

Independent Auditor's Report

To the Shareholders of Global Power Synergy Public Company Limited

My opinion

In my opinion, the consolidated financial statements of Global Power Synergy Public Company Limited (the Company) and its subsidiaries (the Group) and the separate financial statements of the Company present fairly, in all material respects, the consolidated and separate financial position of the Group and of the Company as at 31 December 2019, and its consolidated and separate financial performance and its consolidated and separate cash flows for the year then ended in accordance with Thai Financial Reporting Standards (TFRSs).

What I have audited

The consolidated financial statements and the separate financial statements comprise:

- the consolidated and separate statements of financial position as at 31 December 2019;
- the consolidated and separate statements of income for the year then ended;
- the consolidated and separate statements of comprehensive income for the year then ended;
- the consolidated and separate statements of changes in equity for the year then ended;
- the consolidated and separate statements of cash flows for the year then end; and
- the notes to the consolidated and separate financial statements, which include a summary of significant accounting policies.

Basis for opinion

I conducted my audit in accordance with Thai Standards on Auditing (TSAs). My responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the consolidated and separate financial statements section of my report. I am independent of the Group and the Company in accordance with the Federation of Accounting Professions under the Royal Patronage of his Majesty the King's Code of Ethics for Professional Accountants together with the ethical requirements that are relevant to my audit of the consolidated and separate financial statements, and I have fulfilled my other ethical responsibilities in accordance with these requirements. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

Key audit matters

Key audit matters are those matters that, in my professional judgment, were of most significance in my audit of the consolidated and separate financial statements of the current period. These matters were addressed in the context of my audit of the consolidated and separate financial statements as a whole, and in forming my opinion thereon, and I do not provide a separate opinion on these matters.

Key audit matter	How my audit addressed the key audit matter
<p><i>Business combination</i></p> <p>As disclosed in Note 14.1 - Investments in subsidiaries, the Group paid cash consideration of Baht 93,001 million to acquire a 69.11% shareholding of Glow Energy Public Company Limited (Glow) which engages in generating and supplying electricity, steam and water for industrial use. Management identified the acquisition of this shareholding qualified as a business combination according to the definition in TFRS 3 "Business combination".</p> <p>The management engaged the external valuer to appraise the fair value of net identifiable assets acquired. The fair value of net identifiable assets acquired was Baht 89,003 million, mainly comprised property, plant and equipment of Baht 75,336 million, intangible assets (right to power purchase agreements) of Baht 44,480 million and liabilities assumed of Baht 66,497 million. The valuation of net assets acquired was performed as part of the purchase price allocation.</p> <p>I focused on the identification of the fair value of intangible assets arising from the business combination because the external valuer applied the discounted cash flows that the model involves significant estimation and judgement made by the management to assess the future cash flows and discounted rate applied for the future cash flows.</p>	<p>I carried out the following procedures in order to obtain evidence of the management's assessment of acquisition of shareholding and determination of fair value of net identifiable assets acquired:</p> <ul style="list-style-type: none"> • Read the share purchase agreement to understand the key terms and conditions and confirmed our understanding of the transaction with the management. • Reviewed management's assessment that the acquisition of investment should be accounted for as the investment in a subsidiary and application of accounting for business combination. • Assessed the appropriateness of the identifiable assets acquired and the liabilities assumed at the acquisition date and also evaluated management's procedures for determining the fair values of the net identifiable assets acquired. • Evaluated the competency, qualifications, experience and objectivity of management's experts. • Tested the calculation of fair values intangible assets and also challenged management's significant assumptions used in the estimation of future cash flows, for example the electricity tariffs, assumed capacity of the power plants, operating expenditures, and capital structure by comparing those assumptions to the underlying agreements and external sources. • Assessed the discount rate, taking into account independently obtained data from available public information of companies in the industry. <p>As a result of the procedures performed, I determined that the acquisition of shareholding of Glow is the business combination in accordance with the definition set out in TFRS 3. The assumptions used in identifying the fair values of intangible assets arising from the business combination were reasonable and in line with the accounting for the business combination.</p>

Key audit matter	How my audit addressed the key audit matter
<p><i>Impairment assessment of goodwill</i></p> <p>Refer to Note 19 Goodwill, as at 31 December 2019, the Group had goodwill of Baht 36,104 million, which represents 14% of the total consolidated assets. Goodwill of Baht 36,089 million arose from the acquisition of shareholding of Glow Energy Public Company Limited (Glow) which engages in generating and supplying electricity, steam and water for industrial use. The Group did not recognise an impairment loss in the 2019 consolidated financial statements.</p> <p>Management tests the impairment of goodwill annually. The impairment test is performed at level of cash generating unit (CGU) and calculates its recoverable amount by applying the value-in-use model. This model involves significant judgements made by the management in respect to the future operating results of business, projected cash flows and the discount rate to be applied to the projected cash flows. Key assumptions applied in the value-in-use model are electricity tariffs, assumed capacity of the power plants, growth rate, expected changes to operating expenditures, capital structure and discount rate applied to the projected cash flows.</p> <p>I focused on the valuation of goodwill arising from the acquisition of shareholding of Glow due to its significant value and the fact that the determination of value-in-use depends on a number of assumptions. Those assumptions involve management's significant judgements in assessing the feasibility of future business plans.</p>	<p>I carried out the following procedures to assess the impairment testing of goodwill arising from the acquisition of shareholding of Glow which prepared by the management.</p> <ul style="list-style-type: none"> • Satisfied myself as to the appropriateness of management's identification of the CGUs. • Held discussions with management to understand the basis for the assumptions applied and evaluated whether the goodwill impairment testing process and assumptions had been applied consistently across the Group. • Challenged management's significant assumptions used in the goodwill impairment testing, especially the electricity tariffs, assumed capacity of the power plants, growth rate, operating expenditures, and discount rate. My procedures included comparing those assumptions to the underlying agreements, external sources, foreign exchange rate forecasts and the approved business plan. • Assessed reasonableness of the business plan by comparing the 2019 plan with actual results. • Assessed the discount rate, taking into account independently obtained data from available public information of companies in the industry to see whether the discount rate used by the management was within the acceptable range. • Tested the sensitivity analysis of key assumptions in the model prepared by the management in order to assess factors to be sensitive to assumptions and the potential impact of range possible outcomes. <p>As a result of the procedures performed, the key assumptions used by the management are within the reasonable range and none of the items noted above resulted in a change to the impairment testing by the management.</p>

Other information

The directors are 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 my auditor's report thereon.

My opinion on the consolidated and separate financial statements does not cover the other information and I do not express any form of assurance conclusion thereon.

In connection with my audit of the consolidated and separate financial statements, my responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the consolidated and separate financial statements or my knowledge obtained in the audit or otherwise appears to be materially misstated. If, based on the work I have performed, I conclude that there is a material misstatement of this other information, I am required to report that fact. I have nothing to report in this regard.

Responsibilities of management 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, management is responsible for assessing the Group and the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern 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.

The audit committee assists the directors in discharging their responsibilities for overseeing the Group and the Company's financial reporting process.

Auditor's responsibilities for the audit of the consolidated and separate financial statements

My 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 my 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, I exercise professional judgment and maintain professional scepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the consolidated and separate financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my 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.
- Obtain 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 and the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.

- Conclude on the appropriateness of 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 and the Company's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the consolidated and separate financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Group and the Company to cease to continue as a going concern.
- Evaluate 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.
- Obtain 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. I am responsible for the direction, supervision and performance of the group audit. I remain solely responsible for my audit opinion.

I communicate with audit committee regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

I also provide the audit committee with a statement that I have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on my independence, and where applicable, related safeguards.

From the matters communicated with the audit committee, I determine 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. I describe these matters in my auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, I determine that a matter should not be communicated in my report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

PricewaterhouseCoopers ABAS Ltd.

Amornrat Pearmpoonvatanasuk
 Certified Public Accountant (Thailand) No. 4599
 Bangkok
 12 February 2020

GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED

**CONSOLIDATED AND SEPARATE
FINANCIAL STATEMENTS**

31 DECEMBER 2019

Global Power Synergy Public Company Limited
Statement of Financial Position
As at 31 December 2019

	Notes	Consolidated financial statements		Separate financial statements	
		2019	2018	2019	2018
		Baht	Baht	Baht	Baht
Assets					
Current assets					
Cash and cash equivalents	7	18,838,686,740	5,659,762,539	2,327,875,235	4,851,403,945
Deposits at financial institutions used as collateral	8	249,699,685	339,637,902	-	-
Short-term investments	9	964,894,072	10,000,000	-	-
Trade receivables	10,34	10,084,011,483	4,308,081,505	2,477,787,185	2,929,904,862
Current portion of finance lease receivable	11	1,106,224,158	700,861,334	652,484,784	700,861,334
Other receivables	12,34	582,541,450	273,025,289	192,965,831	146,010,584
Dividends receivable	14.4,34	102,200,010	89,833,356	12,082,185,030	89,833,343
Current portion of long-term loans to related parties	34	-	-	47,760,000	47,760,000
Fuel, spare parts and supplies, net	13	6,723,501,081	626,865,620	524,904,915	499,131,522
Other current assets		267,563,593	155,810,190	197,242,177	127,633,509
Total current assets		38,919,322,272	12,163,877,735	18,503,205,157	9,392,539,099
Non-current assets					
Finance lease receivable, net	11	7,578,472,501	4,653,328,462	4,142,763,697	4,653,328,462
Deposits at financial institutions used as collateral	8	200,000,000	-	-	-
Investments in associates	14	7,966,741,711	7,065,122,104	923,750,000	923,750,000
Investments in joint ventures	14	2,658,425,600	2,700,254,834	2,679,729,090	2,613,033,490
Investments in subsidiaries	14	-	-	143,925,140,748	9,378,179,442
Other long-term investments	15	3,276,145,245	3,213,555,248	3,274,645,245	3,213,555,248
Long-term loans to and interest receivables from related parties, net	34	3,479,470,400	3,061,023,026	3,351,199,848	3,264,003,026
Property, plant and equipment, net	16	101,271,956,827	28,535,210,307	17,143,035,310	15,871,156,398
Assets not used in operation		64,315,015	70,614,997	-	-
Intangible assets, net	17,34	46,062,394,795	2,280,997,197	212,680,072	244,989,777
Goodwill	18	36,103,998,804	15,043,157	-	-
Deferred tax assets, net	26	3,118,315,732	133,546	-	-
Other non-current assets, net	34	1,317,056,903	679,862,807	504,230,732	626,784,233
Total non-current assets		213,097,293,533	52,275,145,685	176,157,174,742	40,788,780,076
Total assets		252,016,615,805	64,439,023,420	194,660,379,899	50,181,319,175

For Director _____

Date _____

The notes to the consolidated and separate financial statements on pages 16 to 82 are on integral part of these financial statements.

Global Power Synergy Public Company Limited
Statement of Financial Position
As at 31 December 2019

		Consolidated		Separate	
		financial statements		financial statements	
	Notes	2019	2018	2019	2018
		Baht	Baht	Baht	Baht
Liabilities and equity					
Current liabilities					
Short-term loans	21	19,252,714,700	-	19,252,714,700	-
Trade payables	19,34	4,581,360,561	1,901,499,045	1,428,985,394	1,178,598,397
Other payables	20,34	3,551,307,107	991,922,016	1,037,474,140	739,224,186
Payable for assets under construction		749,505,116	556,952,482	438,007,405	541,424,174
Short-term loans from related parties	34	4,913,056,463	-	4,913,056,463	-
Current portion of long-term loans from financial institutions, net	23	2,565,695,602	1,052,161,534	352,500,000	-
Provision		-	101,170,772	-	101,170,772
Other current liabilities	22	1,134,483,120	123,659,090	63,426,286	47,299,143
Total current liabilities		36,748,122,669	4,727,364,939	27,486,164,388	2,607,716,672
Non-current liabilities					
Long-term loans from financial institutions, net	23	26,648,909,793	11,456,886,336	1,639,585,063	1,991,185,106
Debentures, net	24	52,707,480,124	4,994,969,991	39,947,819,898	4,994,969,991
Provisions for employee benefits		565,640,993	140,392,508	163,447,019	115,484,401
Deferred tax liabilities, net	26	10,374,644,430	491,683,312	299,610,673	396,709,611
Retention		245,314,692	173,822,848	242,651,176	173,483,033
Other non-current liabilities	25,34	14,550,793,993	104,825,140	338,613,143	104,825,140
Total non-current liabilities		105,092,784,025	17,362,580,135	42,631,726,972	7,776,657,282
Total liabilities		141,840,906,694	22,089,945,074	70,117,891,360	10,384,373,954

The notes to the consolidated and separate financial statements on pages 16 to 82 are an integral part of these financial statements.

Global Power Synergy Public Company Limited
Statement of Financial Position
As at 31 December 2019

		Consolidated		Separate	
		financial statements		financial statements	
		2019	2018	2019	2018
	Notes	Baht	Baht	Baht	Baht
Liabilities and equity (continued)					
Equity					
Share capital					
Authorised share capital					
2,819,729,371 ordinary shares at par value					
of Baht 10 per share					
(2018: 1,498,300,800 ordinary shares					
at par value of Baht 10 per share)					
	27	28,197,293,710	14,983,008,000	28,197,293,710	14,983,008,000
Issued and paid-up share capital					
2,819,729,371 ordinary shares paid-up at					
Baht 10 per share					
(2018: 1,498,300,800 ordinary shares					
paid-up at Baht 10 per share)					
	27	28,197,293,670	14,983,008,000	28,197,293,670	14,983,008,000
Premium on ordinary shares	27	70,175,900,837	9,485,108,656	70,175,900,837	9,485,108,656
Deficit from the change in the ownership interests					
in subsidiaries	14	(14,991,990,030)	-	-	-
Other surpluses (deficits)		(1,118,213,914)	(1,118,213,914)	78,467,400	78,467,400
Retained earnings					
Appropriated					
Legal reserve					
	28	1,479,829,878	840,417,052	1,479,829,878	840,417,052
Unappropriated					
		17,273,535,988	15,804,942,811	24,610,996,754	14,409,944,113
Other components of equity		(123,326,481)	(3,297,476)	-	-
Equity attributable to owners of the parent					
		100,893,029,948	39,991,965,129	124,542,488,539	39,796,945,221
Non-controlling interests	14	9,282,679,163	2,357,113,217	-	-
Total equity					
		110,175,709,111	42,349,078,346	124,542,488,539	39,796,945,221
Total liabilities and equity					
		252,016,615,805	64,439,023,420	194,660,379,899	50,181,319,175

The notes to the consolidated and separate financial statements on pages 16 to 82 are on integral part of these financial statements.

Global Power Synergy Public Company Limited

Statement of Income

For the year ended 31 December 2019

	Notes	Consolidated financial statements		Separate financial statements	
		2019	2018	2019	2018
		Baht	Baht	Baht	Baht
Revenue from sales and services		65,789,108,308	24,337,292,075	17,933,077,924	17,414,789,335
Revenue from finance lease		773,388,667	542,850,437	481,004,268	542,850,437
Cost of sales and services		(55,063,384,627)	(20,298,563,523)	(15,721,116,727)	(15,067,610,088)
Gross profit		11,499,112,348	4,581,578,989	2,692,965,465	2,890,029,684
Dividend income	14,15	185,405,246	135,005,250	14,003,261,279	706,588,665
Other income		732,872,220	285,607,230	307,147,357	303,609,655
Currency exchange gain (loss), net		317,397,809	(14,668,312)	(23,291,547)	(12,969,372)
Administrative expenses		(2,183,686,864)	(936,606,949)	(1,107,657,805)	(856,708,349)
Finance costs	30	(5,139,879,386)	(513,720,040)	(3,169,670,861)	(134,277,339)
Share of profit from investments in associates and joint ventures, net	14	837,086,013	594,808,814	-	-
Profit before income tax		6,248,307,386	4,132,004,982	12,702,753,888	2,896,272,944
Income tax	31	(247,490,606)	(242,792,153)	85,502,619	(247,849,628)
Profit for the year		6,000,816,780	3,889,212,829	12,788,256,507	2,648,423,316
Profit attributable to					
Owners of the parent		4,060,796,564	3,359,187,203	12,788,256,507	2,648,423,316
Non-controlling interests		1,940,020,216	530,025,626	-	-
		6,000,816,780	3,889,212,829	12,788,256,507	2,648,423,316
Earnings per share					
Basic earnings per share	32	2.25	2.24	7.10	1.77

The notes to the consolidated and separate financial statements on pages 16 to 82 are an integral part of these financial statements.

Global Power Synergy Public Company Limited
Statement of Comprehensive income
For the year ended 31 December 2019

	Consolidated		Separate	
	financial information		financial information	
	2019	2018	2019	2018
	Baht	Baht	Baht	Baht
Profit for the year	6,000,816,780	3,889,212,829	12,788,256,507	2,648,423,316
Other comprehensive income (expense) :				
Items that will be reclassified subsequently to profit or loss				
Exchange differences on translation of financial statements	(146,040,583)	3,983,166	-	-
Items that will not be reclassified subsequently to profit or loss				
Remeasurement of post-employment benefit obligations, net of tax	(4,999,521)	(45,162,129)	-	(42,593,231)
Other comprehensive expense for the year, net of tax	(151,040,104)	(41,178,963)	-	(42,593,231)
Total comprehensive income for the year	5,849,776,676	3,848,033,866	12,788,256,507	2,605,830,085
Total comprehensive income attributable to				
Owners of the parent	3,935,768,038	3,317,961,330	12,788,256,507	2,605,830,085
Non-controlling interests	1,914,008,638	530,072,536	-	-
	5,849,776,676	3,848,033,866	12,788,256,507	2,605,830,085

The notes to the consolidated and separate financial statements on pages 16 to 82 are an integral part of these financial statements.

Global Power Synergy Public Company Limited

Statement of Changes in Equity

For the year ended 31 December 2019

Consolidated financial statements											
Attributable to owners of the parent											
Notes	Issued and paid-up share capital Baht	Premium on ordinary shares Baht	Deficit from the change in the ownership interests in subsidiaries Baht	Other deficits Baht	Retained earnings		Other components of equity		Total equity attributable to owners of the parent Baht	Non-controlling interests Baht	Total equity Baht
					Appropriated - Legal reserve Baht	Unappropriated Baht	Exchange differences on translation of financial statements Baht	Other comprehensive expense Baht			
Opening balance as at 1 January 2018	14,983,008,000	9,485,108,656	-	(1,118,213,914)	707,995,886	14,496,214,903	(7,233,732)	38,546,879,799	1,827,040,681	40,373,920,480	
Changes in equity for the year											
Legal reserved	28	-	-	-	-	132,421,166	(132,421,166)	-	-	-	-
Dividend		-	-	-	-	-	(1,872,876,000)	-	(1,872,876,000)	-	(1,872,876,000)
Total comprehensive income (expense) for the year											
Profit for the year		-	-	-	-	-	3,359,187,203	-	3,359,187,203	530,025,626	3,889,212,829
Other comprehensive expense		-	-	-	-	-	(45,162,129)	3,936,256	(41,225,873)	46,910	(41,178,963)
Closing balance as at 31 December 2018		14,983,008,000	9,485,108,656	-	(1,118,213,914)	840,417,052	15,804,942,811	(3,297,476)	39,991,965,129	2,357,113,217	42,349,078,346
Opening balance as at 1 January 2019		14,983,008,000	9,485,108,656	-	(1,118,213,914)	840,417,052	15,804,942,811	(3,297,476)	39,991,965,129	2,357,113,217	42,349,078,346
Changes in equity for the year											
Increasing in share capital	27	13,214,285,670	60,690,792,181	-	-	-	-	-	73,905,077,851	-	73,905,077,851
Legal reserved	28	-	-	-	-	639,412,826	(639,412,826)	-	-	-	-
Dividend	33	-	-	-	-	-	(1,947,791,040)	-	(1,947,791,040)	(1,266,083,736)	(3,213,874,776)
Acquisition of subsidiaries	14	-	-	-	-	-	-	-	-	32,091,923,135	32,091,923,135
Change in the ownership interests in subsidiaries	14	-	-	(14,991,990,030)	-	-	-	-	(14,991,990,030)	(25,814,282,091)	(40,806,272,121)
Total comprehensive income (expense) for the year											
Profit for the year		-	-	-	-	-	4,060,796,564	-	4,060,796,564	1,940,020,216	6,000,816,780
Other comprehensive expense		-	-	-	-	-	(4,999,521)	(120,029,005)	(125,028,526)	(26,011,578)	(151,040,104)
Closing balance as at 31 December 2019		28,197,293,670	70,175,900,837	(14,991,990,030)	(1,118,213,914)	1,479,829,878	17,273,535,988	(123,326,481)	100,893,029,948	9,282,679,163	110,175,709,111

The notes to the consolidated and separate financial statements on pages 16 to 82 are on integral part of these financial statements.

Statement of Changes in Equity

For the year ended 31 December 2019

Separate financial statements						
Notes	Issued and paid-up share capital Baht	Premium on share capital Baht	Other surpluses Baht	Retained earnings		Total equity Baht
				Appropriated- legal reserve Baht	Unappropriated Baht	
Opening balance as at 1 January 2018	14,983,008,000	9,485,108,656	78,467,400	707,995,886	13,809,411,194	39,063,991,136
Changes in equity for the year						
Legal reserved	28	-	-	132,421,166	(132,421,166)	-
Dividend		-	-	-	(1,872,876,000)	(1,872,876,000)
Total comprehensive income (expense) for the year						
Profit for the year		-	-	-	2,648,423,316	2,648,423,316
Other comprehensive expense		-	-	-	(42,593,231)	(42,593,231)
Closing balance as at 31 December 2018	<u>14,983,008,000</u>	<u>9,485,108,656</u>	<u>78,467,400</u>	<u>840,417,052</u>	<u>14,409,944,113</u>	<u>39,796,945,221</u>
Opening balance as at 1 January 2019	14,983,008,000	9,485,108,656	78,467,400	840,417,052	14,409,944,113	39,796,945,221
Changes in equity for the year						
Increasing in share capital	27	13,214,285,670	60,690,792,181	-	-	73,905,077,851
Legal reserved	28	-	-	639,412,826	(639,412,826)	-
Dividend	33	-	-	-	(1,947,791,040)	(1,947,791,040)
Total comprehensive income (expense) for the year						
Profit for the year		-	-	-	12,788,256,507	12,788,256,507
Other comprehensive income (expense)		-	-	-	-	-
Closing balance as at 31 December 2019	<u>28,197,293,670</u>	<u>70,175,900,837</u>	<u>78,467,400</u>	<u>1,479,829,878</u>	<u>24,610,996,754</u>	<u>124,542,488,539</u>

The notes to the consolidated and separate financial statements on pages 16 to 82 are on integral part of these financial statements.

Statement of Cash Flows

For the year ended 31 December 2019

	Notes	Consolidated financial statements		Separate financial statements	
		2019	2018	2019	2018
		Baht	Baht	Baht	Baht
Cash flows from operating activities					
Profit before income tax for the year		6,248,307,386	4,132,004,982	12,702,753,888	2,896,272,944
Adjustments to reconcile profit before					
income tax to net cash from operating activities					
- Depreciation and amortisation		7,078,559,509	1,802,036,578	1,294,957,380	1,123,730,150
- Interest income		(240,017,707)	(245,619,692)	(229,009,476)	(248,277,485)
- Dividend income	14, 15	(185,405,246)	(135,005,250)	(14,003,261,279)	(706,588,665)
- (Reversal) loss on impairment	15, 17	135,282,612	(95,062,290)	-	-
- Loss on disposal of building and					
equipment, net		108,802,086	9,344,606	2,054,679	9,344,606
- Loss on disposal of assets not in use		-	101,867,203	-	-
- Finance costs	30	5,139,069,850	513,720,040	3,169,670,861	134,277,339
- Recognition of advance received for long-term					
right to grant of assets		(32,680,608)	-	-	-
- Unrealised loss (gain) on exchange rates		(263,524,226)	17,647,028	12,465,055	16,577,830
- Realised loss on exchange rates		-	-	4,828,731	-
- Write-off withholding tax		3,275	-	-	-
- Loss on allowance for obsolescence of					
spare parts and supplies		71,477,071	-	-	-
- Write-off fuel, spare parts and supplies		390,224	-	390,224	-
- Share of profit from investments in associates					
and joint ventures	14	(837,086,013)	(594,808,814)	-	-
- Provisions for employee benefits		168,035,173	11,565,235	55,136,898	9,046,346
Cash flows before changes in working capital		17,391,213,386	5,517,689,626	3,009,986,961	3,234,383,065
Changes in working capital					
(excluding the effect of acquisition of subsidiaries)					
- Trade receivables		355,727,086	(543,391,223)	452,117,677	(54,426,920)
- Other receivables		(11,160,582)	227,580,731	(36,938,782)	127,849,933
- Finance lease receivable		655,149,669	605,187,023	558,941,314	605,187,023
- Fuel, spare parts and supplies		(656,253,633)	(142,080,018)	(26,163,618)	(30,367,489)
- Other current assets		(18,873,382)	67,308,083	(12,278,798)	(46,509,612)
- Other non-current assets		(740,717,037)	(395,260,418)	(16,494,526)	(428,879,633)
- Trade payables		(448,658,108)	278,631,898	250,386,997	140,052,013
- Other payables		(1,617,970)	377,278,741	112,853,521	237,736,616
- Other current liabilities		29,405,213	45,817,871	11,845,681	9,803,551
- Retirement benefit paid		(8,105,414)	(4,277,018)	(7,174,280)	(4,220,800)
- Other non-current liabilities		1,886,544,450	174,805,391	211,254,536	262,756,775
Cash generated from operating activities		18,432,653,678	6,209,290,687	4,508,336,683	4,053,364,522
- Tax paid		(1,079,197,651)	(361,177,139)	(64,644,727)	(338,016,371)
Net cash generated from operating activities		17,353,456,027	5,848,113,548	4,443,691,956	3,715,348,151

The notes to the consolidated and separate financial statements on pages 16 to 82 are an integral part of these financial statements.

Global Power Synergy Public Company Limited

Statement of Cash Flows

For the year ended 31 December 2019

	Notes	Consolidated financial statements		Separate financial statements	
		2019	2018	2019	2018
		Baht	Baht	Baht	Baht
Cash flows from investing activities					
Interest received		188,764,263	71,547,112	63,610,756	74,205,965
Dividends received	14	829,274,071	696,088,663	2,010,909,606	696,088,663
Cash received (paid) for deposits at financial institutions used as collateral		248,352,155	(335,737,240)	-	-
Cash paid for short-term investment, net		(954,894,072)	(4,000,000)	-	-
Cash paid for long-term investments	15	(61,089,997)	(98,969,991)	(61,089,997)	(98,969,991)
Cash paid for investments in joint ventures	14	(66,695,600)	(90,360,800)	(66,695,600)	(90,360,800)
Cash paid for investments in associates	14	(320,982,750)	(878,060,250)	-	-
Cash paid for investments in subsidiaries	14	-	-	(797,982,950)	(878,060,250)
Cash received from payback of capital from a subsidiary	14	-	-	53,397,870	-
Cash paid for acquisition of subsidiaries, net	14	(78,684,055,911)	-	(133,807,204,957)	-
Cash received from long-term loans to related parties	34	7,342,581	-	55,102,581	47,760,000
Cash paid for long-term loans to related parties	34	(63,490,552)	(93,907,500)	-	(93,907,500)
Cash received from disposal of property, plant and equipment		10,824,606	-	2,323,853	-
Cash paid for purchase of property, plant and equipment		(3,040,185,661)	(2,937,437,953)	(2,462,137,637)	(2,364,286,743)
Cash paid for purchase of intangible assets		(107,274,363)	(2,526,872)	(8,501,429)	(11,785,948)
Interest paid capitalised as property, plant and equipment		(32,634,793)	(20,726,302)	(32,634,793)	(18,064,328)
Net cash payments in investing activities		(82,046,746,023)	(3,694,091,133)	(135,050,902,697)	(2,737,380,932)
Cash flows from financing activities					
Cash paid for financing fee		(895,284,994)	(15,215,519)	(891,527,417)	(11,714,093)
Cash paid for transaction costs from issue of shares		(94,921,901)	-	(94,921,901)	-
Cash received from short-term loans from related parties	34	35,000,000,000	-	35,000,000,000	-
Cash received from short-term loans from financial institutions	21	99,294,000,000	-	99,294,000,000	-
Cash received from long-term loans from financial institutions	23	-	2,865,845,888	-	2,000,000,000
Cash paid for repayments of short-term loans from related parties	34	(30,086,943,537)	-	(30,086,943,537)	-
Cash paid for repayments of short-term loans	21	(80,704,642,456)	-	(80,003,091,956)	-
Cash paid for repayments of long-term loans from financial institutions	23	(2,494,016,844)	(1,199,461,387)	-	-
Cash received from issue of debentures	24	35,000,000,000	-	35,000,000,000	-
Cash paid for repayments of debentures	24	(3,400,000,000)	-	-	-
Cash received from issue of shares	27	73,999,999,752	-	73,999,999,752	-
Cash paid from the change in non-controlling interests	14	(40,806,272,121)	-	-	-
Dividend paid		(2,629,690,813)	(1,872,876,000)	(1,947,791,040)	(1,872,876,000)
Interest paid		(4,270,248,039)	(494,823,278)	(2,176,676,563)	(127,190,203)
Net cash receipts from (payments in) financing activities		77,911,979,047	(716,530,296)	128,093,047,338	(11,780,296)

The notes to the consolidated and separate financial statements on pages 16 to 82 are on integral part of these financial statements.

Global Power Synergy Public Company Limited

Statement of Cash Flows

For the year ended 31 December 2019

	Consolidated		Separate	
	financial statements		financial statements	
	2019	2018	2019	2018
	Baht	Baht	Baht	Baht
Net increase (decrease) in cash and cash equivalents	13,218,689,051	1,437,492,119	(2,514,163,403)	966,186,923
Effect of exchange rate on				
cash and cash equivalents	(39,764,850)	(25,030,403)	(9,365,307)	(31,820,924)
Cash and cash equivalents at beginning of year	5,659,762,539	4,247,300,823	4,851,403,945	3,917,037,946
Cash and cash equivalents at ending of year	18,838,686,740	5,659,762,539	2,327,875,235	4,851,403,945
Non-cash transactions				
Changes in payable for assets under construction	192,552,634	(19,691,592)	(103,416,769)	440,978,407
Changes in dividend receivable from subsidiaries	-	-	11,979,985,020	-
Changes in dividend payable to non-controlling interests	584,183,963	-	-	-

The notes to the consolidated and separate financial statements on pages 16 to 82 are an integral part of these financial statements.

1 General information

Global Power Synergy Public Company Limited (the Company) is a public limited company which is the listed company on the Stock Exchange of Thailand. The Company is incorporated in Thailand and the address of its registered office is No.555/2, Energy Complex, Building B, 5th Floor, Vibhavadi Rangsit Road, Chatuchak, Bangkok 10900.

For reporting purposes, the Company and its subsidiaries are referred to as the Group.

The principal business of the Group is the production and distribution of electricity, steam and water for industrial use to the government and industrial customers.

These consolidated and separate financial statements were authorised for issue by the Board of Directors on 12 February 2020.

2 Accounting policies

The principal accounting policies applied in the preparation of these consolidated and separate financial statements are set out below:

2.1 Basis of preparation

The consolidated and separate financial statements have been prepared in accordance with Thai Financial Reporting Standards (TFRS) and the financial reporting requirements issued under the Securities and Exchange Act.

The consolidated and separate financial statements have been prepared under the historical cost convention except as disclosed in the below accounting policies.

The preparation of financial statements in conformity with Thai generally accepted accounting principles requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the Group's accounting policies. The areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the consolidated and separate financial statements are disclosed in Note 4.

An English version of the consolidated and separate financial statements has been prepared from the statutory financial statements that are in the 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.

2.2 New and amended financial reporting standards that are relevant and have significant impacts to the Group

2.2.1 New and amended financial reporting standards that are effective for accounting period beginning or after 1 January 2019.

Commencing from 1 January 2019, the Group adopted new and amended Thai Financial Reporting Standards effective for the period beginning on or after 1 January 2019 and relevant to the Group. The adoption of these standards does not have a significant impact to the Group.

2.2.2 New and amended financial reporting standards that are effective for accounting period beginning or after 1 January 2020. The Group has not yet adopted these standards.

a) Financial instruments

The new financial standards relate to financial instruments are:

TAS 32	Financial instruments: Presentation
TFRS 7	Financial Instruments: Disclosures
TFRS 9	Financial Instruments
TFRIC 16	Hedges of a Net Investment in a Foreign Operation
TFRIC 19	Extinguishing Financial Liabilities with Equity Instruments

These new standards address the classification, measurement, derecognition of financial assets and financial liabilities, impairment of financial assets, hedge accounting, and presentation and disclosure of financial instruments.

The Group's management is currently assessing the impact of adoption of these standards.

b) TFRS 16, Leases

Where the Group is a lessee, TFRS 16, Leases will result in almost all leases being recognised on the statement of financial position as the distinction between operating and finance leases is removed. A right-of-use asset and a lease liability will be recognised, with exception on short-term and low-value leases.

The Group's management is currently assessing the impact of adoption of this standard.

2.3 Group accounting - investments in subsidiaries, associates and joint ventures

2.3.1 Subsidiaries

Subsidiaries are all entities (including structured entities) over which the Group has control. The Group controls an entity when the Group is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. Subsidiaries are fully consolidated from the date on which control is transferred to the Group. They are deconsolidated from the date that control ceases.

The Group applies the acquisition method to account for business combinations except business combination under common control. The consideration transferred for the acquisition of a subsidiary is the fair value of the assets transferred, the liabilities incurred to the former owners of acquiree and the equity interests issued by the Group. The consideration transferred includes the fair value of any asset or liability resulting from a contingent consideration arrangement. Acquisition-related costs are expensed as incurred. Identifiable assets acquired and liabilities and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date. On an acquisition-by-acquisition basis, the Group recognises any non-controlling interest in the acquiree at the non-controlling interest's proportionate share of the acquiree's net assets.

If the business combination is achieved in stages, the acquisition date carrying value of the acquirer's previously held equity interest in the acquiree is re-measured to fair value at the acquisition date; any gains or losses arising from such re-measured are recognised in profit or loss.

Any contingent consideration to be transferred by the Group is recognised at fair value at the acquisition date. Subsequent changes to the fair value of the contingent consideration that is deemed to be an asset or liability is recognised in profit or loss. Contingent consideration that is classified as equity is not re-measured, and its subsequent settlement is accounted for within equity.

The excess of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of any previous equity interest in the acquiree over the fair value of the identifiable net assets acquired is recorded as goodwill. If the total of consideration transferred, non-controlling interest recognised and previously held interest measured is less than the fair value of the net assets of the subsidiary acquired in the case of a bargain purchase, the difference is recognised directly in profit or loss.

Intercompany transactions, balances and unrealised gains on transactions between group companies are eliminated. Unrealised losses are also eliminated unless the transaction provides evidence of an impairment of the transferred asset. Accounting policies of subsidiaries have been changed to ensure consistency with the policies adopted by the Group.

A list of the Group's subsidiaries is shown in Note 14.1.

2.3.2 Transactions with non-controlling interests

The Group treats transactions with non-controlling interests as transactions with equity owners of the Group. For purchases from non-controlling interests, the difference between any consideration paid and the relevant share acquired of the carrying value of net assets of the subsidiary is recorded in equity. Gains or losses on disposals to non-controlling interests are also recorded in equity.

2.3.3 Disposal of subsidiaries

When the Group ceases to have control it shall cease to consolidate its subsidiaries. Any retained interest in the entity is re-measured to its fair value, with the change in carrying amount recognised in profit or loss. The fair value is the initial carrying amount for the purposes of subsequently accounting for the retained interest as an associate, joint venture or financial asset. In addition, any amounts previously recognised in other comprehensive income in respect of that entity are accounted for as if the Group had directly disposed of the related assets or liabilities.

2.3.4 Business combination under common control

The Group accounts for business combination under common control by measuring acquired assets and liabilities of the acquiree in the proportion of interests under common control at the carrying values of the acquiree presented in the highest level of the consolidation prior to the business combination under common control at the acquisition date. The Group retrospectively adjusted the business combination under common control transactions as if the combination occurred from the beginning of period of which the financial statements in the previous period are comparatively presented in accordance with the guidance of business combination under common control as issued by the Federation of Accounting Professions.

Costs of business combination under common control are the aggregated amount of fair value of assets transferred, liabilities incurred and equity instruments issued by the acquirer at the date of which the exchange in control occurs. Other costs directly attribute to business combination under common control, such as professional fees of legal advisors and other advisors, registration fees, and costs relating to preparation of information for shareholders, are capitalised as an investment in the separate financial statements while immediately recognised as expenses in the consolidated financial statements in the period of which the business combination occurs.

The difference between costs of business combination under common control and the acquirer's interests in the carrying value of the acquiree is presented as "Surplus arising from business combination under common control" in equity and is derecognised when the investment is disposed by transferring to retained earnings.

2.3.5 Associates

Associates are all entities over which the Group has significant influence but not control or joint control. Investments in associates are accounted for using the equity method of accounting.

A list of the Group's principal associates is shown in Note 14.2.

2.3.6 Joint venture

A joint venture is a joint arrangement whereby the Group has rights to the net assets of the arrangement. Interests in joint ventures are accounted for using the equity method.

A list of the Group's principal joint ventures is shown in note 14.3.

2.3.7 Accounting under equity method

Under the equity method, the investment is initially recognised at cost, and the carrying amount is increased or decreased to recognise the investor's share of the profit or loss of the investee after the date of acquisition. The Group's investment in associates and joint ventures includes goodwill identified on acquisition.

If the ownership interest in an associate is reduced but significant influence is retained or the ownership interest in a joint venture is reduced but joint control is retained, only a proportionate share of the amounts previously recognised in other comprehensive income is reclassified to profit or loss where appropriate. Profit or loss from reduce of the ownership interest in an associate or a joint venture is recognise in profit or loss.

The Group's share of its associates' and joint ventures' post-acquisition profits or losses is recognised in the profit or loss, and its share of post-acquisition movements in other comprehensive income is recognised in other comprehensive income. The cumulative post-acquisition movements are adjusted against the carrying amount of the investment. When the Group's share of losses in associates and joint ventures equals or exceeds its interest in the associate and joint ventures, together with any long-term interests that, in substance, form part of the entity's net investment in the associate, the Group does not recognise further losses, unless it has incurred obligations or made payments on behalf of the associate and joint ventures.

The Group determines at each reporting date whether there is any objective evidence that the investments in the associates and joint ventures are impaired. If this is the case, the Group calculates the amount of impairment as the difference between the recoverable amount of the investments and its carrying value and recognises the amount adjacent to share of profit (loss) of associates and joint ventures in profit or loss.

Unrealised gains on transactions between the Group and its associates and joint ventures are eliminated to the extent of the Group's interest in the associates and joint ventures. Unrealised losses are also eliminated unless the transaction provides evidence of an impairment of the asset transferred. Accounting policies of associates and joint ventures have been changed where necessary to ensure consistency with the policies adopted by the Group.

2.3.8 Separate financial statements

In the separate financial statements, investments in subsidiaries, associates and joint ventures are accounted for at cost less impairment. Cost is adjusted to reflect changes in consideration arising from contingent consideration amendments. Cost also includes direct attributable costs of investment.

A test for impairment on investments in subsidiaries, associates and joint ventures is carried out when there is a factor indicating that investments might be impaired. If the carrying value of the investment is higher than its recoverable amount, impairment loss is charged to the profit or loss.

2.4 Foreign currency translation

a) Functional and presentation currency

Items included in the financial statements of each of the Group's entities are measured using the currency of the primary economic environment in which the entity operates (the functional currency). The financial statements are presented in Thai Baht, which is the functional currency and the presentation currency of the Company.

b) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions or valuation where items are re-measured. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the profit or loss.

When a gain or loss on a non-monetary item is recognised in other comprehensive income, any exchange component of that gain or loss is recognised in other comprehensive income. Conversely, when a gain or loss on a non-monetary item is recognised in profit and loss, any exchange component of that gain or loss is recognised in profit and loss.

c) Group companies

The results and financial position of all of the Group's entities (none of which has the currency of a hyper-inflationary economy) that have a functional currency different from the presentation currency are translated into the presentation currency as follows:

- Assets and liabilities for each statement of financial position presented are translated at the closing rate at the date of that statement of financial position;
- Income and expenses for each statement of income and statement of comprehensive income are translated at average exchange rates; and
- All resulting exchange differences are recognised in other comprehensive income.

2.5 Cash and cash equivalents

In the statements of cash flows, cash and cash equivalents includes cash on hand, deposits held at call, short-term highly liquid investments with maturities of three months or less from acquisition date.

2.6 Trade receivables

Trade receivables are carried at the original invoice amount and subsequently measured at the remaining amount less any allowance for doubtful receivables based on a review of all outstanding amounts at the year end. The amount of the allowance is the difference between the carrying amount of the receivable and the amount expected to be collectible. Bad debts are written-off during the year in which they are identified and recognised in profit or loss within administrative expenses.

2.7 Fuel, spare parts and supplies

Fuel, spare parts and supplies are stated at the lower of cost or net realisable value.

Cost of fuel, spare parts and supplies are determined by the moving average basis method. Spare parts and supplies are classified as spare parts and supplies used for specific equipment in power plants and spare parts and supplies used for other general equipment.

The cost of purchase comprises both the purchase price and costs directly attributable to the acquisition of the fuel, spare parts and supplies, such as import duties and transportation charges, less all attributable discounts. The allowance for obsolescence of spare parts and supplies is made on an aging analysis.

2.8 Other long-term investments

Investments in non-marketable equity securities other than investments in subsidiaries, associates and joint ventures are classified as general investments and presented under other long-term investments. The classification is dependent on the purpose for which the investments were acquired. Management determines the appropriate classification of its investments at the time of the purchase and re-evaluates such designation on a regular basis.

General investments are initially recognised at cost, which is equal to the fair value of consideration paid plus transaction cost and are carried at cost less allowance for impairment.

A test for impairment is carried out 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 loss is charged to profit or loss.

On disposal of an investment, the difference between the net disposal proceeds and the carrying amount is charged or credited to the profit or loss. In the event that the investments are partially disposed, the book value of disposed investments are identified by weighted average method of book value of the total amount.

2.9 Property, plant and equipment

Property, plant and equipment are initially stated at historical cost. All plant and equipment are subsequently stated at historical cost less accumulated depreciation and allowance for impairment (if any). Initial cost includes expenditure that is directly attributable to the acquisition of the items. These can include the initial estimate of costs of dismantling and removing the item, and restoring the site on which it is located, the obligation for which the Group incurs either when the item is acquired or as a consequence of having used the item during a particular period.

Subsequent costs are included in the asset's carrying amount or recognised as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the Group and the cost of the item can be measured reliably. The carrying amount of the replaced part is derecognised. All other repairs and maintenance are charged to profit or loss during the financial period in which they are incurred.

Depreciation is calculated using the straight - line method to allocate their cost to their residual values over their estimated useful lives, except land which is considered to have an indefinite life, as follows:

	Years
Buildings and leasehold improvements	5 to 40
Power plant, machinery and equipment	3 to 40
Furniture, fixture and office equipment	3 to 28
Vehicles	5

Depreciation of power plant of Houay Ho Power Company Limited's power plant is calculated using the unit of production method.

The asset's residual values and useful lives are reviewed, and adjusted if appropriate, at the end of each reporting period.

The asset's carrying amount is written-down immediately to its recoverable amount if the asset's carrying amount is greater than its estimated recoverable amount.

Gains or losses on disposals of property, plant and equipment are determined by comparing the proceeds with the carrying amount. The net gains or losses are recognised in profit or loss.

2.10 Intangible assets

Intangible assets with limited life are initially recognised at historical cost and subsequently stated at historical cost less accumulated amortisation and allowance for impairment losses (if any). The amortisation is calculated using the straight-line method over their estimated useful lives as follows:

	Years
Right to use grid system	22 - 24
Right to operate power plant	20
Right to use transmission line	25
Deferred land leasehold right	16 - 30
Right to use pipe rack	8 - 16
Right of way	20 - 31
Right to use gas pipeline	13 - 28
Right to use dedicated berth	14
Computer software	3 - 10
Right to power purchase agreements	5 - 31

2.11 Goodwill

Goodwill represents the excess of the consideration transferred over the fair value of the Group's share of the net identifiable assets, liabilities and contingent liabilities of the acquired subsidiary undertaking or associate or joint venture at the date of acquisition.

Goodwill on acquisitions of subsidiaries is separately reported in the consolidated statement of financial position. Goodwill on acquisition of joint ventures or associates is included in investments in joint ventures or associates and is tested for impairment as part of the overall balance.

Goodwill is tested annually for impairment and carried at cost less accumulated impairment losses. Impairment losses on goodwill are not reversed. Gains and losses on the disposal of an entity include the carrying amount of goodwill relating to the entity sold.

Goodwill is allocated to cash generating units for the purpose of impairment testing. The allocation is made to those cash generating units or groups of cash generating units that are expected to benefit from the business combination in which the goodwill arose, identified according to operating segment.

2.12 Impairment of assets

Assets that have an indefinite useful life, for example goodwill, are not subject to amortisation and are tested annually for impairment. Assets that are subject to amortisation are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. An impairment loss is recognised for the amount by which the carrying amount of the assets exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs to sell and value in use. For the purposes of assessing impairment, assets are grouped at the lowest level for which there are separately identifiable cash flows. Non-financial assets other than goodwill that suffered an impairment are reviewed for possible reversal of the impairment at each reporting date.

2.13 Leases

The determination of whether an arrangement is or contains a lease shall be based on the substance of the arrangement, and not merely the legal form. It requires an assessment of whether (a) the fulfilment of the arrangement is dependent on the use of specific assets and (b) the arrangement conveys a right to use such assets.

If the arrangement is a lease or contains a lease, payments and other consideration required by the arrangement shall be separated into those for the lease and those for other elements (e.g. for services and the cost of inputs) on the basis of their relative fair values. The lease element of the arrangement shall be classified as a finance lease or an operating lease.

Leases where the Group is the lessee

Leases in which a significant portion of the risks and rewards of ownership are retained by the lessor are classified as operating leases. Payments made under operating leases (net of any incentives received from the lessor) are charged to profit or loss on a straight-line basis over the period of the lease.

Leases of assets where the lessee has substantially all the risks and rewards of ownership are classified as finance leases. Finance leases are capitalised at the inception of the lease at the lower of the fair value of the leased assets and the present value of the minimum lease payments. Each lease payment is allocated between the liability and finance charges so as to achieve a constant rate on the liabilities balance outstanding. The corresponding rental obligations, net of finance charges, are included in other long-term payables. The interest element of the finance cost is charged to profit or loss over the lease period so as to achieve a constant periodic rate of interest on the remaining balance of the liability for each period. The asset acquired under finance leases is depreciated over the shorter period of the useful life of the asset and the lease term.

Leases where the Group is the lessor

Lease in which a significant portion of the risk and rewards of ownership are retained by the lessee are classified as finance lease. When assets are leased out under a finance lease, the present value of the lease payments is recognised as a receivable. The difference between the gross receivable and the present value of the receivable is recognised as unearned finance income. Lease income (interest income from finance lease receivable) is recognised over the term of the lease using the net investment method, which reflects a constant periodic rate of return.

Lease in which a significant portion of the risk and rewards of ownership are retained by the lessor are classified as operating lease. Assets leased out under operating leases are included in property, plant and equipment in the statement of financial position. They are depreciated over their expected useful lives on a basis consistent with other similar property, plant and equipment owned by the Group.

2.14 Service concession arrangements

The Group recognises a financial asset arising from a service concession arrangement when it has an unconditional right to receive cash or another financial asset from or at the direction of the grantor for the construction or upgrade services provided. Such financial assets are measured at fair value upon initial recognition. Subsequent to initial recognition, the financial assets are measured at amortised cost.

2.15 Borrowings

Borrowings are recognised initially at the fair value, net of transaction costs incurred. Borrowings are subsequently stated at amortised cost; any difference between proceeds (net of transaction costs) and the redemption value is recognized in profit and loss over the period of the borrowings.

Fees paid on the establishment of loan facilities are recognised as transaction costs of the loan to the extent that it is probable that some or all of the facility will be drawn down. In this case, the fee is deferred until the draw-down occurs. To the extent that there is no evidence that it is probable that some or all of the facility will be drawn down, the fee is capitalised as a pre-payment for liquidity services and amortised over the period of the facility to which it relates.

Borrowings are classified as current liabilities unless the Group has an unconditional right to defer settlement of the liability for at least 12 months after the end of reporting date.

General and specific borrowing costs directly attributable to the acquisition or construction of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use, are added to the cost of those assets, until such time as the assets are substantially ready for their intended use. Investment income earned on the temporary investment of specific borrowings pending their expenditure on qualifying assets is deducted from the borrowing costs eligible for capitalisation.

All other borrowing costs are recognised as expense in the period in which they are incurred.

2.16 Current and deferred income taxes

The tax expense for the period comprises current and deferred tax. Tax is recognised in profit or loss, except to the extent that it relates to items recognised in other comprehensive income or directly in equity. In this case the tax is also recognised in other comprehensive income or directly in equity, respectively.

The current income tax charge is calculated on the basis of the tax laws enacted or substantively enacted at the end of reporting period in the countries where the Company and its subsidiaries operate and generate taxable income. Management periodically evaluates positions taken in tax returns with respect to situations in which applicable tax regulation is subject to interpretation. It establishes provisions where appropriate on the basis of amounts expected to be paid to the tax authorities.

Deferred income tax is recognised, using the liability method, on temporary differences arising from differences between the tax base of assets and liabilities and their carrying amounts in the financial statements.

However, the deferred income tax is not accounted for if it arises from initial recognition of an asset or liability in a transaction other than a business combination that at the time of the transaction affects neither accounting nor taxable profit or loss. Deferred income tax is determined using tax rates (and laws) that have been enacted or substantively enacted by the end of the reporting period and are expected to apply when the related deferred income tax asset is realised or the deferred income tax liability is settled.

Deferred income tax assets are recognised only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised. Deferred income tax is provided on temporary differences arising from investments in subsidiaries, associates and joint arrangements, except where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not reverse in the foreseeable future.

Deferred income tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets against current tax liabilities and when the deferred income tax assets and liabilities relate to income taxes levied by the same taxation authority on either the same taxable entity or different taxable entities where there is an intention to settle the balances on a net basis.

2.17 Employee benefits

The Group operates various post-employment benefits schemes which comprised defined benefit, defined contribution plans and other long-term benefits

2.17.1 Defined contribution

The Group provides provident fund, which is contributed by the employees and the Group, and managed by an external fund manager in accordance with the Provident Fund Act. B.E. 2530. The Group has no legal or constructive obligations to pay further contributions once the contributions have been paid even if the fund does not hold sufficient assets to pay all employees the benefits relating to employee service in the current and prior periods. The contributions are recognised as employee benefit expense when they are due.

2.17.2 Retirement benefits

The Group provides for post-employment benefits, payable to employees under the labour laws applicable in Thailand and other countries in which the Group has its operations, or when the term of service is terminated according to the agreement between the Group and employees. Typically defined benefit plans define an amount of retirement benefit that an employee will receive on retirement, usually depends on many factors such as age, years of service and compensation.

The liability in respect of employee benefits is the present value of the defined benefit obligation at the end of the reporting date which is calculated by an independent actuary using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting estimated future cash flows using yields on government bonds that matches the terms and currency of the expected cash outflows.

Remeasurement gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to equity in other comprehensive income in the period in which they arise.

Past-service costs are recognised immediately in profit or loss.

2.17.3 Other long-term benefits

The Group gives gold rewards to employees when they have worked for the Group for 10, 15 and 20 years.

These obligations are measured similar to defined benefit plans except remeasurement gains and losses that are charged to profit or loss.

2.18 Provisions

2.18.1 General provisions

Provisions are recognised when the Group has a present legal or constructive obligation as a result of past events; it is probable that an outflow of resources will be required to settle the obligation; and the amount has been reliably estimated.

2.18.2 Provisions for decommissioning cost

The Group recognises provision for decommissioning costs, which are provided at the onset of completion of the project, for the estimate of the eventual costs that relate to the removal of the assets. The recognised provision for decommissioning costs are based on future removal cost estimates and incorporate many assumptions such as abandonment times and future inflation rate and discounted to present value at the discount rate estimated by the management. Those costs are included as part of the assets.

2.19 Revenue recognition

Revenue are recorded net of value added tax. They are recognised in accordance with the provision of goods or services, provided that collectability of the consideration is probable.

Multiple element arrangements involving delivery or provision of multiple products or services are separated into distinct performance obligations. Total transaction price of the bundled contract is allocated to each performance obligation based on their relative standalone selling prices or estimated standalone selling prices. Each performance obligation is recognised as revenue on fulfilment of the obligation to the customer as details below.

Revenue under the Power Purchase Agreements (PPA)

(a) Revenue under the PPA which are not classified as lease

- The Group recognises Capacity Payments or Availability Payments which are the revenue for maintaining availabilities of power plants as agreed with EGAT and industrial customers in accordance with terms of PPA. The Group recognises this revenue in profit or loss when rendering services to customer according to the agreements. If the Group receives consideration above the services rendered, the Group recognises the excess consideration as a contract liability. On the other hand, if the Group receives consideration less than the services rendered, the Group recognises the consideration as a contract asset.
- Energy Payments are recognised at a point in time when the controls over the products are transferred to the customers at destinations as stated in the agreements. The revenue from Energy Payments are recognised based on transaction price net of output tax, rebates and discounts.

(b) Revenue under the Power Purchase Agreements which are classified as lease

- Finance lease income under the power purchase agreements is recognized on an effective interest method over the period of the agreements. Rental income from operating lease under the power purchase agreements is recognised on a straight-line basis over the period of the agreements.
- Service income under finance and operating lease agreements related to power purchase agreements, which comprises revenue for maintaining availabilities of power plants, other service income and Energy Payments received from financial lease receivables and operating lease receivables with respect to the leased assets, is recognised when the services are rendered. If the Group receives consideration above the services rendered, the Group recognises the excess consideration as a contract liability. On the other hand, if the Group receives consideration less than the services rendered, the Group recognises the consideration as a contract asset.
- Contingent rents are recognised in profit or loss in the period in which they are incurred. Contingent rent is that portion of lease payments that is not fixed in amount but varies based on a future factor, such as the amount of use or production.

Revenue under the steam and water purchase agreements

Revenue under the steam and water purchase agreements are recognised at a point in time when the controls over the products are transferred to customers at destinations as stated in the agreements. The revenue is recognised based on transaction price net of output tax, rebates and discounts.

Dividend income

Dividend income is recognised when the right to receive payment is established.

Interest income

Interest income are recognised by the effective interest rate method.

2.20 Dividend distribution

Dividend distribution to the Group's shareholders is recognised as a liability in the financial statements in the period in which the dividends are approved by the Company's shareholders, and interim dividend are approved by the Board of Directors.

2.21 Accounting for derivative financial instruments

The Group is party to derivative financial instruments, which mainly comprise interest rate swap contracts and cross currency swap contracts.

Interest rate swap contracts

Interest rate swap contracts protect the Group from movements in interest rates. Any differential to be paid or received on the interest rate swap contracts is recognised as a component of finance costs as incurred. Gains and losses from early cancellation of interest rate swap contracts is recognised in profit or loss.

Cross Currency Swap Contract

Cross currency swaps contracts protect the exposure from movements in exchange rates and interest rates in the future. Financial assets or financial liabilities in foreign currencies, which under swap contracts, will be translated into functional currency, at contracted rates and revalued by using exchange rates prevailing at the reporting date. The differences on exchange rates are recognised in profit or loss and the differences on the interest rate are recognised as a component of finance costs.

Details of financial instruments to which the Group is a party is disclosed in Note 35.

2.22 Segment reporting

Operating segments are reported in a manner consistent with the internal reporting provided to the chief operating decision-maker. The chief operating decision-maker, who is responsible for allocating resources and assessing performance of the operating segments, has been identified as the Steering Committee that makes strategic decisions.

3 Change in accounting policies and reclassification

Change in accounting policies

The Group has adopted the new Thai Financial Reporting Standard (TFRS) 15, "Revenue from contracts with customers" from 1 January 2019. The adoption of TFRS 15 mainly affects the Group's accounting treatment on revenue recognition of capacity payments and availability payments in relation to the availabilities of the power plants, as agreed with the Electricity Generating Authority of Thailand (EGAT) and industrial customers in accordance with terms of the Power Purchase Agreements. The Group recognises this revenue in profit or loss when rendering services to customers according to the agreements. If the Group receives consideration above the service rendered, the Group recognises the excess consideration as a contract liability. On the other hand, if the Group receives consideration less than the service rendered, the Group recognises the consideration as a contract asset.

However, the adoption of the new revenue standard does not have significant impact on the Group's financial statements.

Reclassification

During the year ended 31 December 2019, the Group has reclassified comparative figures to conform to the current period presentation of the Group.

Impacts on the statement of financial position as at 31 December 2018.

Consolidated statement of financial position	As previously reported	Reclassification	As reported in these financial statements
Cash and cash equivalents	4,911,405,612	748,356,927	5,659,762,539
Deposits at financial institutions used as collateral	1,087,994,829	(748,356,927)	339,637,902
Trade receivables	4,091,919,027	216,162,478	4,308,081,505
Other receivables	579,021,123	(305,995,834)	273,025,289
Dividend receivables	-	89,833,356	89,833,356
Intangible assets, net	498,528,297	1,782,468,900	2,280,997,197
Right of use of natural gas distribution pipeline, net	536,745,733	(536,745,733)	-
Deferred right to use asset, net	1,001,421,882	(1,001,421,882)	-
Other non-current assets	924,164,092	(244,301,285)	679,862,807

Separate statement of financial position	As previously reported	Reclassification	As reported in these financial statements
Trade receivables	2,713,742,384	216,162,478	2,929,904,862
Other receivables	452,006,405	(305,995,821)	146,010,584
Dividend receivables	-	89,833,343	89,833,343
Intangible assets, net	80,643,683	164,346,094	244,989,777
Other non-current assets	791,130,327	(164,346,094)	626,784,233

Impacts on the statement of income for the year ended 31 December 2018.

Consolidated statement of income	As previously reported	Reclassification	As reported in these financial statements
Revenue from sales and services	24,234,554,298	102,737,777	24,337,292,075
Revenue from sale of Nitrogen	102,737,777	(102,737,777)	-
Cost of sales and services	20,201,378,750	97,184,773	20,298,563,523
Cost of sale of Nitrogen	97,184,773	(97,184,773)	-
Administrative expenses	919,885,174	16,721,775	936,606,949
Selling and distribution expenses	16,721,775	(16,721,775)	-

Separate statement of income	As previously reported	Reclassification	As reported in these financial statements
Revenue from sales and services	17,312,051,558	102,737,777	17,414,789,335
Revenue from sale of Nitrogen	102,737,777	(102,737,777)	-
Cost of sales and services	14,970,425,315	97,184,773	15,067,610,088
Cost of sale of Nitrogen	97,184,773	(97,184,773)	-
Administrative expenses	839,986,574	16,721,775	856,708,349
Selling and distribution expenses	16,721,775	(16,721,775)	-

4 Critical accounting estimates and judgements

Estimates, assumption and judgements are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

During the year 2019, the Group makes estimates and assumptions concerning the future. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are outlined below.

4.1 Fair value estimation of intangible assets arising from an acquisition of investments in subsidiaries

The Group estimates fair value of intangible assets arising from an acquisition of investments in subsidiaries by basing on the valuation technique (the discounted cash flows) that involves many assumptions for example the electricity tariffs, assumed capacity of the power plants, growth rate, operating expenditures, etc. The assumptions used also involved significant management judgement to assess the future cash flows and discounted rate applied for the future cash flows (Note 14.1).

4.2 Impairment of goodwill

The Group annually tests for impairment of goodwill in accordance with the accounting policy stated in Note 2.11. The recoverable amounts of cash-generating units have been determined based on value-in-use calculations. These calculations use cash flow projections based on financial budgets covering the remaining period of the long-term power purchase agreements of the Group and assumed electricity tariffs, capacity of the power plants stated in the agreements. Discount rates used are based on pre-tax weighted average cost of capital (see in Note 18). If the discount rate used in the calculation increases by 1% per annum, no impairment of goodwill is recognised in the consolidated financial statements for the year ended 31 December 2019.

4.3 Impairment of property, plant and equipment

The Group tests impairment of property, plant and equipment whenever events or changes in circumstances indicate that the carrying amount of asset is greater than its estimated recoverable amount. Recoverable amount is the higher of fair value less costs to sell and its value in use. The calculation of fair value less costs to sell involves significant judgements and assumptions of the management in respect to characteristics and conditions of individual asset, expected disposal period, including the list of total assets expected to be disposed. The value-in-use calculates from a cash flow projection covering the remaining periods of Power Purchase Agreements, assumed electricity tariffs, capacity and discounted rate (Note 16).

5 Capital risk management

The Group's objectives when managing capital are to safeguard the Group's ability to continue as a going concern in order to provide returns for shareholders and benefits for other stakeholders and to maintain an optimal capital structure to reduce the cost of capital.

In order to maintain or adjust the capital structure, the Group has alternative practices include returning capital to shareholders, issuing new shares or selling assets to reduce debt.

6 Segment information - consolidated financial statements

The Group has three segment reports which are comprised of Independent Power Producer, Small Power Producer and others as follows:

Consolidated financial statements				
For the period year 31 December 2019				
	Independent Power Producer Baht'000	Small Power Producer Baht'000	Others Baht'000	Total Baht'000
Revenue from sales and services				
- Revenue from external	14,993,478	50,215,066	580,564	65,789,108
Revenue from finance lease	773,389	-	-	773,389
Cost of sales and services	(11,666,727)	(43,048,159)	(348,499)	(55,063,385)
Segment results	4,100,140	7,166,907	232,065	11,499,112
Dividend income	30,294	155,111	-	185,405
Other income	75,474	636,407	20,991	732,872
Currency exchange gain/ (loss)	333,688	(16,309)	19	317,398
Administrative expenses	(445,018)	(1,684,414)	(54,255)	(2,183,687)
Finance costs	(1,616,983)	(3,477,691)	(45,205)	(5,139,879)
Share of profit from investments in associates and joint ventures, net	262,486	229,985	344,615	837,086
Profit before income tax	2,740,081	3,009,996	498,230	6,248,307
Income tax expense	203,039	(425,401)	(25,129)	(247,491)
Profit for the year	2,943,120	2,584,595	473,101	6,000,816
Attributable to:				
Owners of the parent	2,713,692	1,414,644	472,460	4,060,796
Non-controlling interests	769,428	1,169,951	641	1,940,020
Timing of revenue recognition				
Point in time	9,850,656	46,997,275	580,564	57,428,495
Over time	5,142,822	3,217,791	-	8,360,613
Total revenue from sales and services	14,993,478	50,215,066	580,564	65,789,108

Consolidated financial statements				
For the period year 31 December 2018				
	Independent Power Producer Baht'000	Small Power Producer Baht'000	Others Baht'000	Total Baht'000
Revenue from sales and services				
- Revenue from external	3,247,254	20,484,278	605,760	24,337,292
Revenue from finance lease	542,850	-	-	542,850
Cost of sales and services	(3,465,448)	(16,472,646)	(360,470)	(20,298,564)
Segment results	324,656	4,011,632	245,290	4,581,578
Dividend income	25,323	109,682	-	135,005
Other income	48,265	234,341	3,001	285,607
Currency exchange gain/ (loss)	(3,396)	(10,781)	(491)	(14,668)
Administrative expenses	(157,997)	(711,207)	(67,402)	(936,606)
Finance costs	(25,187)	(442,294)	(46,239)	(513,720)
Share of profit from investments in associates and joint ventures, net	(24,752)	310,157	309,404	594,809
Profit before income tax	186,912	3,501,530	443,563	4,132,005
Income tax expense	(34,575)	(211,219)	3,002	(242,792)
Profit for the year	152,337	3,290,311	446,565	3,889,213
Attributable to:				
Owners of the parent	152,337	2,761,190	445,660	3,359,187
Non-controlling interests	-	529,121	905	530,026

Revenue reported in segment information for the year ended 31 December 2018 was disaggregated under Thai Accounting Standard No. 18, Revenue. Consequently, disaggregated revenue for the current and comparative year cannot be comparable.

Geographical information

The Group is managed and operates principally in Thailand. There is no material revenues derived from, or assets located in, foreign countries.

Major customers

For the year ended 31 December 2019, the Group earns revenue from a single customer from both Small Power Producer and Independent Power Producer businesses totalling approximately Baht 29,320 million of the Group's total revenue (2018: Baht 8,788 million).

7 Cash and cash equivalents

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Deposits at financial institutions				
- maturities within three months	14,118,687	5,609,689	1,327,875	4,801,331
Promissory notes - maturities within three months	4,720,000	50,073	1,000,000	50,072
Total cash and cash equivalents	18,838,687	5,659,762	2,327,875	4,851,403

As at 31 December 2019, the interest rates on deposits at financial institutions with maturities within three months were 0.01% to 1.37% per annum (as at 31 December 2018: 0.25% to 1.35% per annum). The interest rates on short-term investments in promissory notes with maturities within three months were 1.35% to 1.60% per annum (as at 31 December 2018: 1.50% per annum).

As at 31 December 2019, the Group's deposits at financial institutions of Baht 3,191 million were pledged as collateral to secure credit facilities obtained from financial institutions. However, the pledged deposits at financial institutions can be withdrawn in accordance with the objective and conditions stipulated in the loan agreements for use as working capital required in the normal course of their business (Note 23).

8 Deposits at financial institutions used as collateral

As at 31 December 2019, deposits at financial institutions used as short-term collateral represented deposits in savings accounts of its subsidiaries which have been pledged as collateral for its long-term loans from financial institutions for the purpose of repayment of principal in the next period as described in Note 23.

As at 31 December 2019, deposits at a financial institution used as long-term collateral represented deposit in savings account which is pledged as collateral with a financial institution for the Group's forward contracts with a financial institution.

9 Short-term investments

As at 31 December 2019, short-term investments represented fixed deposit with maturities over three months but not later than one year. The interest rates were 1.55% per annum (as at 31 December 2018: 1.50% per annum).

10 Trade receivables

Trade receivables are comprised of:

As at 31 December	Note	Consolidated financial statements		Separate financial statements	
		2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Trade receivables - related parties	34.2	2,377,376	2,594,679	1,250,356	2,009,145
Trade receivables - third parties		7,706,635	1,713,402	1,227,431	920,759
Total trade receivables		10,084,011	4,308,081	2,477,787	2,929,904

Trade receivables as at 31 December can be analysed by aging as follows:

	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Trade receivables - related parties				
Not overdue	2,210,135	2,483,457	1,083,115	1,897,923
Overdue less than 3 months	39,082	85,929	39,082	85,929
Overdue 3 - 6 months	20,420	19,697	20,420	19,697
Overdue 6 - 12 months	67,250	5,596	67,250	5,596
Overdue over 12 months	40,489	-	40,489	-
Total trade receivables - related parties	2,377,376	2,594,679	1,250,356	2,009,145
	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Trade receivables - Third parties				
Not overdue	7,615,940	1,710,518	1,174,394	917,875
Overdue less than 3 months	51,754	2,565	51,124	2,565
Overdue 3 - 6 months	714	319	714	319
Overdue 6 - 12 months	360	-	360	-
Overdue over 12 months	37,867 ⁽¹⁾	-	839	-
Total trade receivables - third parties	7,706,635	1,713,402	1,227,431	920,759
Total trade receivables	10,084,011	4,308,081	2,477,787	2,929,904

⁽¹⁾ The outstanding of trade receivables, which are overdue more than 12 months, amounting to Baht 37 million is due from EGAT, which is resulted from the dispute on expiration date of Power Purchase Agreement.

11 Finance lease receivable, net

	Consolidated financial statements			
	Minimum payment		Present value of minimum payment	
As at 31 December	2019 Million Baht	2018 Million Baht	2019 Million Baht	2018 Million Baht
Finance lease receivable				
- Less than one year	1,936	1,182	1,106	701
- Later than one year and not later than five years	7,969	4,413	5,898	3,199
- Later than five years	1,793	1,561	1,681	1,454
	11,698	7,156	8,685	5,354
<u>Less</u> Deferred financial revenue	(3,013)	(1,802)		
Present value of minimum payment	8,685	5,354		
Finance lease receivable can be analysed as follows:				
- Current portion of finance lease receivable			1,106	701
- Non-current portion of finance lease receivable			7,579	4,653
			8,685	5,354

As at 31 December	Separate financial statements			
	Minimum payment		Present value of minimum payment	
	2019 Million Baht	2018 Million Baht	2019 Million Baht	2018 Million Baht
Finance lease receivable				
- Less than one year	1,069	1,182	652	701
- Later than one year and not later than five years	4,493	4,413	3,602	3,199
- Later than five years	528	1,561	541	1,454
	6,090	7,156	4,795	5,354
<u>Less</u> Deferred financial revenue	(1,295)	(1,802)		
Present value of minimum payment	4,795	5,354		
Finance lease receivable can be analysed as follows:				
- Current portion of finance lease receivable			652	701
- Non-current portion of finance lease receivable			4,143	4,653
			4,795	5,354

As at 31 December 2019 and 2018, the Group and the Company had no overdue balance of finance lease receivable.

12 Other receivables

As at 31 December	Note	Consolidated financial statements		Separate financial statements	
		2019	2018	2019	2018
		Baht'000	Baht'000	Baht'000	Baht'000
Other receivables - related parties	34.2	105,198	107,911	98,939	102,524
Other receivables - third parties		105,400	655	4,788	411
Prepaid expenses		298,172	144,955	78,844	42,733
Interest receivables from short-term investment		21,029	153	10,141	125
Others		52,742	19,351	254	218
Total other receivables		582,541	273,025	192,966	146,011

13 Fuel, spare parts and supplies, net

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Fuel	1,427,386	19,344	18,122	19,190
Spare parts and supplies	5,562,125	607,521	506,783	479,941
	6,989,511	626,865	524,905	499,131
<u>Less</u> Allowance for obsolescence of spare parts and supplies	(266,010)	-	-	-
Fuel, spare parts and supplies, net	6,723,501	626,865	524,905	499,131

14 Investments in subsidiaries, associates and joint ventures

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Investments in subsidiaries (Note 14.1)	-	-	143,925,141	9,378,179
Investments in associates (Note 14.2)	7,966,742	7,065,122	923,750	923,750
Investments in joint ventures (Note 14.3)	2,658,425	2,700,255	2,679,729	2,613,034
Total investments in subsidiaries, associates and joint ventures	10,625,167	9,765,377	147,528,620	12,914,963

14.1 Investments in subsidiaries

Movements of investments in subsidiaries for the year ended 31 December 2019 are as follows:

	Separate financial statements Baht'000
Opening net book value	9,378,179
Additional investments ^{(a), (b), (c)}	134,605,189
Cash receipt from payback of capital ^(d)	(58,227)
Closing net book value	143,925,141

Significant changes in investments in subsidiaries for the year ended 31 December 2019 are as follows:

(a) Glow Energy Public Company Limited and ENGIE Holding (Thailand) Company Limited

On 20 June 2018, the Company entered into a Share Purchase Agreement with ENGIE Global Developments B.V. (ENGIE) to acquire shares totalling 1,010,976,033 both directly and indirectly in Glow Energy Public Company Limited (GLOW), a company that generates and supplies electricity, steam and water. The share acquisition represents 69.11% of total registered and paid-up capital at the purchase price of Baht 91.99 per share, totalling Baht 93,001 million. The acquisition of GLOW's shares was achieved by acquiring 218,696,260 direct shares and 792,279,773 indirect shares from acquiring all the shares of ENGIE Holding (Thailand) Company Limited. Sources of funding are a financial institution and related parties. The Company made a full payment to ENGIE and changed a shareholder's name on 14 March 2019.

Detail of fair value of the net assets acquired recognised at the acquisition date is as follow:

	Consolidated financial statements Baht'000
Cash and cash equivalents	14,316,877
Deposits at financial institutions used as collateral - current assets	170,841
Trade receivables	6,133,037
Finance lease receivable	4,106,980
Other receivables	285,905
Fuel, spare parts and supplies, net	5,500,956
Deposit at financial institutions used as collateral - non-current assets	200,000
Property plant and equipment, net	75,335,586
Intangible assets, net	45,419,715
Deferred tax assets	3,359,889
Other non-current assets	85,630
Trade payables and other payables	(4,720,556)
Deferred tax liabilities	(10,706,647)
Others current liabilities	(1,457,022)
Short-term loans	(701,550)
Long-term loan from financial institutions	(19,796,686)
Debentures, net	(16,301,856)
Other non-current liabilities	(12,558,931)
Other assets less other liabilities	330,852
Fair value of identifiable net assets	89,003,020
<u>Less</u> Non-controlling interests	(32,091,923)
Total fair value of identifiable net assets acquired	56,911,097
Goodwill	36,089,836
Purchase consideration - cash	93,000,933

Right to power purchase agreements which presented as intangible assets are amortised using the straight-line method based on their estimated useful lives between 5 years to 31 years. Goodwill is not amortised but is tested annually for impairment.

On 22 September 2019 and 2 December 2019, the Company acquired securities of GLOW from tender offer and on 13 August 2019, the Extraordinary General Meeting of Shareholders of GLOW passed a resolution to approve the delisting of Securities, and on the same date, GLOW submitted the Application for delisting of Shares (F10-7) to the Board of the Stock Exchange of Thailand. The Board of the Stock Exchange of Thailand ordered to delist the ordinary shares of GLOW from being listed securities from 13 December 2019 onwards.

During the year 2019, the Company acquired securities by tender offer from non-controlling interests of Baht 40,806 million. As a result, the Company has total investment in GLOW of Baht 133,807 million. This increased direct and indirect shareholding interests from 69.11% to 99.83% of registered and paid-up capital.

The effect of change in the ownership interests of GLOW on the equity attributable to owners of the Company during the year ended 31 December 2019 is summarised as follows:

	Consolidated financial statements Baht'000
Carrying amount of non-controlling interests acquired	25,814,282
Consideration paid to non-controlling interests	(40,806,272)
Deficit from the change in the ownership interests in subsidiaries	(14,991,990)

Revenue and net profit of Glow Energy Public Company Limited and its subsidiaries (Glow Group) since the acquisition date included in the consolidated statement of income for the year ended 31 December 2019 were Baht 41,032 million and Baht 6,258 million, respectively.

Had Glow Group been consolidated on 1 January 2019, the consolidated statement of income for the year ended 31 December 2019 would show revenue from sales and service and revenue from lease receivable of Baht 49,719 million and Baht 464 million, respectively and net profit of Baht 7,757 million.

(b) Natee Synergy Company Limited

During the year ended 31 December 2019, Natee Synergy Company Limited called for additional paid-up share capital and the Company paid for additional paid-up share capital in the same portion as its original investment, totalling Baht 321 million.

(c) Energy Recovery Unit Company Limited (ERU)

On 7 May 2019, the Company established Energy Recovery Unit Company Limited which registered in Thailand with registered capital ordinary shares of 47.7 million shares at par value of Baht 10, totalling Baht 477 million. The Company owns 100% shareholding interests in ERU and fully paid for all called share capital. The principal business operation of the subsidiary is to generate and supply electricity.

(d) Ichinoseki Solar Power 1 GK

On 5 July 2019, the Company received cash paid back for capital reduction from Ichinoseki Solar Power 1 GK which was agreed by both shareholders on an equity true-up condition amounting to JPY 188 million, which is equivalent to Baht 53 million. As a result, the Company recognised a loss on exchange rate amounting to Baht 5 million in the separate statement of income.

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The detail of investments in direct subsidiaries are as follows:

Company	Business	Separate financial information					
		Portion of ordinary shares held by the Company		Cost Method		Dividend income during the year	
		2019 %	2018 %	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
<u>Direct subsidiaries established in Thailand</u>							
Combined Heat and Power Producing Company Limited	Generate and supply electricity and cold water, construction and installation of electricity system services	100	100	265,510	265,510	-	-
Natee Synergy Company Limited	Invest in other companies	100	100	7,061,736	6,740,753	-	-
IRPC Clean Power Company Limited	Generate and supply electricity and steam for industrial use	51	51	1,822,330	1,822,330	-	-
Global Renewable Power Company Limited	Invest in other companies	100	100	1,000	1,000	-	-
Glow Energy Public Company Limited and its subsidiaries	Generate and supply electricity	45.67	-	60,924,273	-	5,737,668	-
GPSC Holding (Thailand) Company Limited (formally as ENGIE Holding (Thailand) Company Limited)	Invest in other companies	100	-	72,882,933	-	7,432,353	-
Energy Recovery Unit Company Limited	Generate and supply electricity	100	-	477,000	-	-	-
<u>Direct subsidiary established in Japan</u>							
Ichinoseki Solar Power 1 GK	Generate and supply electricity	99	99	487,023	545,250	-	-
<u>Direct subsidiary established in Hong Kong</u>							
GPSC International Holdings Limited	Invest in other companies	100	100	3,336	3,336	-	-
Total investments in subsidiaries				143,925,141	9,378,179	13,170,021	

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The detail of investments in indirect subsidiaries are as follow:

		Separate financial statements					
		Portion of ordinary shares held by the Group		Cost Method		Dividend income during the year	
Company	Business	2019 %	2018 %	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
<u>Indirect subsidiaries established in Thailand</u>							
Glow Energy Public Company Limited	Generate and supply electricity	54.16	-	-	-	-	-
Glow Company Limited	Provide management services, consultant services and management advisory for related companies	100	-	-	-	-	-
Glow IPP Company Limited	Generate and supply electricity to EGAT	95	-	-	-	-	-
Glow SPP 2 Company Limited	Generate and supply electricity and steam for industrial use	100	-	-	-	-	-
Glow SPP 3 Company Limited	Generate and supply electricity, steam and water for industrial use	100	-	-	-	-	-
Glow IPP 2 Holding Company Limited	Invest in other companies	100	-	-	-	-	-
GHECO-One Company Limited	Generate and supply electricity to EGAT	65	-	-	-	-	-
Glow IPP 3 Company Limited	Develop power generation projects	100	-	-	-	-	-
Glow SPP 11 Company Limited	Generate and supply electricity and water for industrial use	100	-	-	-	-	-
Houay Ho Thai Company Limited	Invest in other companies	49	-	-	-	-	-
<u>Indirect subsidiary established in Laos</u>							
Houay Ho Power Company Limited	Generate and supply electricity to EGAT and Electricity du Laos (EDL)	67.25	-	-	-	-	-
<u>Indirect subsidiary established in Myanmar</u>							
Glow Energy Myanmar Company Limited	Provide technical and consultancy services for power sector	100	-	-	-	-	-

As at 31 December 2019, the Group pledged the common shares of GHECO-One Company Limited and Houay Ho Power Company Limited as collateral for their long-term loans from financial institutions (Note 23).

Summarised financial information for subsidiaries with material non-controlling interests

Set out below are the summarised financial information of each subsidiary that has non-controlling interests that are material to the Group. The amounts disclosed for each subsidiary are the amounts before the inter-company elimination.

Summarised statement of financial position

As at 31 December	IRPC Clean Power Company Limited		GHECO-One Company Limited		Total	
	2019	2018	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000
Current assets	2,722,664	2,306,405	8,271,340	-	10,994,004	2,306,405
Current liabilities	(1,569,296)	(1,930,273)	(3,589,043)	-	(5,158,339)	(1,930,273)
Total current net assets	1,153,368	376,132	4,682,297	-	5,835,665	376,132
Non-current assets	11,269,803	11,796,823	32,895,734	-	44,165,537	11,796,823
Non-current liabilities	(6,555,924)	(7,373,822)	(22,147,527)	-	(28,703,451)	(7,373,822)
Total non-current net assets	4,713,879	4,423,001	10,748,207	-	15,462,086	4,423,001
Net assets	5,867,247	4,799,133	15,430,504	-	21,297,751	4,799,133
Non-controlling interests	2,874,951	2,351,575	5,400,676	-	8,275,627	2,351,575

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Summarised statement of comprehensive income

For the year ended 31 December	IRPC Clean Power Company Limited		GHECO-One Company Limited		Total	
	2019	2018	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000
Revenue	6,616,703	6,316,743	11,521,234	-	18,137,937	6,316,743
Profit (Loss)	1,068,114	1,079,838	2,181,659	-	3,249,773	1,079,838
Other comprehensive income	-	(2,569)	-	-	-	(2,569)
Total comprehensive income	1,068,114	1,077,269	2,181,659	-	3,249,773	1,077,269
Income attributable to non-controlling interests	523,376	529,121	763,581	-	1,286,957	529,121
Dividend paid to non-controlling interests	-	-	564,287	-	564,287	-

Summarised of statement of cash flow

For the year ended 31 December	IRPC Clean Power Company Limited		GHECO-One Company Limited		Total	
	2019	2018	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000	Baht'000
Net cash flow from operating activities	1,648,505	1,774,739	4,801,393	-	6,449,898	1,774,739
Net cash flow from investing activities	(724,244)	(822,509)	(271,837)	-	(996,081)	(822,509)
Net cash flow from financing activities	(1,217,634)	(614,159)	(3,856,815)	-	(5,074,449)	(614,159)
Net increase (decrease) in cash and cash equivalent	(293,373)	338,071	672,741	-	379,368	338,071
Cash and cash equivalents at the beginning of the year	469,765	131,694	2,601,362	-	3,071,127	131,694
Loss from exchange rate of cash and cash equivalents	-	-	(4,468)	-	(4,468)	-
Cash and cash equivalents at the ending of the year	176,392	469,765	3,269,635	-	3,446,026	469,765

14.2 Investments in associates

Movements of investments in associates for the period year 31 December 2019 are as follows:

	Consolidated financial statements	Separate financial statements
	Investment in equity method Baht'000	Investment in cost method Baht'000
Opening net book value	7,065,122	923,750
Additional investments	320,983	-
Increase from business acquisition (Note 14.1)	328,533	-
Share of profit	383,973	-
Dividend income	(131,869)	-
Closing net book value	7,966,742	923,750

The significant movement of investments in associates for the year ended 31 December 2019 is as follow:

Xayaburi Power Company Limited

During the year ended 31 December 2019, Xayaburi Power Company Limited called for additional paid-up share capital. The Group paid for additional paid-up share capital in the same portion as its original investment, totalling Baht 321 million.

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The detail of investments in associates are as follows:

Company	Business	Consolidated financial statements							
		Portion of ordinary shares held by the Group		Cost Method		Equity Method		Dividend income during the year	
		2019 %	2018 %	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
<u>Direct associate established in Thailand</u>									
Bangpa-in Cogeneration Company Limited	Generate and supply electricity	25	25	923,750	923,750	866,263	881,009	131,869	81,150
<u>Indirect associate established in Laos</u>									
Xayaburi Power Company Limited	Generate and supply electricity	25	25	6,993,512	6,672,529	6,767,581	6,184,113	-	-
<u>Indirect associate established in Thailand</u>									
Eastern Seaboard Clean Energy Company Limited and its subsidiaries	Studying, generating and supply electricity for industrial use including generating electricity from renewable energy	33	-	339,270	-	332,898	-	-	-
Total investments in associates				8,256,532	7,596,279	7,966,742	7,065,122	131,869	81,150

The detail of investments in an associate are as follows:

Company	Business	Separate financial statements					
		Portion of ordinary shares held by the Company		Cost Method		Dividend income during the year	
		2019 %	2018 %	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
<u>Associate established in Thailand</u>							
Bangpa-in Cogeneration Company Limited	Generate and supply electricity	25	25	923,750	923,750	131,869	81,150
Total investments in an associate				923,750	923,750	131,869	81,150

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Summarised financial information for associates

The table below is the summarised financial information for an associate that is material to the Group. The financial information is included in its own financial statements which has been adjusted with the adjustments for the equity method, including fair value adjustments and modifications for differences in accounting policies.

Summarised statement of financial position

As at 31 December	Xayaburi Power Company Limited	
	2019	2018
	Baht'000	Baht'000
Total current assets	2,857,482	841,156
Total non-current assets	126,999,510	124,116,662
Total current liabilities	(4,662,705)	(1,946,527)
Total non-current liabilities	(98,263,319)	(98,414,196)
Net assets	26,930,968	24,597,095

Summarised statement of comprehensive income

For the year ended 31 December	Xayaburi Power Company Limited	
	2019	2018
	Baht'000	Baht'000
Revenue	1,565,113	-
Profit (loss) from continuing operations	1,049,942	(100,135)
Post-tax profit (loss) from discontinued operations	-	-
Other comprehensive income	-	-
Gain (loss) on comprehensive income	1,049,942	(100,035)
Dividend received from associates	-	-
Reconciliation to carrying amounts:		
Opening net assets at 1 January	24,597,095	21,183,859
Increasing in share capital	1,283,931	3,512,241
Profit for the year	1,049,942	(99,005)
Other comprehensive income	-	-
Dividends paid	-	-
Closing net assets	26,930,968	24,597,095
Group's share in associates (%)	25%	25%
Group's share in associates (Baht)	6,732,742	6,149,274
Goodwill	34,839	34,839
Associate carrying amount	6,767,581	6,184,113

Individually immaterial associates

In addition to the interests in associate disclosed above, the Group also has interests in a number of individually immaterial associates that are accounted for using the equity method as follows:

	Consolidated statements
	2019
	Baht'000
Aggregate carrying amount of individually immaterial associates	1,199,160
The Group's share of:	
Profit from continuing operations	121,487
Other comprehensive income	-
Total comprehensive income	121,487

14.3 Investments in joint ventures

Movements of investments in joint ventures for the year ended 31 December 2019 are as follows:

	Consolidated financial statements Investment in equity method Baht'000	Separate financial statements Investment in cost method Baht'000
Opening net book value	2,700,255	2,613,034
Additional investments	66,695	66,695
Share of net profit	453,113	-
Dividend income	(524,367)	-
Exchange difference on translation	(37,271)	-
Closing net book value	2,658,425	2,679,729

The significant movement of investments in joint ventures for the year ended 31 December 2019 is as follow:

Nam Lik 1 Power Company Limited

During the year ended 31 December 2019, Nam Lik 1 Power Company Limited called for additional paid-up share capital. The Company paid for additional paid-up share capital in the same portion as its original investment, totalling Baht 67 million.

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The detail of investments in joint ventures are as follows:

		Consolidated and separate financial statements							
		Portion of ordinary shares held by the Company		Cost Method		Equity Method		Dividend income during the year	
Company	Business	2019 %	2018 %	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
<u>Joint ventures established in Thailand</u>									
Thai Solar Renewable Company Limited	Invest in other company	40	40	1,697,000	1,697,000	1,579,048	1,638,799	404,367	382,433
Navanakorn Electricity Generating Company Limited	Generate and supply electricity	30	30	488,400	488,400	523,121	599,755	120,000	108,000
<u>Joint venture established in Laos</u>									
Nam Lik 1 Power Company Limited	Generate and supply electricity	40	40	494,329	427,634	556,256	461,701	-	-
Total investments in joint ventures				2,679,729	2,613,034	2,658,425	2,700,255	524,367	490,433

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Summarised financial information for joint ventures

The table below is the summarised financial information for joint venture that is material to the Group. The financial information is included in its own financial statements which has been adjusted with necessary adjustments for the equity method, including fair value adjustments and modifications for differences in accounting policies.

Summarised statement of financial position

As at 31 December	Thai Solar Renewable Company Limited	
	2019	2018
	Baht'000	Baht'000
Current assets		
Cash and cash equivalents	1,473	1,554
Other current assets (exclude cash)	617,926	595,084
Total current assets	619,399	596,638
Non-current assets	5,775,751	6,231,854
Current liabilities		
Current financial liabilities (Exclude trade payables)	(321,750)	(321,750)
Other current liabilities (Include trade payables)	(304,104)	(265,967)
Total current liabilities	(625,854)	(587,717)
Non-current liabilities		
Non-current financial liabilities	(1,861,541)	(2,183,291)
Other non-current liabilities	(48,332)	(48,683)
Total non-current liabilities	(1,909,873)	(2,231,974)
Total net assets	3,859,423	4,008,801

Summarised statement of comprehensive income

For the year ended 31 December	Thai Solar Renewable Company Limited	
	2019	2018
	Baht'000	Baht'000
Revenue	1,541,695	1,480,626
Depreciation and amortisation	(233,538)	(232,927)
Interest income	-	2,574
Interest expense	(104,205)	(124,893)
Profit from continuing operations	862,291	774,905
Income tax expense	(752)	(1,397)
Post-tax profit from discontinued operations	861,539	773,508
Loss on comprehensive income	-	-
Total comprehensive income	861,539	773,508
Dividend received from joint ventures	404,367	382,433
Reconciliation to carrying amounts:		
Opening net assets at 1 January	4,008,801	4,191,376
Increasing in share capital	-	-
Profit for the year	861,539	773,508
Other comprehensive income	-	-
Dividends paid	(1,010,917)	(956,083)
Closing net assets	3,859,423	4,008,801
Group's share in joint ventures (%)	40%	40%
Group's share in joint ventures	1,543,769	1,603,520
Goodwill	35,279	35,279
Joint venture's carrying amount	1,579,048	1,638,799

	Consolidated statements 2019 Baht'000
Aggregate carrying amount of individually immaterial joint ventures	1,079,377
The Group's share of:	
Profit from continuing operations	108,498
Other comprehensive income	-
Total comprehensive income	108,498

14.4 Dividend receivables from subsidiaries, associates and joint ventures

The movements of dividend receivables can be analysed as follows:

	Consolidated financial statements Baht'000	Separate financial statements Baht'000
For the year ended 31 December 2019		
Opening balance	89,833	89,833
Dividends declared by subsidiaries, associates and joint ventures	656,236	13,826,257
Dividends received from subsidiaries, associates and joint ventures	(643,869)	(1,833,905)
Closing balance	102,200	12,082,185

15 Other long-term investments

Movements of other long-term investments for the year ended 31 December 2019 are as follows:

	Consolidated financial statements Baht'000	Separate financial statements Baht'000
Opening net book value	3,213,555	3,213,555
Additional investments	61,090	61,090
Increase from business acquisition (Note 14.1)	1,500	-
Closing net book value	3,276,145	3,274,645

The significant movement of other long-term investments for the year ended 31 December 2019 is as follow:

San Palung Social Enterprise Company Limited

During the year ended 31 December 2019, San Palung Social Enterprise Company Limited called for additional paid-up share capital. The Company paid for additional paid-up share capital in the same portion as its original investment, totalling Baht 1 million.

24M Technologies, Inc.

During the year ended 31 December 2019, 24M Technologies, Inc. called for additional paid-up share capital. The Company paid for additional paid-up share capital, totalling Baht 60 million.

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The detail of other long-term investments are as follows:

Company	Business	Consolidated financial statements					
		Portion of shares held by the Group		Cost Method		Dividend income during the year	
		2019 %	2018 %	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
<u>Other non-marketable equity securities</u>							
Ordinary shares							
- Ratchaburi Power Company Limited	Generate and supply electricity	15	15	2,207,000	2,207,000	177,000	135,000
- San Palung Social Enterprise Company Limited	Social enterprise	10	10	1,000	250	-	-
- Eastern Fluid Transport Co Ltd	Service	15	-	1,500	-	8,400	-
Preferred shares							
- Business Services Alliance Company Limited	Human resource management	25	25	500	500	5	5
- 24M Technologies, Inc.	Research and development in battery	32.7	29.5	1,066,145	1,005,805	-	-
Total other long-term investments				3,276,145	3,213,555	185,405	135,005

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The detail of other long-term investments are as follows:

Company	Business	Separate financial statements					
		Portion of shares held by the Company		Cost Method		Dividend income during the year	
		2019 %	2018 %	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
<u>Other non-marketable equity securities</u>							
Ordinary shares							
- Ratchaburi Power Company Limited	Generate and supply electricity	15	15	2,207,000	2,207,000	177,000	135,000
- San Palung Social Enterprise Company Limited	Social enterprise	10	10	1,000	250	-	-
Preferred shares							
- Business Services Alliance Company Limited	Human resource management	25	25	500	500	5	5
- 24M Technologies, Inc.	Research and development in battery	32.7	29.5	1,066,145	1,005,805	-	-
Total other long-term investments				3,274,645	3,213,555	177,005	135,005

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16 Property, plant and equipment, net

	Consolidated financial statements						
	Land Baht'000	Buildings and building improvements Baht'000	Power plant, machinery and equipment Baht'000	Furniture, fixtures and office equipment Baht'000	Vehicles Baht'000	Construction in progress Baht'000	Total Baht'000
As at 1 January 2018							
Cost	914,836	1,778,582	33,134,264	135,102	19,847	1,052,502	37,035,133
Less Accumulated depreciation	-	(323,700)	(9,292,054)	(79,259)	(5,254)	-	(9,700,267)
Less Allowance for impairment	-	-	(46,163)	-	-	(42,990)	(89,153)
Net book value	914,836	1,454,882	23,796,047	55,843	14,593	1,009,512	27,245,713
For the year ended 31 December 2018							
Opening net book value	914,836	1,454,882	23,796,047	55,843	14,593	1,009,512	27,245,713
Additions	274,271	826	13,720	6,763	4,360	2,687,291	2,987,231
Disposals, net	-	(9,215)	(167)	(9)	-	-	(9,391)
Transfer in (out)	-	125,698	876,173	15,970	-	(1,017,841)	-
Transfer to assets not used in operation	-	-	-	-	-	(8,855)	(8,855)
Depreciation	-	(61,281)	(1,569,776)	(13,673)	(3,659)	-	(1,648,389)
Exchange difference on translation	-	-	(31,097)	(2)	-	-	(31,099)
Closing net book value	1,189,107	1,510,910	23,084,900	64,892	15,294	2,670,107	28,535,210
As at 31 December 2018							
Cost	1,189,107	1,891,222	34,055,163	155,289	24,207	2,670,107	39,985,095
Less Accumulated depreciation	-	(380,312)	(10,903,754)	(90,397)	(8,913)	-	(11,383,376)
Less Allowance for impairment	-	-	(66,509)	-	-	-	(66,509)
Net book value	1,189,107	1,510,910	23,084,900	64,892	15,294	2,670,107	28,535,210

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	Consolidated financial statements						
	Land Baht'000	Buildings and building improvements Baht'000	Power plant, machinery and equipment Baht'000	Furniture, fixtures and office equipment Baht'000	Vehicles Baht'000	Construction in progress Baht'000	Total Baht'000
As at 1 January 2019							
Cost	1,189,107	1,891,222	34,055,163	155,289	24,207	2,670,107	39,985,095
Less Accumulated depreciation	-	(380,312)	(10,903,754)	(90,397)	(8,913)	-	(11,383,376)
Less Allowance for impairment	-	-	(66,509)	-	-	-	(66,509)
Net book value	1,189,107	1,510,910	23,084,900	64,892	15,294	2,670,107	28,535,210
For the year ended 31 December 2019							
Opening net book value	1,189,107	1,510,910	23,084,900	64,892	15,294	2,670,107	28,535,210
Additions	-	1,732	106,742	28,964	90	2,970,220	3,107,748
Disposals, net	-	(1,746)	(115,881)	(171)	(1,842)	-	(119,640)
Increased from business acquisition (Note 14.1)	648,515	252,796	74,179,423	44,256	3,585	207,011	75,335,586
Transfer in (out)	-	12,452	3,874,986	18,324	-	(3,930,715)	(24,953)
Depreciation	-	(81,136)	(5,083,145)	(30,571)	(5,667)	-	(5,200,519)
Impairment of assets	-	-	(128,983)	-	-	-	(128,983)
Exchange difference on translation	-	(317)	(231,918)	(161)	(62)	(35)	(232,493)
Closing net book value	1,837,622	1,694,691	95,686,124	125,533	11,398	1,916,588	101,271,956
As at 31 December 2019							
Cost	1,837,622	2,146,825	111,540,891	235,924	20,226	1,916,588	117,698,076
Less Accumulated depreciation	-	(452,134)	(15,659,275)	(110,391)	(8,828)	-	(16,230,628)
Less Allowance for impairment	-	-	(195,492)	-	-	-	(195,492)
Net book value	1,837,622	1,694,691	95,686,124	125,533	11,398	1,916,588	101,271,956

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	Separate financial statements						
	Land Baht'000	Buildings and building improvements Baht'000	Power plant, machinery and equipment Baht'000	Furniture, fixtures and office equipment Baht'000	Vehicles Baht'000	Construction in progress Baht'000	Total Baht'000
As at 1 January 2018							
Cost	300,785	765,609	21,271,635	132,592	19,536	768,800	23,258,957
<u>Less</u> Accumulated depreciation	-	(257,218)	(8,805,410)	(77,858)	(5,201)	-	(9,145,687)
Net book value	300,785	508,391	12,466,225	54,734	14,335	768,800	14,113,270
For the year ended 31 December 2018							
Opening net book value	300,785	508,391	12,466,225	54,734	14,335	768,800	14,113,270
Additions	274,271	738	20,186	5,584	4,360	2,518,237	2,823,376
Disposals, net	-	(9,215)	(167)	(9)	-	-	(9,391)
Transfer in (out)	-	7,757	618,825	-	-	(626,582)	-
Depreciation	-	(29,835)	(1,010,623)	(12,044)	(3,597)	-	(1,056,099)
Closing net book value	575,056	477,836	12,094,446	48,265	15,098	2,660,455	15,871,156
As at 31 December 2018							
Cost	575,056	760,220	21,906,182	135,632	23,896	2,660,455	26,061,441
<u>Less</u> Accumulated depreciation	-	(282,384)	(9,811,736)	(87,367)	(8,798)	-	(10,190,285)
Net book value	575,056	477,836	12,094,446	48,265	15,098	2,660,455	15,871,156

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	Separate financial statements						
	Land Baht'000	Buildings and building improvements Baht'000	Power plant, machinery and equipment Baht'000	Furniture, fixtures and office equipment Baht'000	Vehicles Baht'000	Construction in progress Baht'000	Total Baht'000
As at 1 January 2019							
Cost	575,056	760,220	21,906,182	135,632	23,896	2,660,455	26,061,441
<u>Less</u> Accumulated depreciation	-	(282,384)	(9,811,736)	(87,367)	(8,798)	-	(10,190,285)
Net book value	575,056	477,836	12,094,446	48,265	15,098	2,660,455	15,871,156
For the year ended 31 December 2019							
Opening net book value	575,056	477,836	12,094,446	48,265	15,098	2,660,455	15,871,156
Additions	-	769	28,093	5,150	-	2,369,964	2,403,976
Disposals, net	-	(1,747)	(670)	(134)	(1,842)	-	(4,393)
Transfer in (out)	-	6,694	3,545,500	12,917	-	(3,577,807)	(12,695)
Depreciation	-	(29,568)	(1,069,977)	(11,495)	(3,968)	-	(1,115,008)
Closing net book value	575,056	453,984	14,597,392	54,703	9,288	1,452,612	17,143,035
As at 31 December 2019							
Cost	575,056	757,117	25,456,455	146,646	17,080	1,452,612	28,404,966
<u>Less</u> Accumulated depreciation	-	(303,133)	(10,859,063)	(91,943)	(7,792)	-	(11,261,931)
Net book value	575,056	453,984	14,597,392	54,703	9,288	1,452,612	17,143,035

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During the year ended 31 December 2019, the Group recognised impairment loss for some machines of power plant phase 2 in the consolidated statement of income in amounting to Baht 129 million due to the termination of its operation. Management determined the recoverable amount using value in use.

The gross amount of the Group's fully depreciated plant and equipment that were still in use as at 31 December 2019 was Baht 3,552 million (2018: Baht 699 million).

Security

As at 31 December 2019, the Group's property, plant and equipment with a net book value of Baht 42,843 million were mortgaged and pledged as collateral for the long-term loans, as described in Note 23 (as at 31 December 2018: Baht 12,286 million).

Borrowing costs

The Group capitalised borrowing costs of Baht 33 million (2018: Baht 21 million) which arose from financing for the construction of new power plants. The capitalisation rate were from 2.49% to 2.54% per annum (2018: capitalisation rate from 1.5% to 5.0% per annum).

17 Intangible assets, net

	Consolidated financial statements			
	Right to power purchase agreement/ to operate Baht'000	Computer software Baht'000	Right of use assets Baht'000	Total Baht'000
As at 1 January 2018				
Cost	417,256	155,369	-	572,625
<u>Less</u> Accumulated amortisation	-	(62,642)	-	(62,642)
Net book value	417,256	92,727	-	509,983
For the year ended 31 December 2018				
Opening net book value	417,256	92,727	-	509,983
Additions	-	13,842	-	13,842
Amortisation	(11,983)	(14,292)	-	(26,275)
Exchange difference on translation	978	-	-	978
Closing net book value	406,251	92,277	-	498,528
As at 31 December 2018				
Cost	418,234	169,211	-	587,445
<u>Less</u> Accumulated amortisation	(11,983)	(76,934)	-	(88,917)
Net book value	406,251	92,277	-	498,528

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Consolidated financial statements				
	Right to power purchase agreement/ to operate Baht'000	Computer software Baht'000	Right of use assets Baht'000	Total Baht'000
For the year ended 31 December 2019				
Opening net book value	406,251	92,277	-	498,528
Increasing from reclassification	-	-	1,782,469	1,782,469
Opening net book value				
- As reported in this financial information	406,251	92,277	1,782,469	2,280,997
Additions	-	23,130	76,555	99,685
Increasing from business acquisition (Note 14.1)	44,480,000	59,552	880,163	45,419,715
Reclassification	-	7,576	-	7,576
Amortisation	(1,527,436)	(28,352)	(162,101)	(1,717,889)
Exchange difference on translation	(23,132)	-	(4,557)	(27,689)
Closing net book value	43,335,683	154,183	2,572,529	46,062,395
As at 31 December 2019				
Cost	44,877,355	441,358	3,928,317	49,247,030
<u>Less</u> Accumulated amortisation	(1,541,672)	(287,175)	(1,355,788)	(3,184,635)
Closing net book value	43,335,683	154,183	2,572,529	46,062,395
Separate financial statements				
	Right to power purchase agreement/ to operate Baht'000	Computer software Baht'000	Right to use of assets Baht'000	Total Baht'000
As at 1 January 2018				
Cost	-	138,705	-	138,705
<u>Less</u> Accumulated amortisation	-	(56,966)	-	(56,966)
Net book value	-	81,739	-	81,739
For the year ended 31 December 2018				
Opening net book value	-	81,739	-	81,739
Additions	-	11,786	-	11,786
Amortisation	-	(12,881)	-	(12,881)
Closing net book value	-	80,644	-	80,644
As at 31 December 2018				
Cost	-	150,492	-	150,492
<u>Less</u> Accumulated amortisation	-	(69,848)	-	(69,848)
Net book value	-	80,644	-	80,644

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	Separate financial statements			
	Right to power purchase agreement/ to operate Baht'000	Computer software Baht'000	Right to use of assets Baht'000	Total Baht'000
For the year ended 31 December 2019				
Opening net book value	-	80,644	-	80,644
Increasing from reclassification	-	-	164,346	164,346
Opening net book value				
- As reported in this financial information	-	80,644	164,346	244,990
Additions	-	926	-	926
Reclassification	-	7,575	-	7,575
Amortisation	-	(14,478)	(26,333)	(40,811)
Closing net book value	-	74,667	138,013	212,680
As at 31 December 2019				
Cost	-	158,993	354,303	513,296
<u>Less</u> Accumulated amortisation	-	(84,326)	(216,290)	(300,616)
Net book value	-	74,667	138,013	212,680

Right to use of asset of the Group consisted of right to use grid system, right of power plant operation, right to use transmission line, deferred land leasehold right, right to use gas pipeline, right of way, right to use pipe rack and right to use dedicated berth.

18 Goodwill

	Consolidated financial statements Baht'000
As at 1 January 2019	
Cost	15,043
<u>Less</u> Provision for impairment	-
Net book value	15,043
For the year ended 31 December 2019	
Opening net book value	15,043
Increasing from business combination (Note 14.1)	36,089,836
Exchange difference on translation	(880)
Closing net book value	36,103,999
As at 31 December 2019	
Cost	36,103,999
<u>Less</u> Provision for impairment	-
Net book value	36,103,999

Goodwill arose from the acquisitions of the production and distribution of electricity, steam and water businesses in Thailand and foreign countries. The Group's management allocate goodwill to each of operating segments which are Independent Power Producer, Small Power Producer and Others

Goodwill of Baht 36,089 million arising from the acquisitions of Glow Energy Public Company Limited (GLOW), a company that produces and distributes electricity (both Independent Power Producer and Small Power Producer), steam and water for industrial use (Note 14.1). As at 31 December 2019, the Company is under the process of allocating goodwill from GLOW acquisition.

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Goodwill arising from each operating segment of electricity generation businesses is tested annually for impairment by comparing the carrying amount to the recoverable amount which is determined based on value-in-use calculations. The value-in-use was calculated by using a cash flow projection, which is approved by the management, covering the remaining periods of Power Purchase Agreements and using the estimation of electricity tariffs and the power plant's capacity. The inflation rates and discount rates which are the weighted average costs of capital used for each operating segment were as follows:

	Consolidated financial statements	
	2019	
	Independent Power Producer %	Small Power Producer %
Inflation rate	1.1 - 2.1	1.1 - 2.1
Discount rate	5.3	5.3

19 Trade payables

As at 31 December	Note	Consolidated financial statements		Separate financial statements	
		2019	2018	2019	2018
		Baht'000	Baht'000	Baht'000	Baht'000
Trade payables - related parties	34.4	3,357,012	1,752,267	1,066,690	1,036,415
Trade payables - third parties		908,859	41,642	52,777	41,379
Accrued expenses - related parties	34.4	302,540	96,612	302,540	96,611
Accrued expenses - third parties		12,950	10,978	6,978	4,193
Total trade payables		4,581,361	1,901,499	1,428,985	1,178,598

20 Other payables

As at 31 December	Note	Consolidated financial statements		Separate financial statements	
		2019	2018	2019	2018
		Baht'000	Baht'000	Baht'000	Baht'000
Other payables - related parties	34.4	621,431	424,547	309,545	252,381
Other payables - third parties		529,578	317,466	328,873	268,555
Advance received		175,393	27,416	90,192	26,735
Interest payables		479,160	40,919	180,373	33,250
Accrued expenses		1,487,896	146,432	103,460	123,492
Others		257,849	35,142	25,031	34,811
Total other payables		3,551,307	991,922	1,037,474	739,224

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21 Short term loans, net

The short-term loans from financial institutions are as follows:

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Short term loans from financial institutions	19,290,908	-	19,290,908	-
<u>Less</u> Deferred financing fee	(38,193)	-	(38,193)	-
Total short-term loans	19,252,715	-	19,252,715	-

The movement of the short-term loans can be analysed as follows:

For the year ended 31 December	Consolidated financial statement		Separate financial statement	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Opening net book value	-	-	-	-
Cash flows				
Increase during the year	99,294,000	-	99,294,000	-
Deferred financing fees	(876,000)	-	(876,000)	-
Repayment during the year	(80,704,642)	-	(80,003,092)	-
Other non-cash movement				
Increase from business acquisition (Note 14.1)	701,550	-	-	-
Amortisation of deferred financing fees	837,807	-	837,807	-
Closing book value	19,252,715	-	19,252,715	-

Short-term of the Company

Short-term loans from financial institutions

On 11 March 2019, the Company entered into the short-term loan agreements with financial institutions for a short-term loan facilities not exceeding 12 months totalling Baht 99,500 million. The loan facilities of Baht 79,865 million bears interest at 3M BIBOR plus a certain fixed margin per annum and the loan facilities of Baht 18,929 million bears interest at a fixed rate per annum. The interest of the loans shall be paid every three months. The both loans were drawn down on 14 March 2019, 22 May 2019 and 2 December 2019. During the year 2019, the Company repaid totalling Baht 80,003 million.

On 22 July 2019, the Company entered into the amendment of short-term loan agreement with financial institution. For the purposes of extending the loan draw down period totalling Baht 1,000 million from the original short-term loan agreement with effective date on 25 July 2019. The loan facilities bears interest at fixed rate per annum and shall be paid every three months. During the year 2019, the Company drawn down this short-term loan totalling Baht 500 million.

22 Other current liabilities

As at 31 December 2019, other current liabilities comprised of accrued income tax, undue value added tax, and other long-term employee benefit totalling Baht 476 million, Baht 160 million and Baht 201 million, respectively.

23 Long-term loans from financial institutions, net

23.1 The long-term loans from financial institutions are as follows:

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Long-term Thai Baht loans	17,552,514	10,470,206	2,000,000	2,000,000
<u>Add</u> Fair value adjustment from business acquisition	283,500	-	-	-
Total long-term Thai Baht loans	17,836,014	10,470,206	2,000,000	2,000,000
Long-term US Dollar loans	9,762,005	-	-	-
Long-term Japanese Yen loans	1,892,513	2,131,819	-	-
<u>Less</u> Deferred financing fees	(275,927)	(92,977)	(7,915)	(8,815)
	29,214,605	12,509,048	1,992,085	1,991,185
<u>Less</u> Current portion of long-term loans from financial institutions	(2,565,696)	(1,052,162)	(352,500)	-
Total long-term loans from financial institutions, net	26,648,909	11,456,886	1,639,585	1,991,185

Long-term loans from financial institutions of the Company

Details of long-term loans from financial institutions of the Company are as follows:

Thai Baht loans

Number	Outstanding balance As at 31 December 2019 (Million Baht)	Outstanding balance As at 31 December 2018 (Million Baht)	Interest rate	Principal repayment term	Interest payment period
1	500	500	THBFIX six-month plus a certain margin per annum	Repayment every six month from November 2020	Payment every six months
2	1,000	1,000	BIBOR three-month plus a certain margin per annum	Repayment every six months from May 2020	Payment every six months
3	500	500	BIBOR three-month plus a certain margin per annum	Repayment every six months from June 2020	Payment every six months
Total	2,000	2,000			

Long-term loans from financial institutions of subsidiaries

The subsidiaries have entered into long-term loan facility agreements with financial institutions amounting to Baht 15,552 million, US Dollar 322 million which is equivalent to Baht 9,762 million and Japanese Yen 6,858 million which is equivalent to Baht 1,893 million (2018: Baht 8,470 million and Japanese yen 7,274 million which is equivalent to Baht 2,132 million) as follows:

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Thai Baht loans

Number	Outstanding balance As at 31 December 2019 (Million Baht)	Outstanding balance As at 31 December 2018 (Million Baht)	Interest rate	Principal repayment term	Interest payment period
1	7,399	8,324	FDR six-month plus a certain margin per annum	Repayment every six months from June 2018	Payment every six months
2	134	146	Fixed interest rate per annum	Repayment every six months from June 2017	Payment every six months
3	4,000	-	Fixed interest rate per annum	Repayment in May 2023	Payment every six months
4	4,019	-	THBFIX plus a certain margin per annum	Repayment every six months from October 2012	Payment every three months
Total	15,552	8,470			

US Dollar loans

Number	Outstanding balance As at 31 December 2019 (Million US Dollar)	Outstanding balance As at 31 December 2018 (Million US Dollar)	Interest rate	Principal repayment term	Interest payment period
1	86	-	USD-LIBOR plus a certain margin per annum	Repayment in February 2022	Payment every three months
2	196	-	LIBOR plus a certain margin per annum	Repayment every six months from October 2012	Payment every three months
3	41	-	LIBOR plus a certain margin per annum	Repayment every six months from June 2015	Payment every six months
Total	323	-			

The US Dollar loans have been guaranteed by three subsidiaries including mortgaged the buildings and pledged all machinery and equipment and deposits at financial institutions (Note 7 and 16). All rights and obligations under various agreements relating to the power plant projects of the subsidiaries have been assigned as collateral in accordance with the conditions under the loan agreements. In addition, the Group is required to comply with certain requirements and conditions; for example, maintaining the debt service coverage ratio and coal stockpile.

Japanese Yen loans

Number	Outstanding balance As at 31 December 2019 (Million Yen)	Outstanding balance As at 31 December 2018 (Million Yen)	Interest rate	Principal repayment term	Interest payment period
1	6,858	7,274	JPY-LIBOR plus a certain margin per annum	Repayment every six months from May 2018	Payment every six months

According to loan agreements, the Group is required to comply with certain requirements such as timing of future capital increase, dividend payment, reduction of share capital, merger and acquisition and maintaining financial ratios e.g. debt to equity ratio and debt service coverage ratio, etc.

23.2 Interest rate risk management

The detail of interest rate swap contracts for long-term loans from financial institutions of the Group are shown in Note 36.

The interest rate exposure on the long-term loans from financial institutions of the Group before taking account of interest rate swap contract are as follows:

	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Long-term loans from financial institutions, net				
- at fixed rates	4,414,582	145,388	-	-
- at floating rates	24,800,023	12,363,660	1,992,085	1,991,185
Total long-term loans from financial institutions, net	29,214,605	12,509,048	1,992,085	1,991,185

23.3 The movement of the long-term loans from financial institutions of the Group can be analysed as follows:

	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
For the year ended 31 December				
Opening net book value	12,509,048	10,814,599	1,991,185	-
Cash flow				
Increase during the year	2,715,591	2,865,846	-	2,000,000
Repayments during the year	(5,209,608)	(1,199,461)	-	-
Other non-cash movement				
Increase from business acquisition (Note 14.1)	19,796,686	-	-	-
Amortisation of fair value from business acquisition	(35,636)	-	-	-
Amortisation of deferred financing fee	30,235	(2,790)	900	(8,815)
Unrealised exchange (gains) loss	(406,481)	30,854	-	-
Exchange difference on translation	(185,230)	-	-	-
Closing book value	29,214,605	12,509,048	1,992,085	1,991,185

23.4 Maturity of long-term loans from financial institutions are as follows:

	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Within 1 year	2,565,696	1,052,162	351,632	-
Later than 1 year but not later than 5 years	16,127,236	4,507,846	1,119,030	933,149
Later than 5 years	10,521,673	6,949,040	521,423	1,058,036
Total long-term loans from financial institution net	29,214,605	12,509,048	1,992,085	1,991,185

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24 Debentures, net

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Debtenture	52,555,000	5,000,000	40,000,000	5,000,000
<u>Add</u> Fair value adjustment from business acquisition	214,115	-	-	-
<u>Less</u> Deferred financing fees	(61,635)	(5,030)	(52,180)	(5,030)
	52,707,480	4,994,970	39,947,820	4,994,970
<u>Less</u> Current portion of debtenture	-	-	-	-
Total debtenture, net	52,707,480	4,994,970	39,947,820	4,994,970

Debtentures of the Company

As at 31 December 2019, the Company had unsubordinated and unsecured debtentures of Baht 40,000 million. The Company is required to comply with the terms and conditions such as maintaining the debt to equity ratio (2018: Baht 5,000 million).

Debtentures of subsidiaries

As at 31 December 2019, subsidiaries had unsubordinated and guaranteed debtentures of Baht 12,555 million which guaranteed by three subsidiaries. The Group has to comply with certain requirements and conditions such as maintaining of tangible net worth, net debt to equity ratio and debt service coverage ratio.

The interest rate exposure on the long-term loans from financial institutions of the Group before taking account of interest rate swap contract are as follows:

	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
- At fixed rate	52,769,115	5,000,000	40,000,000	5,000,000

Effective interest rates on the date of statement of financial position are as follows:

	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Debtentures	1.97 - 5.00	2.21 - 2.82	1.97 - 5.00	2.21 - 2.82

Maturities of debtentures are as follows:

	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Within than 1 year	-	-	-	-
Later than 1 but not later than 5 years	17,759,526	4,994,970	11,976,192	4,994,970
Later than 5 years	34,947,954	-	27,971,628	-
Total debtenture, net	52,707,480	4,994,970	39,947,820	4,994,970

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The movement of the debentures can be analysed as follows:

For the year ended 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Opening net book value	4,994,970	4,993,464	4,994,970	4,993,464
<u>Cash flows</u>				
Cash received from debentures	35,000,000	-	35,000,000	-
Repayment of debentures during the year	(3,400,000)	-	-	-
Other non-cash movement:				
Increase from business acquisition (Note 14.1)	16,301,856	-	-	-
Fair value adjustment from business acquisition	(144,458)	-	-	-
Amortisation of deferred financing fee	(44,888)	1,506	(47,150)	1,506
Closing net book value	52,707,480	4,994,970	39,947,820	4,997,970

25 Other non-current liabilities

	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Finance lease liability	9,679	13,613	9,679	13,613
Contract liabilities ⁽¹⁾	14,170,980	91,212	187,014	91,212
Other	370,135	-	141,920	-
Total other non-current liabilities	14,550,794	104,825	338,613	104,825

⁽¹⁾ Advance receipts of availability payments in relation to the availabilities of a subsidiary's power plant, as agreed with EGAT and in accordance with the terms of PPA. During the year 2019, the Group utilised the contract liabilities through consolidated statement of income of Baht 1,607 million.

26 Deferred income taxes

The analysis of deferred tax assets and deferred tax liabilities are as follows:

	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Deferred tax assets:				
Deferred tax assets to be recovered within 12 months	6,098	-	-	-
Deferred tax assets to be recovered after more than 12 months	3,945,266	678,159	631,055	674,128
	3,951,364	678,159	631,055	674,128
Deferred tax liabilities:				
Deferred tax liabilities to be settled within 12 months	(221,245)	(140,172)	(130,497)	(140,172)
Deferred tax liabilities to be settled after more than 12 months	(10,986,447)	(1,029,536)	(800,168)	(930,666)
	(11,207,692)	(1,169,708)	(930,665)	(1,070,838)
Total deferred income taxes, net	(7,256,328)	(491,549)	(299,610)	(396,710)

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The movement of the deferred income tax account are as follows:

	Consolidated		Separate	
	financial statements		financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
As at 1 January	(491,549)	(507,690)	(396,710)	(408,518)
(Charged)/ credited to profit or loss	575,436	5,969	97,100	1,178
Increase from business acquisition (Note 14.1)	(7,346,758)	-	-	-
(Charged)/ credited directly to other comprehensive income	1,133	11,272	-	10,630
Exchange difference on translation	5,410	(1,100)	-	-
As at 31 December	(7,256,328)	(491,549)	(299,610)	(396,710)

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The movement of deferred tax assets and liabilities are as follows:

	Consolidated financial statements								
	Other long-term investments Baht'000	Property, plant and equipment Baht'000	Provisions for employee benefits Baht'000	Investment expenses Baht'000	Provisions Baht'000	Contract liabilities Baht'000	Finance lease receivable Baht'000	Assets under finance lease Baht'000	Total Baht'000
Deferred tax assets									
As at 1 January 2019	41,950	564,656	27,126	44,427	-	-	-	-	678,159
Increase from business acquisition	-	96,883	80,366	-	132,820	2,320,237	324,278	5,713	2,960,297
(Charged)/ credited to profit or loss	(150)	(79,535)	37,246	30,493	11,035	322,537	(9,333)	(518)	311,775
(Charged)/ credited directly to other comprehensive income	-	-	1,133	-	-	-	-	-	1,133
Exchange difference on translation	-	-	-	-	-	-	-	-	-
As at 31 December 2019	41,800	582,004	145,871	74,920	143,855	2,642,774	314,945	5,195	3,951,364
As at 1 January 2018	41,950	707,668	14,575	22,254	-	-	-	-	786,447
(Charged)/credited to profit or loss	-	(143,012)	1,279	22,173	-	-	-	-	(119,560)
(Charged)/ credited directly to other comprehensive income	-	-	11,272	-	-	-	-	-	11,272
Exchange difference on translation	-	-	-	-	-	-	-	-	-
As at 31 December 2018	41,950	564,656	27,126	44,427	-	-	-	-	678,159

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	Consolidated financial statements				
	Finance lease receivable Baht'000	Property, plant and equipment Baht'000	Fair value of business acquisition Baht'000	Deferred expenses Baht'000	Total Baht'000
Deferred tax liabilities					
As at 1 January 2019	(1,070,838)	(3,897)	(94,973)	-	(1,169,708)
Increase from business acquisition (Note 14.1)	-	(1,246,158)	(9,035,088)	(25,809)	(10,307,055)
(Charged)/ credited to profit or loss	140,172	(79,113)	239,183	(36,581)	263,661
(Charged)/ credited directly to other comprehensive income	-	-	-	-	-
Exchange difference on translation	-	-	5,410	-	5,410
As at 31 December 2019	(930,666)	(1,329,168)	(8,885,468)	(62,390)	(11,207,692)
As at 1 January 2018					
(Charged)/ credited to profit or loss	(1,191,876)	(5,107)	(97,154)	-	(1,294,137)
(Charged)/ credited directly	121,038	1,210	3,281	-	125,529
to other comprehensive income	-	-	-	-	-
Exchange difference on translation	-	-	(1,100)	-	(1,100)
As at 31 December 2018	(1,070,838)	(3,897)	(94,973)	-	(1,169,708)

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	Separate financial statements				
	Other long-term investments Baht'000	Property, plant and equipment Baht'000	Provisions for employee benefits Baht'000	Investment expenses Baht'000	Total Baht'000
Deferred tax assets					
As at 1 January 2019	41,950	564,656	23,096	44,426	674,128
(Charged)/ credited to profit or loss	(150)	(83,010)	9,593	30,494	(43,073)
(Charged)/ credited directly to other comprehensive income	-	-	-	-	-
Exchange difference on translation	-	-	-	-	-
As at 31 December 2019	41,800	481,646	32,689	74,920	631,055
As at 1 January 2018	41,950	707,668	11,486	22,254	783,358
(Charged)/ credited to profit or loss	-	(143,012)	980	22,172	(119,860)
(Charged)/ credited directly to other comprehensive income	-	-	10,630	-	10,630
Exchange difference on translation	-	-	-	-	-
As at 31 December 2018	41,950	564,656	23,096	44,426	674,128

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	Separate financial statements
	Finance lease receivable
	Baht'000
Deferred tax liabilities	
As at 1 January 2019	(1,070,838)
(Charged) / credited to profit or loss	140,173
(Charged) / credited directly to other comprehensive income	-
Exchange difference on translation	-
As at 31 December 2019	(930,665)
As at 1 January 2018	(1,191,876)
(Charged) / credited to profit or loss	121,038
(Charged) / credited directly to other comprehensive income	-
Exchange difference on translation	-
As at 31 December 2018	(1,070,838)

Deferred income tax assets are recognised for tax loss and carried forwards only to the extent that realisation of the related tax benefit through the future taxable profits is probable. The Group did not recognise deferred tax asset of Baht 48 million (2018: Baht 14 million) from losses of Baht 245 million (2018: Baht 69 million) that can be carried forward against future taxable income, losses of Baht 245 million will be expired in 2024 (2018: losses of Baht 69 million will be expired in 2023)

27 Share capital

		Consolidated and Separate financial statements			
		2019		2018	
	Par value	No. of shares Thousand share	Amount Baht'000	No. of shares Thousand share	Amount Baht'000
Authorised share capital					
As at 1 January					
- Ordinary share	10	1,498,301	14,983,008	1,498,301	14,983,008
Issue of new shares	10	1,321,429	13,214,286	-	-
As at 31 December					
- Ordinary share	10	2,819,730	28,197,294	1,498,301	14,983,008
Issued and paid-up share capital					
As at 1 January					
- Ordinary share	10	1,498,301	14,983,008	1,498,301	14,983,008
Issue of new shares	10	1,321,429	13,214,286	-	-
As at 31 December					
- Ordinary share	10	2,819,730	28,197,294	1,498,301	14,983,008

On 28 August 2019, at the Extraordinary General Meeting of Shareholders No. 1/2019, the shareholders passed a resolution approving a registered capital increase of the Company by issuing 1,321,428,571 ordinary shares, with a par value of Baht 10 per share, amounting to Baht 13,214,285,710. The registered share capital increased from Baht 14,983,008,000 to Baht 28,197,293,710. The Company fully received for such share issuing and completed share capital registration on 9 October 2019 amounting to Baht 13,214,285,670.

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28 Legal reserve

	Consolidated and Separate financial statements	
	2019	2018
	Baht'000	Baht'000
Opening book value	840,417	707,996
Appropriation during the year	639,413	132,421
Closing book value	1,479,830	840,417

Under the Public Companies Act B.E. 2535, the Company is required to set aside as a legal reserve at least 5 percent of its net profit after accumulated deficit brought forward (if any) until the reserve is not less than 10 percent of the registered capital. The legal reserve is non-distributable.

29 Expense by nature

The following expenditure items have been charged in arriving at net profit:

	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
For the years ended 31 December	Baht'000	Baht'000	Baht'000	Baht'000
Fuel cost and supplies used expense	43,326,724	16,951,506	13,423,531	12,778,092
Manufacturing overhead	1,330,572	313,767	251,845	191,380
Depreciation and amortisation expense	7,127,225	1,802,037	1,294,868	1,123,730
Employee benefit expense				
and salary for outsourcing	2,773,815	1,056,335	1,195,986	940,463
Repair and maintenance expense	1,936,015	659,640	384,896	496,477

30 Finance costs

	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
For the years ended 31 December	Baht'000	Baht'000	Baht'000	Baht'000
Interest expenses	4,256,582	503,821	2,324,674	129,872
Amortised deferred finance cost	854,189	3,934	841,130	1,941
Other finance costs	29,108	5,965	3,867	2,464
Total finance costs	5,139,879	513,720	3,169,671	134,277

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31 Income tax expense

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Current tax:				
Current tax on profits for the year	822,927	248,761	11,597	249,028
Total current tax	822,927	248,761	11,597	249,028
Deferred tax:				
(Increase) decrease in deferred tax assets (Note 26)	(311,775)	119,560	43,073	119,860
Increase (decrease) in deferred tax liabilities (Note 26)	(263,661)	(125,529)	(140,173)	(121,038)
Total deferred tax	(575,436)	(5,969)	(97,100)	(1,178)
Income tax expense	247,491	242,792	(85,503)	247,850

The tax on the Group's profit before tax differs from the theoretical amount that would arise using the basic tax rate of the home country of the parent company as follows:

For the years ended 31 December	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Profit before tax	6,248,307	4,132,005	12,702,754	2,896,273
Tax calculated at a tax rate of 20%	20%	20%	20%	20%
The result of the accounting profit multiplied by the income tax rate	1,249,661	826,401	2,540,551	579,255
Tax effect of:				
Expenses not deductible for tax purpose	54,445	97,263	24,063	95,117
Revenues that are granted income tax exemption or expenses that are deductible at a greater amount	(991,741)	(586,746)	(2,707,424)	(434,754)
Utilisation of previously unrecognised tax losses	(4,547)	-	-	-
Tax losses for the year for which no deferred income tax assets was recognised	47,984	13,711	44,559	-
Share of profit of investments accounted for using the equity method	(167,417)	(118,862)	-	-
Adjustment in respect of prior period	33,852	8,232	12,748	8,232
Difference on tax rate in which countries the Group operated	25,254	2,793	-	-
Income tax	247,491	242,792	(85,503)	247,850

The weighted average applicable tax rate for the Group and the Company were 3.96% and 0.67%, respectively (2018: 5.80% and 8.55%, respectively).

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The tax charged / (credited) relating to component of other comprehensive income are as follows:

For the years ended 31 December	Consolidated financial statements					
	2019			2018		
	Before tax Baht'000	Tax credit Baht'000	After tax Baht'000	Before tax Baht'000	Tax credit Baht'000	After tax Baht'000
Loss from remeasurement Employee benefits obligation	5,453	(1,133)	4,320	56,360	(11,272)	45,088

For the years ended 31 December	Separate financial statements					
	2019			2018		
	Before tax Baht'000	Tax credit Baht'000	After tax Baht'000	Before tax Baht'000	Tax credit Baht'000	After tax Baht'000
Loss from remeasurement Employee benefits obligation	-	-	-	53,150	(10,630)	42,520

32 Earnings per share

Basic earnings per share is calculated by dividing the net profit attributable to shareholders of the Company by the weighted average number of ordinary shares.

	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
Net profit attributable to ordinary shareholders of the Company (Baht'000)	4,060,797	3,359,187	12,788,257	2,648,423
Weighted average number of ordinary shares outstanding (thousand share)	1,802,410	1,498,300	1,802,410	1,498,300
Basic earnings per share (Baht per share)	2.25	2.24	7.10	1.77

The Group has no dilutive potential ordinary shares in issue during the periods presented. Therefore, diluted earnings per share are not presented.

33 Dividends

At the Board of Directors' Meeting of the Company on 14 August 2019, the Board of Directors approved the payment of an interim dividends for the year 2019 at Baht 0.50 per share, totalling Baht 749 million. These dividend were paid on 12 September 2019.

At the Annual General Meeting of Shareholders on 1 April 2019, the Shareholders of the Company approved the payment of an annual dividends for the year 2018 at Baht 1.25 per shares totalling Baht 1,873 million. These dividends consist of interim dividends at Baht 0.45 per shares which were paid on September 2018 and the remaining dividends at Baht 0.8 per shares, totalling Baht 1,199 million which were paid on 18 April 2019.

At the Board of Directors' Meeting of the Company on 15 August 2018, the Board of Directors approved the payment of an interim dividends for the year 2018 at Baht 0.45 per shares, totalling Baht 674 million. These dividends were paid on 10 September 2018.

At the Annual General Meeting of Shareholders on 3 April 2018, the Shareholders of the Company approved the payment of an annual dividends for the year 2017 at Baht 1.25 per share totalling Baht 1,873 million. These dividends consist of interim dividends at Baht 0.45 per shares which were paid on September 2018 and the remaining dividend at Baht 0.8 per shares, totalling Baht 1,199 million which were paid on 20 April 2018.

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34 Related party transactions

Major shareholders during the period are PTT Global Chemical Public Company Limited (holding 22.73% of shares), PTT Public Company Limited (holding 22.81% of shares), Thai Oil Power Company Limited (holding 20.78% of shares) and Thai Oil Public Company Limited (holding 8.91% of shares). All four companies are incorporated in Thailand and PTT Public Company Limited is the ultimate parent company.

The information of the Company's subsidiaries, associates and joint ventures are disclosed in Note 14.

The pricing policies for particular types of transactions are explained further below:

Transactions	Pricing policies
Sale of goods	Contract price
Rendering of service	Contract price
Purchase of goods / raw materials	Contract price based on market
Rental fee	Contract price
Services fee	Contract price
Technical fee	Contract price
Interest income / interest expense	Contract rate

The following material transactions were carried out with related parties:

34.1 Business transactions

For the periods ended 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
The ultimate parent company				
- Revenue from sales	1,800	-	-	-
- Other income	535	185	15	185
- Cost of sale	33,239,590	16,200,426	12,661,656	12,184,172
- Administrative expenses	70,494	55,446	70,411	55,377
- Interest expense	553,028	-	550,568	274,271
- Cost of property, plant and equipment and intangible assets	-	281,298	-	-
Shareholders	7,088,633	4,535,297	4,720,713	4,535,297
- Revenue from sales	11,854	4,798	8,147	4,798
- Other income	296,018	43,918	48,542	43,918
- Cost of sales	579	558	579	558
- Administrative expenses	163,131	-	163,131	-
- Interest expense	-	-	-	-
- Cost of property, plant and equipment and intangible assets	-	6,290	-	6,290
Subsidiaries				
- Interest income	-	-	11,978	14,375
- Other income	-	-	27,218	19,126
- Dividend income	-	-	13,170,021	-
- Administrative expenses	-	-	7,919	5,292
Associate				
- Dividend income	-	-	131,869	81,150
- Administrative expenses	10	-	10	-
Joint ventures				
- Interest income	6,598	6,829	6,598	6,829
- Other income	8,683	3,482	8,683	3,482
- Dividend income	-	-	524,367	490,433
- Administrative expenses	647	-	647	-

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For the periods ended 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Indirect associates				
- Revenue from sales	662	-	662	-
- Interest income	170,441	160,105	159,043	160,105
- Other income	19,849	8,435	7,521	8,435
Other related parties				
- Revenue from sales	12,324,389	8,812,937	6,800,510	6,408,062
- Interest income	4,696	13,645	4,696	13,645
- Other income	14,621	8,872	9,440	8,872
- Dividend income	185,405	135,005	177,005	135,005
- Cost of sales	1,109,298	522,891	553,122	420,715
- Administrative expenses	121,129	106,088	111,792	95,466
- Cost of property, plant and equipment and intangible assets	32,233	8,941	31,361	8,658

34.2 Trade receivables and other receivables from related parties

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Trade receivables				
- The ultimate parent company	682	-	-	-
- Shareholders	696,730	780,208	426,017	780,208
- Indirect associates	709	-	709	-
- Other related parties	1,679,255	1,814,471	823,630	1,228,937
Total trade receivables	2,377,376	2,594,679	1,250,356	2,009,145
As at 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Other receivables				
- The ultimate parent company	1,788	601	815	601
- Shareholders	4,687	4,930	4,687	4,930
- Subsidiaries	-	-	10,339	7,589
- Joint ventures	5,437	6,013	5,437	6,013
- Indirect associates	2,372	703	-	703
- Other related parties	90,914	95,664	77,661	82,688
Total other receivables	105,198	107,911	98,939	102,524

34.3 Dividend receivables from related parties

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Dividend Receivables				
- Subsidiaries	-	-	11,979,985	-
- Joint ventures	102,200	89,833	102,200	89,833
Total Dividend Receivables	102,200	89,833	12,082,185	89,833

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34.4 Trade payables, accrued expenses and other payables from related parties

	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
As at 31 December				
Trade payables and accrued expense				
- The ultimate parent company	3,456,875	1,814,437	1,331,780	1,101,895
- Shareholders	28,794	7,886	4,921	7,886
- Other related parties	173,883	26,554	32,529	23,244
Total trade payables and accrued expenses	3,659,552	1,848,877	1,369,230	1,133,025

	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
As at 31 December				
Other payables				
- The ultimate parent company	24,336	18,557	24,251	18,551
- Shareholders	11,480	5,311	10,376	5,311
- Subsidiaries	-	-	3,956	1,448
- Joint ventures	1,510	1,129	1,510	1,129
- Other related parties	584,105	399,550	269,452	225,942
Total other payables	621,431	424,547	309,545	252,381

34.5 Intangible assets

	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
As at 31 December				
Right to use of natural gas distribution pipeline				
- The ultimate parent company	514,225	536,746	-	-

34.6 Non-current assets - related parties

	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
As at 31 December				
Non-current assets - related parties				
- Shareholder	453,186	2,938	2,938	2,938
- Other related parties	6,214	4,320	6,214	4,320
	459,400	7,258	9,152	7,258

34.7 Non-current liabilities - related party

	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
As at 31 December				
Non-current liabilities - related party				
- Shareholder	9,070	12,094	9,070	12,094

34.8 Long-term loans to related parties and related interests

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Long-term loans to related parties				
- Subsidiary				
- Due within 1 year	-	-	47,760	47,760
- Due over 1 year	-	-	155,220	202,980
- Joint venture				
- Due over 1 year	86,930	100,432	86,930	100,432
- Accrued interest income	1,385	9,321	1,385	9,321
- Indirect associate				
- Due over 1 year	2,746,650	2,463,160	2,463,160	2,463,160
- Accrued interest income	546,320	387,277	546,320	387,277
- Other related parties				
- Subordinated and convertible promissory note	89,930	96,854	89,930	96,854
- Accrued interest income	8,255	3,979	8,255	3,979
	3,479,470	3,061,023	3,398,960	3,311,763

Movements of long-term loans to related parties can be analysed as follows:

For the year ended 31 December	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Opening balance	2,660,446	2,726,879	2,911,186	3,025,379
Increase from business acquisition (Note 14.1)	220,000	-	-	-
Increase during the year	63,490	93,908	-	93,908
Decrease from cash received during the year	(7,343)	-	(55,103)	(47,760)
Decrease from invest in other long term investment	-	(172,750)	-	(172,750)
Unrealised loss (gain) on exchange rate	(13,083)	12,409	(13,083)	(12,409)
Ending balance	2,923,510	2,660,446	2,843,000	2,911,186

Long-term loan agreements

Combined Heat and Power Producing Company Limited

The loan agreement with credit facility of Baht 314 million dated on 24 June 2014, due in 10 years with an interest rate per annum at MLR minus discount, payable in semi-annual installments commencing in December 2014. The purpose of this loan is for working capital. As at 31 December 2019, the utilised credit facility is amounting to Baht 203 million (At 31 December 2018: Baht 251 million).

Xayaburi Power Company Limited

Credit facility of long-term loan of Baht 2,463 million with loan agreement dated on 2 August 2016 under condition in the Sponsor Agreement between Xayaburi Power Company Limited and the Company which is one of those sponsors, due in 15 years with an interest rate per annum at MLR plus margin, payable semi-annual installments commencing in year 2021 from 5.6% to 14.0% per year of total loan as indicated in the agreement. The repayments of loan must comply with terms and condition under their loan agreement with financial institutions then the repayment can be made to the Company. The purpose of this loan is for construction of the project. As at 31 December 2019, the credit facility has been fully utilised.

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Nam Lik 1 Power Company Limited

Credit facility of long-term loan of U.S. Dollars 3 million with loan agreement dated on 21 March 2017 under condition in the Sponsor Agreement between Nam Lik 1 Power Company Limited and the Company which is one of those sponsors, due in 12 years with an interest rate per annum at LIBOR 3M plus margin, payable semi-annual installments commencing in year 2019. The repayments of loan must comply with terms and condition under their loan agreement with financial institutions then the repayment can be made to the Company. Therefore, this loan is classified as non-current asset. The purpose of this loan is for construction of the project. As at 31 December 2019, the credit facility has been fully utilized in total of US Dollars 3 million, equivalent to Baht 87 million (At 31 December 2018: US Dollars 3 million, equivalent to Baht 100 million).

24M Technologies, Inc.

As at 31 December 2019, the Company had subordinated convertible promissory note of US Dollars 3 million, equivalent to Baht 90 million. (At 31 December 2018: US Dollars 3 million, equivalent to Baht 97 million). This note shall be convertible to share capital according to the terms specified in the agreement. This note bears fixed interest rate per annum.

Chonburi Clean Energy Company Limited

As at 31 December 2019, a subsidiary had outstanding long-term loan to related party of Baht 283 million which is one of the loan agreements granted by all shareholders of this company. The total facility is Baht 895 million and due in 10 years with a purpose of development and construction of its non-hazardous industrial waste-to-energy power plant. The loans are subject to interest rate per annum at MLR minus discount and repayable in the amount and within the period as specified from time to time by lender.

34.9 Short-term loans from related parties

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Short-term loans from related parties				
- The ultimate parent company	3,790,072	-	3,790,072	-
- Shareholder	1,122,984	-	1,122,984	-
	4,913,056	-	4,913,056	-

Movements of short-term loans from related parties can be analysed as follows:

For the period ended 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Opening balance	-	-	-	-
Cashflows				
Increasing during the year	35,000,000	-	35,000,000	-
Repayment during the year	(30,086,944)	-	(30,086,944)	-
Ending balance	4,913,056	-	4,913,056	-

The Company entered into loan agreements with its ultimate parent company and one shareholder for short-term loans credit facilities not over 12 months of Baht 27,000 million and Baht 8,000 million, respectively. The loans bear interest at fixed rate per year.

34.10 Directors and managements remuneration

For the periods ended 31 December	Consolidated financial statements		Separate financial statements	
	2019	2018	2019	2018
	Baht'000	Baht'000	Baht'000	Baht'000
Short-term benefits	314,984	74,848	86,535	73,085

35 Fair value

35.1 Fair value

Financial assets and liabilities carried at fair value, are classified into levels by valuation method. The different levels have been defined as follows:

- Quoted prices (unadjusted) in active markets for identical assets or liabilities (Level 1).
- Inputs other than quoted prices included within level 1 that are observable for the asset or liability, either directly (that is, as prices) or indirectly (that is, derived from prices) (Level 2).
- Inputs for the asset or liability that are not based on observable market data (that is, unobservable inputs) (Level 3).

35.2 Financial assets and liabilities that are not measured at fair value

The carrying amounts of the following financial assets and financial liabilities approximate their fair values: cash and cash equivalents, deposits at financial institutions used as collateral, short-term investments, trade receivables and payables, amounts due from and due to related parties, other receivables and payables, and short-term loans due to the short maturities of these financial assets and financial liabilities.

(a) Long-term loans to related parties, long-term loans from financial institutions and debentures

The fair values of long-term loans to related parties, long-term loans from financial institutions and debentures with fixed interest rates have been calculated by level 2.

The contract amounts and fair values are as follows:

	2019			
	Consolidated financial statements		Separate financial statements	
	Carrying amount	Fair value	Carrying amount	Fair value
	Baht'000	Baht'000	Baht'000	Baht'000
Asset				
Long-term loans to related parties	89,930	88,249	89,930	88,249
Liabilities				
Long-term loans from financial institutions	4,414,582	4,129,741	-	-
Debenture	52,493,365	53,540,012	39,947,820	40,685,754
	2018			
	Consolidated financial statements		Separate financial statements	
	Carrying amount	Fair value	Carrying amount	Fair value
	Baht'000	Baht'000	Baht'000	Baht'000
Asset				
Long-term loans to related parties	96,854	94,514	96,854	94,514
Liabilities				
Long-term loans from financial institutions	145,388	142,911	-	-
Debenture	4,994,970	4,967,480	4,994,970	4,967,480

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The fair values have been calculated from the net present value of future cash flows discounted by market interest rates using rates at the date of financial statements. The fair values of long-term loans from financial institutions and long-term loans to related parties with floating interest rates approximate their carrying amounts.

The fair value of debentures is determined by the last bid price on the Thai Bond Market Association on the last business day of the year.

(b) Derivatives financial instruments

The fair values of the derivatives financial instruments have been calculated by level 2.

The fair values of the derivatives financial instruments at the date of financial statements are as follows:

As at 31 December 2019					
Financial instruments	Currency	Gain (Loss) on fair value of financial instruments		Fair value hierarchy	Valuation techniques and key inputs for fair value measurement
		Consolidated financial statements	Separate financial statements		
		Million	Million		
Interest rate swap agreements				Level 2	Discounted cash flow
- Baht	Baht	(565)	-		
- Yen	Yen	(131)	-		
- US Dollar	US Dollar	(22)	-		
Forward foreign exchange contracts				Level 2	Discounted cash flow
- Euro / US Dollar	Euro	(4)	-		
Cross currency interest rate swap agreement				Level 2	Discounted cash flow
- US Dollar / Baht	Baht	(479)	-		
As at 31 December 2018					
Financial instruments	Currency	Gain (Loss) on fair value of financial instruments		Fair value hierarchy	Valuation techniques and key inputs for fair value measurement
		Consolidated financial statements	Separate financial statements		
		Million	Million		
Interest rate swap agreements				Level 2	Discounted cash flow
- Yen	Yen	(72)	-		

For the discounted cash flow method, future cash flows are estimated based on relevant market price of hedged position, i.e. interest rate, foreign exchange rate, coal price, discounted at a rate that reflects the credit risk of various counterparties.

36 Financial risk management

The Group is exposed to normal business risks from changes in market interest rates and currency exchange rates and from non-performance of contractual obligations by counterparties. The Group does not hold or issue derivative for speculative or trading purposes.

Risk management is integral to the whole business of the Group. The Group has a system of controls in place to create an acceptable balance between the cost of risks occurring and the cost of managing the risks. The management continually monitors the Group's risk management process to ensure that an appropriate balance between risk and control is achieved.

Capital management

The Board of Directors' policy is to maintain a strong capital base so as to maintain confidence of investor, creditor and market confidence and to sustain future development of the business. The Board monitors the return on capital, which the Group defines as result from operating activities divided by total shareholders' equity, excluding non-controlling interests and also monitors the level of dividends payment to ordinary shareholders.

Interest rate risk

Interest rate risk is the risk that future movements in market interest rates will affect the results of the Group's operations and its cash flows. The Group is primarily exposed to interest rate risk from loan to related parties and loan from financial institutions as at 31 December 2019 and 2018 as disclosed in Note 23 and Note 34, respectively.

Foreign currency risk

The Group is exposed to foreign currency risk relating to financial assets and liabilities which are denominated in foreign currencies. The Group primarily utilises foreign currency forward contracts to hedge some short-term foreign currency risk when appropriate.

At 31 December, the Group exposed to foreign currency risk in respect of financial assets and liabilities denominated in the following currencies:

	Consolidated financial statements			
	2019		2018	
	Foreign currency Million	Baht Million	Foreign currency Million	Baht Million
Assets				
US Dollar	42	1,254	7	213
Euro	4	119	14	523
Yen	1,172	323	1,239	363
		1,696		1,099
Liabilities				
US Dollar	350	10,623	1	10
Euro	5	185	3	102
Yen	710	197	7,182	2,106
		11,005		2,218

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	Separate financial statements			
	2019		2018	
	Foreign currency Million	Baht Million	Foreign currency Million	Baht Million
Assets				
US Dollar	6	187	7	211
Euro	4	119	14	523
		306		734
Liabilities				
US Dollar	3	92	1	10
Euro	4	121	3	102
Yen	281	79	-	-
		292		112

Credit risk

The Group has no significant concentrations of credit risk relating to its cash and investments. The Group places its cash and investments with high quality financial institutions. The Group's policy is designed to limit exposure with any one institution and to invest its excess cash in low risk investment accounts. The Group has not experienced any losses on such accounts. For trade receivables, the Group's sales are made to state-owned enterprises and industrial users under the terms and conditions of the long-term Power Purchase Agreements and the long-term Electricity and Steam Sales and Purchase Agreements.

Liquidity risk

Prudent liquidity risk management implies maintaining sufficient cash and marketable securities, the availability of funding through an adequate amount of credit facilities and the ability to close out market positions. Due to the dynamic nature of the underlying business, Group Treasury aims at maintaining flexibility in funding by keeping credit lines available.

Risk of Commodity Price

Commodity swap agreements

Commodity swap agreements manage exposure to fluctuations in coal price. A subsidiary entered into such agreement to hedge the coal price from Global Coal Newcastle Index to certain price stipulated in the agreements as follows:

Contract date	Coal (metric tonnes)	Effective date	Settlement date
23 August 2019	21,000	1 October 2019 - 31 December 2019	14 January 2020
4 September 2019	11,202	1 October 2019 - 31 December 2019	14 January 2020
16 September 2019	11,202	1 October 2019 - 31 December 2019	14 January 2020
31 October 2019	21,000	1 November 2019 - 31 January 2020	14 February 2020
11 November 2019	22,401	1 November 2019 - 31 January 2020	14 February 2020
11 November 2019	21,702	1 December 2019 - 29 February 2020	16 March 2020
4 December 2019	21,000	1 December 2019 - 29 February 2020	16 March 2020

As at 31 December 2019, the above commodity swap agreements made with the financial institutions are guaranteed by the Subsidiary.

37 Commitments and significant agreements

37.1 Commitments

37.1.1 Capital expenditure obligations

As at 31 December 2019, the Group had commitments under design, construction and installation of machinery and equipment and project construction contract of Baht 5,421 million (31 December 2018: Baht 1,546 million).

37.1.2 Operating lease commitments

The Group and the Company have non-cancellable operating leases contracts as follows:

As at 31 December	Consolidated financial statements		Separate financial statements	
	2019 Baht'000	2018 Baht'000	2019 Baht'000	2018 Baht'000
Payment within				
Less than 1 year	226,654	51,122	77,439	49,330
More than 1 to 5 years	563,698	132,040	165,945	124,715
More than 5 years	824,410	176,520	186,104	140,828
Total	1,614,762	359,682	429,488	314,873

37.1.3 Letter of guarantee

As at 31 December 2019 and 2018, there were outstanding letters of guarantee issued by financial institutions on behalf of the Group in respect of certain performance as required in the normal course of business of the Group as follows:

Company	Currency	2019 Million	2018 Million
Global Power Synergy Public Company Limited	Baht	177	152
IRPC Clean Power Company Limited	Baht	462	462
Combined Heat and Power Producing Company Limited	Baht	13	10
Glow Energy Public Company Limited	Baht	232	-
Glow SPP 2 Company Limited	Baht	286	-
Glow SPP 3 Company Limited	Baht	535	-
Glow SPP 11 Company Limited	Baht	426	-
Glow IPP Company Limited	Baht	11	-
GHECO-One Company Limited ⁽¹⁾	Baht	39	-
Houay Ho Power Company Limited ⁽²⁾	US Dollar	3	-

⁽¹⁾ The bank guarantee of GHECO-One Company Limited is guaranteed by a subsidiary not exceeding 65 percent of the amount.

⁽²⁾ On 2 February 2015, a subsidiary has issued the letter of guarantee with amounts not exceeding an aggregate of US Dollar 3 million to a bank in order to guarantee the Houay Ho Power Company Limited's liability to EGAT under the Power Purchase Agreement.

37.1.4 Letter of credit

As at 31 December 2019, the Group had outstanding letters of credit issued by financial institutions on behalf of GHECO-One Company Limited in respect of purchase of coal totalling US Dollar 16 million.

37.2 Significant agreements

37.2.1 Significant Power Purchase Agreements

The Company and seven subsidiaries entered into Power Purchase Agreements (PPAs) with the Electricity Generating Authority of Thailand (EGAT) totalling 13 agreements. The PPAs are effective for the periods of 21 years, 25 years and 30 years commencing from the commercial operation date. The sales quantity and its price must be complied with the agreement. During 2017, a subsidiary entered into an Amendment to the two PPAs to revise the pricing structure and extend the term of the PPA for another three years after the maturity date.

37.2.2 Gas supply agreements

The Company and five subsidiaries entered into Gas Supply Agreements (GSAs) with PTT Public Company Limited (PTT) totalling 11 agreements. The agreements are effective for a period between 4 years and 25 years. The sales quantity and its price must be complied with the agreements. Four of these agreements can be extended for another 4 years, commencing from the maturity date with conditions stipulated in agreements.

37.2.3 Coal supply agreements

Two subsidiaries entered into coal supply agreements with both domestic and overseas companies totalling 6 agreements to purchase coal. The sales quantity and its price must be complied with the agreements.

37.2.4 Coal berth joint operation agreement

A subsidiary entered into a joint operation agreement with the Industrial Estate Authority of Thailand (IEAT) to develop an area to construct a shipping berth at Map Ta Phut Industrial Estate for use in handling of coal, other raw materials and necessary goods. A subsidiary has the right to utilise this area for a period of 30 years, while such subsidiary has to pay the specified benefits to IEAT. In addition, the ownership of the dedicated berth was already transferred to IEAT after 15 year from the commencing date.

37.2.5 Operation and management services agreements

A subsidiary entered into the Operation and Management Services Agreements with two overseas companies to use its facilities for the period between 1 July 2016 and 31 December 2021. The fee must be received as complied with the agreements.

37.2.6 Long term parts and repair agreements

The Company and five subsidiaries entered into Long-term Parts and Repair Agreements with domestic and overseas companies to provide certain parts and maintenance services on power plant machine and equipment. The scope of work performed and condition and its price must be complied with the agreements.

37.2.7 Maintenance agreement

A subsidiary entered into a Maintenance Service 230 kV Substation Agreement (MSA) with EGAT. In accordance with the MSA, EGAT commits to perform the Preventive Maintenance services, including Corrective Maintenance or on call services of 230 kV substation and transmission line for the period of 6 years. The scope of work performed and condition and its price must be complied with the agreement.

37.2.8 Royalty agreement

In consideration for the grant and issuance to a subsidiary of all rights, leases, permits and other benefits under the Build Operate and Transfer Agreement (BOT), this subsidiary shall pay to the Government of Lao PDR on a quarterly basis, within 90 days of the end of quarter. The royalty shall be paid in Thai Baht, US Dollar and Kip at the rate of 3.15 percent during the first seven years of commercial operation and 7.2 percent thereafter, of revenue from sales under its power purchase agreements

37.2.9 Essential agreements under the Energy Recovery Unit Project

On 10 May 2019, a subsidiary entered into agreements relating to the Energy Recovery Unit (ERU), which is a part of the Clean Fuel Project (CFP) of Thai Oil Public Company Limited (TOP). The agreements are detailed below.

a) Asset sale and purchase agreement (Energy Recovery Unit: ERU)

A subsidiary entered into asset sale and purchase agreement for the ownership transferring in the ERU Project from TOP for the amounts not exceed US Dollar 757 Million. A subsidiary makes payments according to Project milestones, and the ownership will be transferred upon the Project construction and issuing of the Provisional Acceptance Certificate (PAC) under the CFP which expected to be within 2023.

b) Products sales agreement

A subsidiary entered into sales agreement for electricity, steam and other product under ERU Project with TOP. The agreement term is 25 years from the Project ownership transferring date.

c) Fuel and utilities supply agreement

A subsidiary entered into fuel and utilities supply agreement with TOP for purchase pitch, other fuels, and various utilities that are necessary to operate the ERU Project. The agreement term is 25 years from the Project ownership transferring date. The contract renewal period must be complied with the agreement.

d) Operation and maintenance service agreement

A subsidiary entered into operation and maintenance service agreement to engage TOP for provide operation and maintenance service for all ERU Project units. The agreement term is 25 years from the Project ownership transferring date. The contract renewal period must be complied with the agreement

38 Promotional privileges

The Group has been granted privileges by the Board of Investment relating to production of electricity, steam, water, chilled water, refuse derived fuel and Li-ion battery. The privileges granted include exemption from payment of income tax for certain operations for a period of four years or eight years from the date on which the income is first derived from such operations. As promoted companies, the Group must be complied with certain terms and conditions prescribed in the promotional certificates

39 Events after the reporting date

39.1 Establishment of GPSC Treasury Center Company Limited

On 31 January 2020, the Company established GPSC Treasury Center Company Limited which incorporated in Thailand with total registered share capital of Baht 20 million. The Company owns 100% shareholding interests in this subsidiary. The principal business operation is to provide the financial services for the Group.