2110. (The debenture holders can early redemption at the end of the years 50 and 75 and other cases specified in the regulations the rights and obligations of the issuer and the debenture holders.)

Debentures - Baht currency (Continued)

As at December 31, 2016, the details of unsecured and senior debentures in Baht currency of the subsidiaries are as follows:

Currency	Credit facilities (unit: million)	Par value (per share)	Period (years)	Interest rate percent (per annum)	Repayment terms
Baht	2,000	1,000	3	3.41	Interest is payable every 6 months and maturity in March 2017.
Baht	3,000	1,000	5	4.13	Interest is payable every 6 months and maturity in March 2019.
Baht	3,000	1,000	7	4.61	Interest is payable every 6 months and maturity in March 2021.
Baht	7,000	1,000	10	4.84	Interest is payable every 6 months and maturity in March 2024.
Baht	3,000	1,000	12	4.80	Interest is payable every 6 months and maturity in April 2022.
Baht	7,500	1,000	15	5.05	Interest is payable every 6 months and maturity in March 2027.
Baht	2,500	1,000	5	3.99	Interest is payable every 6 months and maturity in March 2017.
Baht	3,000	1,000	10	5.29	Interest is payable every 6 months and maturity in July 2017.
Baht	5,000	1,000	5	4.76	Interest is payable every 6 months and maturity in August 2018.
Baht	4,746	1,000	3	3.96	Interest is payable every 6 months and maturity in May 2017.
Baht	3,364	1,000	5	4.5	Interest is payable every 6 months and maturity in May 2019.
Baht	6,890	1,000	7	4.96	Interest is payable every 6 months and maturity in May 2021.
Baht	2,800	1,000	10	5.5	Interest is payable every 6 months and maturity in October 2017.
Baht	1,942	1,000	10	5.5	Interest is payable every 6 months and maturity in June 2019.
Baht	10,000	1,000	7	4.5	Interest is payable every 6 months and maturity in August 2021.
Baht	2,500	1,000	15	4.625	Interest is payable every 6 months and maturity in March 2018.
Baht	5,000	1,000	10	4.8	Interest is payable every 3 months and maturity in May 2019.
Baht	8,200	1,000	5	3.91	Interest is payable every 6 months and maturity in June 2019.
Baht	11,400	1,000	15	4.82	Interest is payable every 6 months and maturity in June 2029.

Debentures - Foreign currency

As at December 31, 2016, the details of unsecured and senior debentures in foreign currency of the Company are as follows:

Currency	Credit facilities (unit: million)	Par value (per share)	Period (years)	Interest rate percent (per annum)	Repayment terms
JPY	36,000	100,000,000	10	2.71	Interest is payable every 6 months and maturity in June 2017.
USD	350	1,000	30	5.875	Interest is payable every 6 months and maturity in August 2035.
USD	500	1,000	10	3.375	Interest is payable every 6 months and maturity in October 2022.
USD	600	1,000	30	4.5	Interest is payable every 6 months and maturity in October 2042.

As at December 31, 2016, the details of unsecured and senior debentures in foreign currency of the subsidiaries are as follows:

Currency	Credit facilities (unit: million)	Par value (per share)	Period (years)	Interest rate percent (per annum)	Repayment terms
USD	500	1,000	10	3.625	Interest is payable every 6 months and maturity in January 2023.
USD	500	1,000	10	4.875	Interest is payable every 6 months and maturity in January 2023.
USD	500	1,000	5	3.707	Interest is payable every 6 months and maturity in September 2018.
USD	700	1,000	10	5.692	Interest is payable every 6 months and maturity in April 2021.
USD	490	1,000	30	6.35	Interest is payable every 6 months and maturity in June 2042.
USD	250	100,000	10	6.375	Interest is payable every 6 months and maturity in May 2017.
USD	1,000	1,000	10	4.25	Interest is payable every 6 months and maturity in September 2022.

The Group has entered into derivative contracts on debentures to cover interest rates risks and foreign currency exchange rates risks as mentioned in Note 40.2 to Note 40.4.

27.3 Liabilities under finance leases

Details of liabilities under finance leases as at December 31, 2016 and 2015 are as follows:

	Consol financial s	idated tatements	Unit: Million Bah Separate financial statements		
	2016	2015	2016	2015	
Liabilities under finance leases					
- Within 1 year	1,030.98	1,044.21	735.85	742.72	
- Over 1 year but not over 5 years	2,780.07	3,018.00	2,417.06	2,558.32	
- Over 5 years	3,507.32	4,035.94	3,507.31	4,035.94	
Future finance charges	(488.34)	(585.47)	(453.45)	(538.17)	
Present value of liabilities under finance leases	6,830.03	7,512.68	6,206.77	6,798.81	
Present value of liabilities under finance leases					
- Current liabilities	929.32	929.32	652.23	649.49	
- Non-current liabilities	5,900.71	6,583.36	5,554.54	6,149.32	
Total	6,830.03	7,512.68	6,206.77	6,798.81	

27.4 Maturities of long-term loans as at December 31, 2016 and 2015 are as follows:

Unit: Million Baht

Consolidated financial statements

	2016									
	Baht Currency Loans	Foreign Currency Loans	Baht Currency Debentures	Foreign Currency Debentures	Liabilities Under Finance Leases	Total				
Within 1 year	17,970.11	2,561.11	22,820.12	19,775.03	929.32	64,055.69				
Over 1 year but not over 5 years	59,834.93	41,376.95	134,777.01	36,617.82	2,546.45	275,153.16				
Over 5 years	18,833.75	10,206.39	71,288.18	140,431.16	3,354.26	244,113.74				
Total	96,638.79	54,144.45	228,885.31	196,824.01	6,830.03	583,322.59				

27.4 Maturities of long-term loans as at December 31, 2016 and 2015 are as follows: (Continued)

Unit: Million Baht

		2015									
	Baht Currency Loans	Foreign Currency Loans	Baht Currency Debentures	Foreign Currency Debentures	Liabilities Under Finance Leases	Total					
Within 1 year	19,309.05	2,251.98	32,128.00	-	929.32	54,618.35					
Over 1 year but not over 5 years	70,684.12	40,617.69	122,472.57	37,515.34	2,743.44	274,033.16					
Over 5 years	17,737.34	9,644.10	106,401.58	166,559.27	3,839.92	304,182.21					
Total	107,730.51	52,513.77	261,002.15	204,074.61	7,512.68	632,833.72					

Consolidated financial statements

Unit: Million Baht

Separate financial statements

	2016									
	Baht Currency Loans	Foreign Currency Loans	Baht Currency Debentures	Foreign Currency Debentures	Liabilities Under Finance Leases	Total				
Within 1 year	4,143.52	-	8,136.00	11,208.06	652.23	24,139.81				
Over 1 year but not over 5 years	7,014.51	11,160.77	85,897.47	-	2,200.29	106,273.04				
Over 5 years	-	7,160.71	42,400.00	51,715.68	3,354.25	104,630.64				
Total	11,158.03	18,321.48	136,433.47	62,923.74	6,206.77	235,043.49				

Unit: Million Baht

Separate financial statements

	2015									
	Baht Currency Loans	Foreign Currency Loans	Baht Currency Debentures	Foreign Currency Debentures	Liabilities Under Finance Leases	Total				
Within 1 year	5,429.02	-	31,070.00	-	649.49	37,148.51				
Over 1 year but not over 5 years	11,158.03	11,238.68	78,803.47	10,899.22	2,309.41	114,408.81				
Over 5 years	-	6,963.39	57,630.00	52,052.74	3,839.91	120,486.04				
Total	16,587.05	18,202.07	167,503.47	62,951.96	6,798.81	272,043.36				

Employee Benefit Obligations 28.

Movements in the present value of the employee benefit obligations are as follows:

				Unit: Million Baht
	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
As at January 1	18,787.51	17,253.33	6,760.58	6,004.14
Service cost	1,519.84	1,661.63	534.21	476.02
Interest cost	547.23	535.24	225.65	217.05
Actuarial loss from post-employment				
benefit obligation	1,136.39	130.12	863.03	315.89
Actuarial (gain) loss from other				
long-term employee benefit obligation	54.82	(137.99)	12.67	(1.04)
Actual payment	(939.33)	(645.88)	(256.04)	(251.48)
Currency translation differences	(34.13)	(8.94)	-	-
As at December 31	21,072.33	18,787.51	8,140.10	6,760.58

Details of actuarial loss from post-employment benefit obligation are as follows:

				Unit: Million Bant
	Consolidated financial statements		Sepa financial s	
	2016	2015	2016	2015
Loss from experience adjustments	817.50	65.36	789.21	0.07
(Gain) Loss from changes in				
financial assumptions	(4,703.06)	144.65	(4,792.10)	315.82
(Gain) loss from changes in				
demographic assumptions	5,021.95	(79.89)	4,865.92	-
Total	1,136.39	130.12	863.03	315.89

28. Employee Benefit Obligations (Continued)

Expenses recognized in the statements of income and comprehensive income for the years ended December 31, 2016 and 2015 are as follows:

				Unit: Million Baht
	Consolidated financial statements			arate tatements
	2016	2015	2016	2015
Service cost	1,519.84	1,661.63	534.21	476.02
Interest cost	547.23	535.24	225.65	217.05
Actuarial (gain) loss	1,191.21	(7.87)	875.70	314.85
Total	3,258.28	2,189.00	1,635.56	1,007.92

Unit: Million Baht

	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
Cost of sales and services	721.05	568.62	121.15	106.31
Selling expenses	71.09	59.24	66.25	58.33
Administrative expenses	1,319.84	1,413.23	584.12	525.13
Management remuneration	9.91	17.79	1.01	2.26
Other comprehensive loss	1,136.39	130.12	863.03	315.89
Total	3,258.28	2,189.00	1,635.56	1,007.92

Employee Benefit Obligations (Continued) 28.

Discount rate

Principal actuarial assumptions used in determining the post-employment benefit obligation of the Group are as follows:

	Annual percentage (%)
Discount rate	1.00 - 7.90
Inflation rate	1.00 - 7.86
Employee turnover rate	0.00 - 15.00
Mortality rate	Based on the published statistics of mortality tables B.E. 2551
	(TMO08) issued by the Office of Insurance Commission
	and based on the published statistics of each country

Sensitivity analysis of principal actuarial assumption used in determining the post-employment benefit obligation of the Group are as follows:

Unit: Million Baht

Increase (decrease) in present value of the obligation				
Increase 1%	Decrease 1%			
(2.916.65)	4,051.18			

Weighted average duration of the post-employment benefit obligation of the Group is 16.55 years.

29. Provision for Decommissioning Costs

Movements in the provision for decommissioning costs are as follows:

S	Consolidated financial statements
As at Lanuary 1, 001C	
As at January 1, 2016	75,746.67
- Additions	4,527.35
- Use during the year	(528.09)
- Reversal of non-occurred provision	(6,418.12)
- Currency translation differences	(576.25)
As at December 31, 2016	72,751.56
- Current portion	-
- Long-term portion	72,751.56

30. Other Non-current Liabilities

Other non-current liabilities as at December 31, 2016 and 2015 are as follows:

				Unit: Million Baht	
	Consolidated financial statements				
	2016	2015	2016	2015	
Provision for remuneration for					
the renewal of petroleum production	9,099.33	10,931.36	-	-	
Long-term liability: Make-up	10,089.42	9,710.85	10,089.42	9,710.85	
Retention	1,283.59	1,296.70	750.50	715.53	
Deferred revenue	21,396.40	1,120.17	3,762.41	711.80	
Others	6,901.47	7,024.87	4,812.06	5,385.16	
Total	48,770.21	30,083.95	19,414.39	16,523.34	

Long-term liability (make-up) arises from the amount of the difference between the natural gas price for the committed gas volumes that the Company paid in advance and the natural gas price as at the date of taking the gas that exceeds the interest paid for the advance payment for untaken-up gas volume (Take-or-Pay). The Company has to distribute the difference to the parties who paid for the Take-or-Pay interest for the Yadana and Yetagun gas fields.

31. Share Capital

31.1 Share Capital – Authorized Shares

	Par Value (Baht per share)	The number of authorized shares (shares)	The value of authorized shares (Baht)
As at December 31, 2015	10	2,857,245,725	28,572,457,250
As at December 31, 2016		2,857,245,725	28,572,457,250

31.2 Share Capital – Issued and Paid-up Shares

	Number of issued and fully paid–up shares (shares)	Value of issued and fully paid–up shares (Baht)	Premium on share capital (Baht)	Total (Baht)
As at December 31, 2015	2,856,299,625	28,562,996,250	29,211,131,966	57,774,128,216
As at December 31, 2016	2,856,299,625	28,562,996,250	29,211,131,966	57,774,128,216

32. Reserves

32.1 Legal Reserve

Under the Public Limited Companies Act B.E. 2535, the Company is required to appropriate not less than 5% of its annual net profit as legal reserve until the reserve fund reaches 10% of the authorized share capital. The reserve is non-distributable. The Company's reserve has already reached the 10% of its authorized share capital, stipulated in the Act.

32.2 Reserve for Self-insurance Fund

Movements of reserves for self-insurance fund are as follows:

				Unit: Million Baht
	Consolidated financial statements			arate tatements
	2016	2015	2016	2015
Balance as at January 1	1,145.11	1,098.74	1,145.11	1,098.74
Appropriated during the years	29.28	46.37	29.28	46.37
Balance as at December 31	1,174.39	1,145.11	1,174.39	1,145.11

The self-insurance fund was set up to provide insurance coverage for the Company's business. The Company appropriates net profit from operations and the interest income of the self-insurance fund each year to the fund.

Basic Earnings (Loss) per Share 33.

Basic earnings (loss) per share for the years ended December 31, 2016 and 2015 are as follows:

	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
Profit attributable to owners of the parent				
from continuing operations (Baht)	94,039,732,600	20,666,429,339	70,808,045,526	9,554,795,531
Adjustment of profit (Baht)	(1,251,699,863)	(726,752,435)	-	-
Profit for calculation of earnings per share				
from continuing operations (Baht)	92,788,032,737	19,939,676,904	70,808,045,526	9,554,795,531
Profit (loss) for calculation of earnings per				
share from discontinued operations (Baht)	569,345,640	(730,012,230)	-	-
Profit for calculation of earnings per share (Baht)	93,357,378,377	19,209,664,674	70,808,045,526	9,554,795,531
Number of weighted average of ordinary				
shares (shares)	2,856,299,625	2,856,299,625	2,856,299,625	2,856,299,625
Earnings per share from continuing operations (Baht/share) Earnings (loss) per share from discontinued	32.48	6.98	24.79	3.35
operations (Baht/share)	0.20	(0.25)	-	-
Earnings per share (Baht/share)	32.68	6.73	24.79	3.35

34. Sales and Service Income

Details of sales and service income for the years ended December 31, 2016 and 2015 are as follows:

		Unit: Million Baht			
		lidated tatements		oarate statements	
	2016	2015	2016	2015	
Oil products	955,098.93	1,176,447.69	937,419.90	1,115,612.06	
Gas products	385,481.40	489,133.50	462,005.12	575,310.95	
Petrochemicals products	318,839.37	307,727.35	32,955.13	15,647.43	
Mining products	15,994.85	13,632.79	-	-	
Non-oil businesses	11,773.68	10,437.88	6,825.20	5,640.02	
Services	11,643.10	9,248.61	50.26	38.63	
Others	20,014.71	18,923.89	137.88	2.00	
Total	1,718,846.04	2,025,551.71	1,439,393.49	1,712,251.09	

Sales and services income for the years ended December 31, 2016 and 2015 include sales to government agencies and state enterprises amounting to Baht 117,298.97 million and Baht 147,529.16 million in the consolidated financial statements, and Baht 106,279.70 million and Baht 145,873.74 million in the separate financial statements, respectively.

35. Other Income

Details of other income for the years ended December 31, 2016 and 2015 are as follows:

Unit: Million Baht

	Consol financial s		Sepa financial s	
	2016	2015*	2016	2015
Transportation income	5,033.33	5,069.30	7,749.19	8,807.01
Dividend income	797.96	483.23	24,937.11	25,236.30
Interest income	5,625.35	6,292.92	4,521.72	4,233.12
Compensation for loan interest on				
advance payments for gas purchases	(2.00)	(1.90)	(2.00)	(1.90)
Gain on disposal of investments	1,887.21	2,423.22	-	10,327.28
Gain (loss) on derivatives	(8,981.50)	4,728.97	181.35	(1,490.87)
Others	5,322.30	11,788.43	3,375.50	6,425.00
Total	9,682.65	30,784.17	40,762.87	53,535.94

Compensation for loan interests on advance payments for gas purchases (Take-or-Pay) represents the compensation, which the Company received from the Electricity Generating Authority of Thailand (EGAT) and the Independent Power Plants (IPP) in order to absorb the interests on loans that the Company obtains to make advance payments for gas purchases.

* The Company has reclassified the financial information to be comparable with the financial statement presentation for the year ended December 31, 2016.

36. Expenses by Nature

Details of expenses by nature for the years ended December 31, 2016 and 2015 are as follows:

Unit: Million Baht

		lidated tatements	Separate financial statements			
	2016	2015*	2016	2015		
Changes in finished goods						
and work in process	(3,957.87)	17,199.60	(5,809.65)	12,808.15		
Goods purchased and raw materials used	1,265,007.76	1,550,348.93	1,323,745.55	1,600,505.83		
Staff costs	43,766.96	46,602.99	9,651.28	8,792.36		
Outsourcing	8,434.78	9,757.94	7,654.19	8,175.49		
Transportation	17,955.37	21,197.29	6,708.15	7,468.64		
Depreciation and amortization	128,733.80	143,336.11	18,674.80	16,740.65		
Repairment	15,179.11	17,155.21	3,566.93	4,336.57		
Utilities	12,439.22	16,519.82	11,703.90	14,421.86		
Rental fees and property insurance premium	9,119.56	8,860.08	3,759.54	3,585.48		
(Reversal of) doubtful accounts	276.28	(3,394.45)	5,153.80	35,047.24		
Loss on impairment of assets	7,203.00	72,873.22	793.45	16,956.96		
Others	31,395.09	46,127.67	6,657.40	13,042.88		
Total	1,535,553.06	1,946,584.41	1,392,259.34	1,741,882.11		

* The Company has reclassified the financial information to be comparable with the financial statement presentation for the year ended December 31, 2016.

37. Petroleum Royalties and Remuneration

Details of petroleum royalties and remuneration for the years ended December 31, 2016 and 2015 are as follows:

Consolidated financial statements						
2016	2015					

2016	2015
13,266.05	15,201.82
304.38	8.95
13,570.43	15,210.77

Unit: Million Baht

Petroleum royalties Special remuneration benefits Total

38. Finance Costs

Details of finance costs for the years ended December 31, 2016 and 2015 are as follows:

		Unit: Million Baht			
	Conso financial s	lidated tatements	Separate financial statements		
	2016	2015	2016	2015	
Interest expenses:					
Loans from financial institutions	8,949.88	9,703.88	1,040.92	1,225.12	
Debentures	15,082.98	15,770.78	9,155.62	9,475.37	
Liabilities under finance leases	124.01	132.63	95.96	103.16	
Others	3,442.51	2,914.46	1.27	-	
Other finance costs	1,287.87	1,557.65	612.69	571.08	
Total	28,887.25	30,079.40	10,906.46	11,374.73	

39. Operating Segments

These operating segments are consistent with the internal management reports provided to the Chief Operating Decision Maker (CODM), who makes decisions related to the allocation of resources to the segments and assesses their performance.

For management purposes, the Group is organized into business units based on types of products and services. The major segments of the Group are as follows:

Upstream Petroleum and Natural Gas Business Group

1. Petroleum exploration and production business:

The Group conducts petroleum exploration and production business both domestically and overseas. The Group is the operator and jointly invests with leading petroleum exploration and production companies. Most domestic projects are located in the Gulf of Thailand, while overseas projects are located in Asia Pacific, North America, Africa and the Middle East.

2. Natural gas business:

The Group conducts natural gas business including procurement, natural gas pipeline transmission, distribution, and natural gas separation. Products from the natural gas separation plants are used as feedstock for the petrochemical industry and as fuel in the household, transportation and industry sectors.

Downstream Petroleum Business Group

1. Oil business:

The Group conducts marketing of petroleum products and lube oil in both domestic and overseas markets under an efficient operating system of procurement, storage, and distribution of products as well as the retail business at service stations.

2. International trading business:

The Group conducts international trading business including the import and export of petroleum and petrochemical products as well as other related products. This includes the management of risks arising from oil trading and the procurement and distribution of petroleum and petrochemical products in international markets.

3. Petrochemical and Refining business:

The Group conducts refining business including the production and distribution of petroleum and petrochemicals products in both domestic and overseas markets.

Coal Business

The Group conducts coal mining business, involving overseas exploration, production and distribution of coals.

Other operations of the Group are included in other segments, none of which constitutes a separately reportable segment.

Consolidated financial statements

For the year ended December 31, 2016

	Upstream and nate		Downstream petroleum						
	Petroleum exploration and production	Natural gas	Oil	International trading	Petrochemicals and Refining	Coal	Others	Elimination	Total
Sales - others	21,358.25	328,078.96	479,301.12	379,143.87	494,784.02	15,994.85	184.97	-	1,718,846.04
- related parties	128,858.80	129,906.64	5,971.99	369,285.10	289,672.32	311.98	4,312.43	(928,319.26)	-
Net sales	150,217.05	457,985.60	485,273.11	748,428.97	784,456.34	16,306.83	4,497.40	(928,319.26)	1,718,846.04
Gross profit (loss)*	129,831.22	84,231.54	36,692.23	3,861.69	117,923.59	5,450.02	(412.44)	(1,842.50)	375,735.35
EBITDA	107,464.39	72,082.29	23,676.91	2,865.25	101,846.50	4,194.95	669.73	(273.98)	312,526.04
Depreciation and amortization expenses	73,518.95	18,116.02	3,707.97	32.73	30,405.31	1,934.45	1,018.37	-	128,733.80
Segment operating profit (loss)	33,945.44	53,966.27	19,968.94	2,832.52	71,441.19	2,260.50	(348.64)	(273.98)	183,792.24
Share of profit (loss) from investments in joint ventures									
and associates	73.71	1,203.99	896.87	-	1,969.21	(0.27)	(0.30)	-	4,143.21
Reversal of (loss) on impairment of assets	(1,688.29)	(4,086.04)	35.78	-	(655.53)	(310.65)	(498.27)	-	(7,203.00)
Others	872.10	418.19	17.28	6.27	58.75	1,171.37	(209.60)	-	2,334.36
Unallocated revenue and expenses:									
Interest income									5,625.35
Loss on derivatives									(8,981.50)
Gain on foreign exchange rate									4,472.68
EBIT									184,183.34
Finance costs									(28,887.25)
EBT									155,296.09
Income taxes									(26,593.07)
Profit for the year from continuing operations									128,703.02
Profit for the year from discontinued operations, net of tax									872.07
Profit for the year									129,575.09

Unit: Million Baht

* Gross profit (loss) excludes depreciation and amortization expenses in cost of sales.

Consolidated financial statements

For the year ended December 31, 2016 (Continued)

Unit: Million Baht

94,609.08

34,663.28

129,575.09

302.73 34,966.01

	Upstream and nate			wnstream petrol	eum			-	
	Petroleum exploration and production	Natural gas	Oil	International trading	Petrochemicals and Refining	Coal	Others	Elimination	Total
ng operations									94,039.7
nued operations, net of tax									569.3

Profit attributable to:

Owners of the parent

- Profit for the year from continuing operations
- Profit for the year from discontinued operations, net of tax

Non-controlling interests

Profit for the year from continuing operations Profit for the year from discontinued operations, net of tax

Profit for the year

Consolidated financial statements

As at December 31, 2016 (Continued)

Unit: Million Baht

	Upstream p and natu		Dov	vnstream petrole	eum				
	Petroleum exploration and production	Natural gas	Oil	International trading	Petrochemicals and Refining	Coal	Others	Elimination	Total
Segment assets	653,353.23	411,369.32	100,624.72	96,337.48	711,032.03	32,336.26	160,423.45	-	2,165,476.49
Inter-company assets	14,085.07	12,230.93	1,638.12	38,582.19	24,046.29	434.91	89,648.96	(180,666.47)	-
Investments in joint ventures and associates	967.35	13,623.46	4,988.34	-	36,694.24	-	-	-	56,273.39
Total segment assets	668,405.65	437,223.71	107,251.18	134,919.67	771,772.56	32,771.17	250,072.41	(180,666.47)	2,221,749.88
Non-allocated assets									10,581.20
Total assets									2,232,331.08
	000 500 00	00 50 4 07	01 400 70	117 500 15	005 005 00	4 500 00	050 010 57		1 010 710 00
Segment liabilities	229,580.96	88,524.87	31,420.76	117,536.15	295,035.98	4,596.39	250,018.57	-	1,016,713.68
Inter-company liabilities	677.52	35,040.08	24,495.35	8,757.47	44,398.82	62,395.62	3,912.94	(179,677.80)	-
Total segment liabilities	230,258.48	123,564.95	55,916.11	126,293.62	339,434.80	66,992.01	253,931.51	(179,677.80)	1,016,713.68
Non-allocated liabilities									44,020.39
Total liabilities									1,060,734.07
Capital expenditure	41,067.07	25,958.73	7,785.39	152.86	36,206.03	1,039.34	823.50	-	113,032.92

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Consolidated financial statements

For the year ended December 31, 2015

Unit: Million Baht

	Upstream petroleum								
	and nat		Dov	wnstream petrole	eum				
	Petroleum exploration and production	Natural gas	Oil	International trading	Petrochemicals and Refining	Coal	Others	Elimination	Total
Sales - others	25,982.15	404,372.55	507,835.07	519,764.08	553,452.33	13,632.79	512.74	-	2,025,551.71
- related parties	158,428.56	138,426.08	3,694.56	430,168.89	320,742.32	-	4,357.21	(1,055,817.62)	-
Net sales	184,410.71	542,798.63	511,529.63	949,932.97	874,194.65	13,632.79	4,869.95	(1,055,817.62)	2,025,551.71
Gross profit (loss)*	160,922.27	61,360.49	28,381.02	3,974.72	100,679.94	3,996.48	(262.44)	(1,095.05)	357,957.43
EBITDA	132,269.39	47,832.02	15,133.11	3,273.98	84,888.16	2,728.59	1,089.25	(1,000.60)	286,213.90
Depreciation and amortization expenses	92,396.33	15,857.08	2,976.21	32.42	27,574.67	2,892.30	1,609.09	(1.99)	143,336.11
Segment operating profit (loss)	39,873.06	31,974.94	12,156.90	3,241.56	57,313.49	(163.71)	(519.84)	(998.61)	142,877.79
Share of profit (loss) from investments in joint ventures									
and associates	138.46	1,425.26	863.66	-	4,004.13	(0.59)	(399.22)	-	6,031.70
Reversal of (allowance for) doubtful accounts	-	103.61	(210.56)	(6.27)	2,782.09	-	-	725.58	3,394.45
Reversal of (loss) on impairment of assets	(48,610.90)	-	1.05	-	(2,530.90)	(20,275.26)	(1,457.21)	-	(72,873.22)
Others	-	(4.08)	(0.23)	-	(96.72)	-	2,616.34	12.46	2,527.77
Unallocated revenue and expenses:									
Interest income									6,292.92
Gain on derivatives									4,728.97
Loss on foreign exchange rate									(5,992.08)
EBIT									86,988.30
Finance costs									(30,079.40)
EBT									56,908.90
Income taxes									(25,071.43)
Gain for the year from continuing operations									31,837.47
Loss for the year from discontinued operations, net of tax									(1,118.17)
Gain for the year									30,719.30

* Gross profit (loss) excludes depreciation and amortization expenses in cost of sales.

Consolidated financial statements

For the year ended December 31, 2015 (Continued)

Unit: Million Baht

	Upstream petroleum and natural gas		Do	wnstream petrole	eum				
	Petroleum exploration and production	Natural gas	Oil	International trading	Petrochemicals and Refining	Coal	Others	Elimination	Total
Profit (loss) attributable to:									
Owners of the parent									
Profit for the year from continuing operations									20,666.43
Loss for the year from discontinued operations, net of tax									(730.01)
									19,936.42
Non-controlling interests									
Profit for the year from continuing operations									11,171.04
Loss for the year from discontinued operations, net of tax									(388.16)
									10,782.88
Profit for the year									30,719.30

Consolidated financial statements

As at December 31, 2015 (Continued)

Unit: Million Baht

	Upstream and nat		Dov	wnstream petrole	eum				
	Petroleum exploration and production	Natural gas	Oil	International trading	Petrochemicals and Refining	Coal	Others	Elimination	Total
Segment assets	682,164.43	405,877.55	88,472.60	79,988.15	668,755.36	31,752.72	144,529.17	-	2,101,539.98
Inter-company assets	17,884.47	12,773.24	1,969.17	32,077.88	20,153.89	27.16	35,676.08	(120,561.89)	-
Investments in joint ventures and associates	1,046.17	17,642.32	5,427.68	-	37,274.56	143.76	485.58	-	62,020.07
Total segment assets	701,095.07	436,293.11	95,869.45	112,066.03	726,183.81	31,923.64	180,690.83	(120,561.89)	2,163,560.05
Non-allocated assets									10,436.14
Total assets									2,173,996.19
Segment liabilities	253,506.01	92,536.53	25,857.55	88,984.01	287,440.18	4,121.76	283,081.01	-	1,035,527.05
Inter-company liabilities	730.59	38,391.94	18,061.68	10,028.28	38,994.07	7,052.92	5,719.52	(118,979.00)	-
Total segment liabilities	254,236.60	130,928.47	43,919.23	99,012.29	326,434.25	11,174.68	288,800.53	(118,979.00)	1,035,527.05
Non-allocated liabilities									50,781.76
Total liabilities									1,086,308.81
Capital expenditure	65,466.38	34,088.91	8,956.60	23.71	54,086.00	1,945.59	2,694.34	-	167,261.53

Pricing among business groups is based on normal market prices except for pricing among business groups within the Company, for which net market prices, after deducting management fees for petroleum terminals and operating fees, are applied.

40. Disclosure of Financial Instruments

The Group faces the principal financial risks associated with fluctuations in exchange rates, interest rates, and global oil market prices. Certain portions of sales, purchases and borrowings are denominated in foreign currencies. The Group borrows at both fixed and floating interest rates to finance its operations. Accordingly, the management has entered into derivative contracts to cover these risks. The financial instruments used for hedging risks are forward foreign exchange contracts, interest rate swap contracts, cross-currency swap contracts, participating swap contracts, etc. Risk exposure relating to global oil market prices is managed by forward oil contracts.

The department responsible for managing exposure to exchange rate risks and fluctuations in oil market prices has to report details of the costs and market prices of all financial instruments to management, including outstanding forward foreign exchange contracts and forward oil contracts. The reported information principally covers risk exposure from:

- foreign exchange rates
- currencies
- currencies and interest rates
- interest rates
- fluctuations in oil market prices
- credit risks

40.1 Foreign Exchange Rate Risk

The Group has entered into forward foreign exchange contracts. The contract prices and exchange rates under the forward foreign exchange contracts as at December 31, 2016 and 2015 are as follows:

	Consolidated financial statements		Unit: Million Bal Separate financial statements	
	2016	2015	2016	2015
Forward foreign exchange purchase contracts				
Baht 33.8475 - 36.6000 = 1 USD	-	50,167.95	-	22,262.43
Baht 34.6210 - 36.6700 = 1 USD	56,544.13	-	-	-
Baht 34.9507 - 36.0642 = 1 USD	-	-	18,206.61	-
Baht 35.5100 - 39.8200 = 1 EUR	-	4,422.66	-	-
Baht 36.9500 - 40.3900 = 1 EUR	182.38	-	-	-
Baht 105.8000 - 106.8000 JPY = 1 USD	18.10	-	-	-
Forward foreign exchange sale contracts				
Baht 33.0145 - 40.3231 = 1 USD	-	11,511.93	-	3,712.29
Baht 34.6670 - 36.0200 = 1 USD	-	-	42,378.86	-
Baht 34.6670 - 36.0880 = 1 USD	60,115.62	-	-	-
Baht 36.1000 - 37.9720 = 1 EUR	-	11.55	-	-
Baht 37.9516 - 37.9769 = 1 EUR	0.18	-	-	-
Baht 5.1360 - 5.3675 = 1 CNY	-	3,277.02	-	-
Baht 0.2776 - 0.3006 = 1 JPY	-	177.80	-	_

40.2 Currency Risk

The Company has entered into a cross-currency swap of a long-term loan in the form of a participating swap. The terms of such contract as at December 31, 2016 and 2015 detailed as follows:

	Consol financial s		Sepa financial s	
	2016	2015	2016	2015
JPY 23,000 million/USD 196.94 million	7,160.71	6,963.39	7,160.71	6,963.39

This contract has a maturity later than five years.

40.3 Currency and Interest Rate Risk

The Group has entered into cross-currency swap contracts of long-term loans and debentures. The terms of the outstanding cross-currency swap contracts as at December 31, 2016 and 2015 are as follows:

	Consolidated financial statements		Sepa financial s	Unit: Million Baht arate tatements
	2016	2015	2016	2015
/USD 290.51 million	11,208.06	10,899.22	11,208.06	10,899.22
/USD 79.45 million	2,636.00	2,636.00	2,636.00	2,636.00
/USD 120.55 million	4,000.00	4,000.00	4,000.00	4,000.00
/USD 99.66 million	3,000.00	3,000.00	3,000.00	3,000.00
/USD 285.42 million	9,000.00	9,000.00	9,000.00	9,000.00
/USD 82.92 million	-	2,500.00	-	-
/USD 161.81 million	-	4,997.90	-	-
/USD 251.07 million	-	8,192.96	-	-
n/USD 349.05 million	-	11,387.25	-	-
/USD 81.43 million	2,500.00	2,500.00	-	-
/USD 85.59 million	3,081.50	2,640.00	-	-
/USD 162.60 million	5,854.07	5,000.00	-	-
/USD 220.00 million	-	7,910.45	-	-
/USD 90.70 million	-	5,981.80	-	-
n/USD 844.85 million	27,100.00	-	-	-
ion/USD 64.10 million	2,234.32	-	-	-
ion/USD 61.75 million	2,113.43	-	-	-
	72,727.38	80,645.58	29,844.06	29,535.22

JPY 36,000 million/ Baht 2,636 million/L Baht 4,000 million/L Baht 3,000 million/L Baht 9,000 million/L Baht 2,500 million/L Baht 5,000 million/L Baht 8,200 million/L Baht 11,400 million Baht 2,500 million/L Baht 2,640 million/L Baht 5,000 million/L Baht 7,000 million/L Baht 5,982 million/L Baht 27,100 million Baht 2,234.32 millio Baht 2,113.43 millio Total

The maturities periods of contracts are as follows:

Unit: Million Baht

	Consolidated financial statements				
	2016	2015	2016	2015	
Due within 1 year	23,006.81	8,299.27	16,844.06	-	
Over 1 year but not over 5 years	33,020.89	54,431.75	9,000.00	25,535.22	
Over 5 years	16,699.68	17,914.56	4,000.00	4,000.00	
Total	72,727.38	80,645.58	29,844.06	29,535.22	

40.4 Interest Rate Risk

The Group has entered into interest rate swap contracts of long-term loans and debentures. The terms of the outstanding interest rate swap contracts as at December 31, 2016 and 2015 are as follows:

Unit: Million Baht

	Consolidated financial statements		Separate financial statements	
	2016	2015	2016	2015
Interest rate swap contracts to swap floating				
for fixed rate in USD currency	10.00	3,900.00	-	-
Interest rate swap contracts to swap fixed for				
floating rate in USD currency	35,795.55	36,034.12	35,795.55	36,034.12
Interest rate swap contracts to swap floating				
for decreasing floating rate in Baht currency	-	7,000.00	-	7,000.00
Interest rate swap contracts to swap fixed				
for floating rate in Baht currency	4,000.00	-	4,000.00	-
Interest rate swap contracts to swap floating				
for fixed rate in JPY currency	7,900.22	-	-	-
Interest rate swap contracts to swap floating				
for fixed rate in Baht currency	10,020.00	5,802.54	4,000.00	5,000.00
Interest rate swap contracts to swap fixed for				
decreasing fixed rate in Baht currency	-	2,500.00	-	-
Total	57,725.77	55,236.66	43,795.55	48,034.12

40.4 Interest Rate Risk (Continued)

The maturity periods of contracts are as follows:

				Unit: Million Bant
	Consolidated financial statements		Sepa financial s	arate tatements
	2016	2015	2016	2015
Due within 1 year	4,520.00	2,700.00	1,500.00	2,400.00
Over 1 year but not over 5 years	47,012.00	34,451.28	42,295.55	45,634.12
Over 5 years	6,193.77	18,085.38	-	-
Total	57,725.77	55,236.66	43,795.55	48,034.12

Lipit Million Dobt

40.5 Fluctuations in Oil Market Price Risk

The Group has entered into oil price derivatives. As at December 31, 2016, the volume of oil under those contracts that mature during January to December 2017 is 19.26 million barrels in the consolidated financial statements and 3.12 million barrels in the separate financial statements (as at December 31, 2015: 22.87 million barrels in the consolidated financial statements and 5.77 million barrels in the separate financial statements).

40.6 Credit Risk

Credit risk arises when customers do not comply with the terms and conditions of credit agreements, causing financial losses to the Company. However, the Company has managed risk by adjusting its credit policies according to the current economic situation, focusing on developing financial instruments by cooperating with financial institutions to support credit facilities provided to customers in order to buy the Company's products, such as the Dealer Financing and Supply Chain Credit project, the trade credit insurance, and the Payment card and Fleet card, aims to reduce credit risks of the Company. The Company also reduces credit risk by determining procedures for risk prevention and mitigation, including credit rating for all trading partners of the Company.

41. Fair Value Measurement

The fair value of the current portions of financial assets and liabilities approximates the carrying value due to the relatively short-term maturity of these financial instruments.

The fair value of long-term loans and borrowings carrying interest at market rates approximates the carrying values.

As at December 31, 2016 and 2015, the Group had the assets and liabilities that were measured at fair value using different levels of inputs as follows:

As at December 31, 2016

Unit: Million Baht

Consolidated financial statements

	Level 1	Level 2	Total
Financial assets measured at fair value			
Available-for-sale investments			
Equity instruments	6,709.86	-	6,709.86
Mutual funds	11,719.17	-	11,719.17
Debt instruments	-	5,410.51	5,410.51
Derivatives			
Foreign currency forward contracts	-	957.36	957.36
Cross-currency swap contracts	-	618.97	618.97
Interest rate swap contracts	-	200.16	200.16
Commodity swap contracts	254.61	116.14	370.75
Other derivative contracts	-	378.56	378.56
Financial liabilities measured at fair value			
Derivatives			
Foreign currency forward contracts	-	139.95	139.95
Cross-currency swap contracts	-	6,330.63	6,330.63
Interest rate swap contracts	-	312.77	312.77
Commodity swap contracts	1,742.39	4,109.89	5,852.28
Other derivative contracts	-	45.26	45.26

As at December 31, 2016 (Continued)

Unit: Million Baht

Separate financial statements

	Level 1	Level 2	Total
Financial assets measured at fair value			
Available-for-sale investments			
Equity instruments	6,549.82	-	6,549.82
Mutual funds	11,566.43	-	11,566.43
Derivatives			
Cross-currency swap contracts	-	618.97	618.97
Interest rate swap contracts	-	99.67	99.67
Financial liabilities measured at fair value			
Derivatives			
Cross-currency swap contracts	-	1,702.63	1,702.63
Interest rate swap contracts	-	212.29	212.29

As at December 31, 2015

Unit: Million Baht

Consolidated financial statements

	Level 1	Level 2	Total
		ECVCIE	Total
Financial assets measured at fair value			
Available-for-sale investments			
Equity instruments	5,043.26	-	5,043.26
Mutual funds	8,309.73	-	8,309.73
Derivatives			
Foreign currency forward contracts	-	295.51	295.51
Cross-currency swap contracts	-	6,772.58	6,772.58
Interest rate swap contracts	-	448.52	448.52
Commodity swap contracts	2,136.10	6,466.26	8,602.36
Other derivative contracts	-	601.84	601.84
Financial liabilities measured at fair value			
Derivatives			
Foreign currency forward contracts	-	479.19	479.19
Cross-currency swap contracts	-	7,099.16	7,099.16
Interest rate swap contracts	-	365.65	365.65
Commodity swap contracts	923.30	8,813.04	9,736.34
Other derivative contracts	-	27.09	27.09

As at December 31, 2015 (Continued)

Unit: Million Baht

Separate financial statements

	Level 1	Level 2	Total
Financial assets measured at fair value			
Available-for-sale investments			
Equity instruments	4,939.04	-	4,939.04
Mutual funds	8,169.75	-	8,169.75
Derivatives			
Cross-currency swap contracts	-	159.11	159.11
Interest rate swap contracts	-	292.50	292.50
Financial liabilities measured at fair value			
Derivatives			
Cross-currency swap contracts	-	1,652.43	1,652.43
Interest rate swap contracts	-	176.81	176.81

As at December 31, 2016 and 2015, the Group had the assets and liabilities that were disclosed at fair value using different levels of inputs as follows:

As at December 31, 2016

Unit: Million Baht

	Level 1	Level 2	Level 3	Total
Financial assets disclosed at fair value				
Investment properties	-	12,859.24	10,126.40	22,985.64
Derivatives				
Foreign currency forward contracts	-	53.90	-	53.90
Foreign exchange option contracts	-	648.61	-	648.61
Commodity swap contracts	-	136.21	-	136.21
Financial liabilities disclosed at fair value				
Debentures - Baht currency	-	250,494.92	-	250,494.92
Debentures - foreign currencies	-	212,803.71	-	212,803.71
Derivatives				
Foreign currency forward contracts	-	46.53	-	46.53
Commodity swap contracts	-	974.78	-	974.78

Consolidated financial statements

As at December 31, 2016 (Continued)

Unit: Million Baht

	Level 1	Level 2	Level 3	Total
Financial assets disclosed at fair value				
Investment properties	-	11,227.50	719.49	11,946.99
Derivatives				
Foreign currency forward contracts	-	53.90	-	53.90
Foreign exchange option contracts	-	648.61	-	648.61
Commodity swap contracts	-	136.21	-	136.21
Financial liabilities disclosed at fair value				
Debentures - Baht currency	-	151,921.49	-	151,921.49
Debentures - foreign currencies	-	63,394.46	-	63,394.46
Derivatives				
Foreign currency forward contracts	-	46.53	-	46.53
Commodity swap contracts	-	60.28	-	60.28

Separate financial statements

As at December 31, 2015

Unit: Million Baht

	Level 1	Level 2	Level 3	Total
Financial assets disclosed at fair value				
Investment properties	-	10,659.50	10,131.98	20,791.48
Derivatives				
Foreign currency forward contracts	-	74.16	-	74.16
Foreign exchange option contracts	-	155.15	-	155.15
Commodity swap contracts	-	280.11	-	280.11
Financial liabilities disclosed at fair value				
Debentures - Baht currency	-	323,788.51	-	323,788.51
Debentures - foreign currencies	-	173,901.30	-	173,901.30
Derivatives				
Foreign currency forward contracts	-	120.13	-	120.13
Commodity swap contracts	-	4,157.06	-	4,157.06

Consolidated financial statements

As at December 31, 2015 (Continued)

Unit: Million Baht

	Level 1	Level 2	Level 3	Total
Financial assets disclosed at fair value				
Investment properties	-	9,024.68	621.98	9,646.66
Derivatives				
Foreign currency forward contracts	-	74.16	-	74.16
Foreign exchange option contracts	-	155.15	-	155.15
Commodity swap contracts	-	280.11	-	280.11
Financial liabilities disclosed at fair value				
Debentures - Baht currency	-	185,356.89	-	185,356.89
Debentures - foreign currencies	-	62,000.52	-	62,000.52
Derivatives				
Foreign currency forward contracts	-	10.69	-	10.69
Commodity swap contracts	-	148.80	-	148.80

Separate financial statements

Fair value valuation techniques and inputs for fair Level 2 valuation

The fair values of bonds and derivatives were determined based on discounted future cash flow and valuation model techniques, using an appropriate risk-adjusted discount rate. Most of the inputs used for the valuation are observable in the relevant markets such as spot rates of foreign currencies, yield curves of the respective currencies, interest rate yield curves, yield curves of bonds and commodity price yield curves, etc.

The fair value of land categorized as investment property was determined by external, independent property valuers under the market approach.

Fair value valuation techniques and inputs for Level 3 valuation

The fair values of land and buildings for rent categorized as investment property were determined using the income approach. The inputs used for the valuation consisted of the rate of return and finance costs.

During the year, there were no transfers within the fair value hierarchy.

42. Dividend Payment

On April 11, 2016, at the 2016 Annual General Shareholders' Meeting of the Company, the shareholders approved dividend payments for the year 2015 of Baht 10.00 per share, approximately amounting to Baht 28,560.92 million. On September 25, 2015, the Company paid an interim dividend for the operating results of the first half of 2015 at Baht 6.00 per share for 2,856,090,628 shares, amounting to Baht 17,136.54 million. The remaining dividends were paid as follows:

Dividends	For operating period	Dividend payment rate (Baht/share)	Number of shares (shares)	Total dividend (million Baht)	Payment date
For the year 2015	July 1, 2015 - December 31, 2015	4.00	2,856,093,871	11,424.38	April 29, 2016

On August 19, 2016, at the Board of Directors Meeting No. 8/2016 of the Company, the Board approved interim dividend payments for the first half of 2016 as follows:

Dividends	For operating period	Dividend payment rate (Baht/share)	Number of shares (shares)	Total dividend (million Baht)	Payment date
Interim	January 1, 2016 - June 30, 2016	6.00	2,855,946,746	17,135.68	September 16, 2016

43. Promotional Privileges

The Company has received promotional privileges for the following activities from the Board of Investment (BOI) under the Investment Promotion Act, B.E. 2520:

- the Ethane Separation Plant project
- the Gas Separation Plant Unit 6 project
- the North Bangkok Power Plant gas pipeline project
- the Fourth Rayong-Kangkoi gas pipeline project
- the Thai-Myanmar onshore gas pipeline project
- the Nakhon Sawan gas pipeline project
- the Nakhon Ratchasima gas pipeline project
- the Fifth onshore gas pipeline project
- the Ratchaburi Wang Noi 6 gas metering station to Ratchaburi province gas pipeline project

The promotional privileges include:

- exemption from import duties on machinery approved by the BOI
- exemption from corporate income tax on net income from the promoted business for periods of eight years starting from the date on which the income is first derived from such operations.

During the year 2016, the Company has utilized the privileges for the Ethane Separation Plant project and the Gas Separation Plant Unit 6 project.

The sales and service income of the Company from the promoted and non-promoted businesses for the years ended December 31, 2016 and 2015 are as follows:

Unit: Million Baht

Separate financial statements

2016	2015		
120,922.78	144,689.63		
1,318,470.71	1,567,561.46		
1,439,393.49	1,712,251.09		

Promoted businesses Non-promoted businesses Total

43. Promotional Privileges (Continued)

Some subsidiaries received the following promotional privileges from the BOI under the Investment Act, B.E. 2520.

TOP received privileges for its oil refinery, power and steam generation, petroleum product production, chemical product production, ethanol product production, marine transportation, offshore crude oil unloading facilities and industrial zone. The promotional privileges include exemption from import duties and tax on the machinery approved by the BOI, exemption from corporate income tax on the net income from the promoted business for 7 to 8 years starting from the date on which income is first derived from such operations, and a 50% reduction of corporate income tax on the net income from the expiry date of the corporate income tax exemption.

PTTGC received privileges for its production of upstream, intermediate and downstream petrochemical, utilities and production support facilities, jetty for transportation and storage of liquid product and transportation by marine vessels, production of petroleum product, research and development of polymer products and chemical formula, lab testing services and refinery. The promotional privileges include exemption from import duties and tax on the machinery approved by the BOI, exemption from corporate income tax on the net income from the promoted business up to 100% of its investment for eight years starting from the date on which income is first derived from such operations and a 50% reduction of corporate income tax on the net income from the promoted business for five years starting from the expiry date of the corporate income tax exemption.

GPSC received privileges for its production of electricity, steam, water and chilled water. The promotional privileges include exemption from import duties on the machinery approved by the BOI, exemption from corporate income tax on the net income from the promoted business for eight years starting from the date on which income is first derived from such operations, and a 50% reduction of corporate income tax on the net income from the promoted business for five years starting from the exemption.

IRPC received privileges for its manufacture of Acetylene Black, and Compounded Plastic, The cogeneration and steam power plant project ('CHP'), Propylene project ('PRP'), Blown Film project, Recovery from Purge Gas at PP Plant project, EBSM Upgrading for ABS Specialties project ('EBSM'), Multi Product Pipeline project ('MPPL'), HDPE Catalyst Commercialisation project ('Jet Mill') and Investment project in Industrial area. The promotional privileges include exemption from import duties and tax on materials and necessary parts including machinery approved by the BOI, exemption from corporate income tax on the net income from the promoted business for 5 to 8 years starting from the date on which income is first derived from such operations, a 50% reduction of corporate income tax on the net income from the promoted business for five years starting from the expiry date of the corporate income tax exemption, and double deduction of logistics, electricity and water expenses for a period of ten years since income is first derived from such operations.

43. Promotional Privileges (Continued)

PTTLNG received Category 7.1, promotional privileges for its liquefied natural gas transfer business. The promotional privileges include exemption from import duties on the machinery approved by the BOI, exemption from corporate income tax on the net income from the promoted business for eight years starting from the date on which income is first derived from such operations, and exemption from 50% corporate income tax on the net income from the promoted business for eight years starting the net income from the promoted business for five years starting from the expiry date of the corporate income tax exemption.

PTT TANK received Category 7.1, public utilities and basic services, promotional privileges for its overseas logistics business. The promotional privileges include exemption from import duties and tax on the machinery approved by the BOI, exemption from corporate income tax on the net income from the promoted business up to 100% of its investment for eight years starting from the date on which income is first derived from such operations, and allow to deduct loss carry forward incurred during tax exemption period from net income incurred after tax exemption period for five years starting from the expiry date of the corporate income tax exemption.

PTTPMMA received Category 6.11, manufacture of petrochemicals, promotional privileges for its Polymethyl Methacrylate (PMMA) production business. The promotional privileges include exemption from import duties and tax on the machinery approved by the BOI, exemption from corporate income tax of the net income from the promoted business up to 100% of its investment exclude the cost of land and working capital for eight years starting from the date on which income is first derived from such operations, and a 50% reduction of corporate income tax on the net income from the promoted business for five years starting from the expiry date of the corporate income tax exemption.

As the Group has received promotional privileges from the BOI, it has to comply with all conditions and regulations as stipulated in the promotional certificates.

44. Proceeding regarding the Central Administrative Court's Ordering Temporary Suspension of Projects in Map Ta Phut Area

On June 19, 2009, the Stop Global Warming Association and a group of individuals totaling 43 parties (the Petitioners) filed a complaint with the Central Administrative Court (the Court) as the black case No. 908/2552, against eight government agencies, together with a motion seeking the Court injunction to temporarily suspend all operations and activities of 76 industrial projects in the Map Ta Phut area in Rayong province.

On September 29, 2009, the Court ordered the temporary injunction by requiring the eight accused government agencies to issue the order to temporarily suspend all 76 projects pending the Court's judgment or order otherwise, except for those projects or activities which received the permits before the effective date of the Constitution of Kingdom of Thailand B.E. 2550 or which were not required to prepare the Environmental Impact Assessment (EIA) reports pursuant to the Ministerial Announcement of Ministry of Natural Resources and Environment dated June 16, 2009. 25 projects of the Group were under the suspension order, and three of those 25 projects belonged to the Company.

On October 16, 2009, the Group, as an interested person, submitted a motion to appeal the Court's order to the Supreme Administrative Court.

On December 2, 2009, the Supreme Administrative Court issued an order No. 592/2552 amending the Court's injunction by requiring the eight accused government agencies to order the temporary suspension of all projects or activities listed in the complaint except for 11 projects, which clearly, according to the Supreme Administrative Court, did not severely affect the community but were projects intended to mitigate pollution or only additional installation to the existing projects. Among those 11 projects, seven of them belonged to the Group, comprising one project of the Company and six projects of the other companies in the Group. Two projects of the Company were still under the Court's order to suspend.

On December 18, 2009, the public prosecutor submitted the answer rejecting all allegations in the complaint.

On September 2, 2010, the Court rendered a judgment revoking the permit of the projects listed in the complaint which, according to the law, were categorized as project that might severely affect the community and did not comply with the procedures set forth in Section 67 paragraph 2 of the Constitution, B.E. 2550. The revocation was effective as of the date of the judgment. One project of the Group is within the scope of the judgment.

On October 1, 2010, the 43 prosecutors appealed the Court's judgment to the Supreme Administrative Court. On December 7, 2010, the eight accused government agencies by the public prosecutors submitted a reply to the appeal. The appeal is currently under the consideration of the Supreme Administrative Court.

45. Commitments and Contingent Liabilities

Details of significant changes in commitments and contingent liabilities are as follows:

- 45.1 Details of commitments to subsidiaries, joint ventures, associates and other related companies are as follows:
 - 45.1.1 The Company has provided loans to its subsidiaries and joint ventures with credit limits totaling Baht 96,378.14 million. As at December 31, 2016, the Company made payments in respect of these loans totaling Baht 88,583.83 million. The remaining credit limits were Baht 7,794.31 million.
 - 45.1.2 The Company entered into the Sponsor Support Agreements with subsidiaries and joint ventures with credit limits equal to the sum of the loan obligations to financial institutions of such subsidiaries and joint ventures. Under these agreements, as at December 31, 2016, the Company had commitments of USD 176.18 million or equivalent to Baht 6,342.92 million.
 - 45.1.3 The Company had obligations under the Shareholder Agreements to pay for ordinary shares in proportion to its shareholding. As at December 31, 2016, the Company had remaining obligations amounting to Baht 4,833.34 million.
- 45.2 Commitments under operating leases the Group as a lessee, the future minimum lease payments under uncancellable operating leases as at December 31, 2016 and 2015 are as follows:

	Unit: Milli			Unit: Million Baht	
	Consolidated financial statements			Separate financial statements	
	2016	2015	2016	2015	
Within 1 year	2,195.82	2,571.37	66.39	76.82	
Over 1 year but not over 5 years	5,046.53	5,815.44	315.60	300.51	
Over 5 years	5,681.37	5,217.06	1,131.64	1,048.57	
Total	12,923.72	13,603.87	1,513.63	1,425.90	

45. Commitments and Contingent Liabilities (Continued)

- 45.3 As at December 31, 2016, the Group had capital commitments of Baht 18,823.93 million in the consolidated financial statements.
- 45.4 As at December 31, 2016, the Group had outstanding letters of credit of Baht 17,422.82 million in the consolidated financial statements and Baht 5,342.43 million in the separate financial statements.
- 45.5 As at December 31, 2016, the Group had contingent liabilities in the form of letter of guarantee amounting to Baht 26,367.14 million in the consolidated financial statements and Baht 127.30 million in the separate financial statements.
- 45.6 A subsidiary entered into a contract to sell a product to the Company and the Company entered into a contract to resell the same product to a listed company. The term of the two contracts was 15 years, expiring on January 31, 2012. Before the expiration of the contract, the subsidiary notified the Company that the contract would not be renewed. Consequently, without product to resell, the Company had to notify the listed company that the contract would also not be renewed. The Company's notice was served to the listed company in accordance with the terms and conditions set forth in the contract. On December 3, 2009, the listed company submitted claims with the Thai Arbitration Institute (the Institute) requesting that the Company and the subsidiary, as the seller and the supplier, respectively, comply with the contracts by continuing to sell the product to the listed company or be jointly liable to pay damages.

On February 10, 2010, the subsidiary submitted motion with the Institute asking to dismiss the claims against it from the case list. The Institute issued an order to dismiss the claims relating to the subsidiary.

The Company forwarded the case to the Office of the Attorney General to submit a defense to the Institute. On April 28, 2010, the public prosecutor submitted the defense with the Institute for the Company. The tribunal finished the witness examination. Consequently, on March 25, 2016, the tribunal ruled that the Company make a partial payment for damages to the listed company. However, the Company was of the opinion that the arbitral award might be both factually and legally inconsistent. Therefore, the Company will exercise its legal right by filing a motion with the court requesting the arbitral award be revoked. On June 30, 2016, the Company by the public prosecutor filed a motion to revoke the arbitral award with the Civil Court. Currently, this case is under the consideration of the Civil Court. Subsequently, on December 16, 2016, the listed company submitted a motion with the Civil Court asking for the enforcement of the arbitral award. The Company is in the process of forwarding the case to the office of Attorney General for the submission of the motion to object and proceeding of the case.

45. Commitments and Contingent Liabilities (Continued)

45.7 On May 26, 2010, the contractor for an onshore natural gas pipeline construction project (the "Contractor") submitted claims to the Thai Arbitration Institute (the Institute) seeking overdue payment and damages from the Company for the work performed in connection with the project. The Company, however, considered that the submission of the claims was incompliant with the dispute resolution procedure agreed upon under the contract. Therefore, the Company filed an opposition to the Contractor's claim submission with the Institute and reserved right to protest such contractually incompliant claim submission in the arbitration procedure. After the claim submission, the Central Bankruptcy Court ordered the Contractor be under an absolute receivership which rendered the official receiver to have sole power in any litigation pertaining to the Contractor's assets. Subsequently, the Contractor's official receiver has petitioned the Institute to substitute the Contractor in the dispute against the Company. Regarding the Contractor's bankruptcy case, the Company submitted, as a creditor, a motion for receiving a debt payment in accordance with the law. With respect to the arbitration process, the Company submitted the defense together with counterclaims seeking damages from the Contractor. Subsequently, the arbitral tribunal rendered an award ordering the Company to partially pay for the Contractor's claims. However, the Company considered that the arbitral award is materially erroneous both in fact and in law, in which case, the Company has a right to protest against such award with the Court of competent jurisdiction requesting for the revocation of the award and therefore the Company has filed the motion to revoke the arbitral award with the Central Administrative Court. Currently the Central Administrative Court has summoned the contractor to submit its opposition and the case is now under the consideration of the Court. The Contractor submitted a motion with the Civil Court asking for the enforcement of the arbitral award. The Company by the public prosecutor already field a motion to object with the Civil Court. Currently, the case is under the consideration of the Civil Court.

On September 8, 2010, the Contractor by the official receiver submitted the claims to the Institute seeking overdue payment and damages from the Company for the work performed in connection with another pipeline construction project. The Company, however, considered that the submission of the claims was incompliant with the dispute resolution procedure agreed upon under the contract. Therefore, the Company filed an opposition to the Contractor's claim submission with the Institute and reserved the right to protest such contractually incompliant claim submission in the arbitration procedure. In contention against the alleged claims, the Company submitted the defense together with counterclaims seeking damages from the Contractor. Currently, the arbitral tribunal has been appointed and the case is now under the consideration of the tribunal.

45.8 On September 22, 2011, six petitioners, led by the Thailand Watch Foundation filed, a lawsuit against the Company and the Ministry of Finance with the Central Administrative Court (the Court) alleging that the Company's privatization, the share distribution and the asset evaluation were in violation of law, and therefore, asked for the Court's judgment that the sale of the Company's shares be null and void and the shares be resold. The petitioners also asked that the shares in oil refinery plants owned by the Company be returned to state ownership or be sold to the public in order to cease the Company's monopoly in the oil refinery industry. In addition, the petitioners sought the Court's order of the confiscation of the Company's properties, which had been obtained by operation of public law or the force-sale of the Company's gas separation plants to discontinue the monopoly. In response, the Company rejected all allegations and forwarded the case to the office of the Attorney Genearal for the submission of the answer and the public prosecutor already submitted the answer with the Court. Subsequently on June 30, 2016, the Court issued an order to revoke the acceptance of the complaint and to dismiss the case.

45. Commitments and Contingent Liabilities (Continued)

- 45.9 On February 25, 2014, the contractor for an on-shore natural gas pipeline construction project (the "Contractor") filed a lawsuit against the Company with the Civil Court on the grounds of wrongful termination and breach of contract and claimed for outstanding payment of the work and damages. On the contrary, the Company considered that all of the Company's actions have been in accordance with the terms and conditions of the contract. Therefore, the Company forwarded the case to the Office of The Attorney General for consideration to arguing the case for the Company and the prosecutor has submitted the answer with the Court. Consequently, the Court ordered the case be transferred to the Central Administrative Court for consideration and judgment because the Civil Court and the Central Administrative Court has the corresponding opinions that this case was an administrative case. The Civil Court transferred this case to the Central Administrative Court. Currently, the case is under the consideration of the Central Administrative Court.
- 45.10 On August 26, 2010, PTTEP Australasia (PTTEP AA) received a letter from the Government of Indonesia (Gol) claiming compensation relating to an incident in 2009 when oil and natural gas leaked from a well in PTTEP AA's Montara project in Australian territory in the Timor Sea. PTTEP AA rejected the claim on the basis that the evidence provided by the Gol was considered unproven and unsubstantiated. No verifiable scientific evidence was ever provided to support the claim. No further communication on the claim has been received by PTTEP AA from the Gol since December, 2012.

On March 11, 2016, PTTEP AA received a letter from a firm of Australia lawyers representing a group of West Timorese seaweed farmers, notifying PTTEP AA of their intention to commence a legal action for compensation relating to the 2009 Montara incident. Subsequently, on August 9, 2016 the company was notified of a claim made in the Sydney Registry of the Federal Court of Australia seeking damages on behalf of a group of seaweed farmers (the Class Action). The Statement of Claim as filed does not quantify the claim, and no supporting evidence has yet been presented to the court. PTTEP AA has appointed lawyers and is defending the claim.

Currently, PTTEP considers that the claims from the Gol and the Class Action remain unproven and unsubstantiated.

45.11 During the third quarter of 2014, the number of people in Rayong filed several lawsuits with the Civil Court and Rayong Provincial Court against PTTGC to claim the extra compensation from oil spill incident and to perform the rehabilitation of the sea and natural environmental recovery. Some cases have been dismissed and some cases have been passed a judgement by the Civil Court on August 25, 2016 ordered PTTGC to compensate for damages including interest and rehabilitation, of approximately Baht 11.26 million. PTTGC is considering the Court judgment to prepare for an appeal. Nevertheless, there are remaining cases that are still on trial by Rayong Provincial Court, in which PTTGC believes that the outcome of the consideration will not result in material damage and material financial impact to PTTGC. Therefore, PTTGC has not provided against any loss that may result from this matter in the financial statements.

46. Other Events

- 46.1 On April 4, 2016, the Ombudsman of Thailand submitted a complaint to the Administrative Court (the Court) against the Minister of Finance, the Minister of Energy, the Company and other defendants as the black case No. 510/2559, requesting the Court as follows:
 - 1) To revoke the Cabinet Resolutions on December 18, 2007 and August 10, 2010.
 - 2) To order the Minister of Finance, the Minister of Energy and the Company to conduct a separation and transfer of net assets according to the plaintiff's allegation as of September 30, 2001 amounting to Baht 68,569.69 million, including other compensations and benefits.
 - 3) To revoke the separation of public assets and the preferential rights to establish the gas pipeline system according to the plaintiff's allegation.

On May 26, 2016, the Court ordered the Company to submit a defense, responding to the particular issue that was whether the Company completely transferred the assets of the Petroleum Authority of Thailand (the tenth defendant), which were public assets, to the first defendant (the Minister of Finance) in accordance with the Cabinet Resolution on December 18, 2007. The public prosecutor already submitted the answer and the additional answer with the Court. The case is currently under the consideration of the Court.

Nevertheless, on December 14, 2007, the Supreme Administrative Court in red case No. Fo. 35/2550, rendered the judgment ordering the co-defendants to mutually transfer the public assets to the Minister of Finance, according to the judgment. Therefore, on December 18, 2007, the cabinet acknowledged the aforesaid judgment and ordered the Minister of Finance and the Minister of Energy to mutually conduct with the judgment. On December 26, 2008, the Supreme Administrative Court declared that the Company and all relevant organizations had completely complied with the judgment of the Supreme Administrative Court. Furthermore, the plaintiff and the co-plaintiffs had submitted a complaint regarding the separation of public assets to the Court for four times. The Court had ordered to dismiss the case and reaffirmed that the judgment of the red case No. Fo. 35/2550 was completed. Consequently, on August 10, 2010, the cabinet acknowledged the conduct of the Supreme Administrative Court judgment in accordance with the proposals of the Minister of Energy and of the Minister of Finance.

46.2 On November 18, 2016, at the Board of Directors Meeting No. 11/2016 of the Company, the Board passed a resolution to approved the restructuring of the Company by means of the transfer of the oil business unit, including of the assets and liabilities of the business unit, and the shares of companies related to the oil business unit from the Company to PTT Retail Business Company Limited (PTTRB), the change of PTTRB's name to PTT Oil and Retail Business Company Limited (PTTOR) and the preliminary plan for initial public offering of ordinary shares of PTTOR. In addition, the Board passed a resolution to proceed with the request of approval from the relevant agencies, e.g. the Ministry of Energy, The Board of Directors of State Enterprise Policy Office ("Superboard"), the Cabinet, and the shareholders' meeting of the Company to consider and approve the aforementioned transaction in accordance with the relevant rules and regulations.

46. Other Events (Continued)

46.3 On December 16, 2016, at the Board of Directors Meeting No. 12/2016 of the Company, the Board passed a resolution to approve the transfer of all shares the Company holds in HMC Polymers Co., Ltd. (HMC), PTT Asahi Chemicals Co., Ltd. (PTTAC), PTT MCC Biochem Co., Ltd. (PTTMCC), PTT Polymer Marketing Co., Ltd. (PTTPM), PTT Polymer Logistics Co., Ltd. (PTTPL), and PTT Maintenance & Engineering Co., Ltd. (PTTME) to PTT Global Chemical Public Co., Ltd. (PTTGC). In addition, the Board passed a resolution to approve PTT PMMA Co., Ltd. (PTTPMAA), in which the Company holds 100% of shares, to transfer the rights to operate all of the PMMA Projects including any other relevant assets (collectively, the "Target Entities") to PTTGC as agreed. The total value of the transfer is approximately Baht 26,300 million. However, the transfer of all shares and assets of the Target Entities is expected to be completed following the satisfaction of all conditions precedent (CPs), unless a waiver is granted.

However, on February 14, 2017, at the Board of Directors Meeting No. 2/2017 of PTTGC, the Board passed a resolution to submit for approval at the Annual General Meeting of the Shareholders for the aforementioned transaction with the Company, whereby a resolution of the shareholders meeting shall require no less than three-quarters of the votes of the shareholders present in the meeting and have the right to vote, excluding the votes of the interested shareholders.

47. Events after the Reporting Period

47.1 The board of directors of the Company approved these financial statements for public issuance on February 16, 2017.

Audit Fee

The Company and its subsidiaries paid audit fees to auditor's office for the completed accounting period amounting to Baht 141,391,524 (One hundred forty-one million three hundred ninety-one thousand five hundred and twenty-four Baht). In addition, the Company and its subsidiaries paid non-audit fee for the professional services fees, including the Updated Offering Memorandum of the Global Medium Term Notes Programme, professional fees for financial statements certification submitted to the Revenue Department, and other certification fees for the completed accounting period amounting to Baht 13,322,301 (Thirteen million three hundred twenty-two thousand three hundred and one Baht).



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