

B.GRIMM POWER PUBLIC COMPANY LIMITED

CONSOLIDATED AND SEPARATE FINANCIAL STATEMENTS

31 DECEMBER 2020

Independent Auditor's Report

To the Shareholders and the Board of Directors of B.Grimm Power Public Company Limited

My opinion

In my opinion, the consolidated financial statements and the separate financial statements present fairly, in all material respects, the consolidated financial position of B.Grimm Power Public Company Limited (the Company) and its subsidiaries (the Group) and the separate financial position of the Company as at 31 December 2020, 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 (TFRS).

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 2020;
- 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 ended; and
- the notes to the consolidated and separate financial statements, which include significant accounting policies and other explanatory information.

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 in accordance with the Code of Ethics for Professional Accountants issued by the Federation of Accounting Professions 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 judgement, 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 matters	How my audit addressed the key audit matter
<p>Acquisition of Angthong Power Co., Ltd.</p> <p>Referring to Note 8 'Critical accounting estimates and judgements', Note 17 'Investments in subsidiaries' and Note 41 'Business combination'.</p> <p>On 17 March 2020, the Group acquired 70% of equity interest in Angthong Power Co., Ltd. (ATP) for a consideration amounting to Baht 2,520 million. The investment is considered as a business combination under TFRS 3 - Business Combinations.</p> <p>The management engaged independent valuers to prepare a purchase price allocation and to evaluate the fair value of net assets acquired.</p> <p>I focused on this matter because significant amounts of right in power purchase agreements as well as goodwill were recognised upon the purchase price allocation exercise which involved management's judgement on the inputs and assumptions in the valuation model as well as the discount rates applied.</p>	<p>I performed the following procedures in auditing this matter.</p> <ul style="list-style-type: none">• Assessed management's consideration of accounting for the acquisition as a business combination under TFRS 3.• Assessed the appropriateness of the identification of assets acquired and liabilities assumed at the acquisition date, and evaluated the valuers' competency, independence and objectivity.• Engaged an auditor's expert to review the appropriateness and reasonableness of the fair valuation method, the estimation of the discount rates and discount factors, and the model's logic and calculations, comparing with market practice in a comparable industry.• Evaluated the reasonableness of key assumptions used to assess the fair value of net assets acquired by comparing to the relative contracts, ATP's historical data, market data in a comparable industry and ATP's business plan.• Tested the calculation of the goodwill arising from the acquisition, being the difference between the total purchase consideration and the fair value of the net identifiable assets.• Evaluated the appropriateness of the accounting treatment and the adequacy of the disclosures made in notes to the financial statements. <p>From the above procedures, I noted that the purchase price allocation was made in accordance with TFRS3. In addition, management's key assumptions used in assessing the fair value of the net assets acquired were reasonable based on the available evidence.</p>

Key audit matters	How my audit addressed the key audit matter
<p><i>Hedge accounting for cross currency interest rate swap contracts</i></p> <p>Referring to Note 6 'Financial risk management'.</p> <p>The Group is exposed to foreign currency exchange risk arising from USD-linked revenue, and uses cross currency interest rate swap contracts to manage and hedge this risk. Under TFRS 9 - Financial Instruments, the contracts are designated as hedge derivative, qualified as cash flow hedges.</p> <p>The cross currency interest rate swap contracts are measured at fair value, based on valuation models using observable input data. As at 31 December 2020, the Group has recognised derivative assets of Baht 432.46 million and derivative liabilities of Baht 3,453.65 million from the fair value of these contracts. The hedge effective portion of changes in fair value of derivatives is recognised in equity.</p> <p>I focused on this matter because the identification of hedged items and hedging instruments, as well as the assessment of hedge effectiveness, involved management's judgement and estimation. In addition, the changes in fair value of derivatives and the related accounting treatment have significant impact on the consolidated financial statements.</p>	<p>I performed the following procedures in auditing this matter.</p> <p>Obtained an understanding of the Group's risk management strategy and accounting policies for hedging activities on foreign currency exchange risk.</p> <p>Evaluated the appropriateness of identifying hedging instruments to match with hedged items.</p> <p>Obtained confirmations from contract counterparties and reconciled to the Group's information to verify existence, completeness and accuracy of derivatives.</p> <p>Reperformed the fair value measurement of derivatives on a sample basis, using an alternative, independent valuation model.</p> <p>On a sample basis, examined the appropriateness of the hedge documentations and evaluated the management's assessment of hedge effectiveness. These were to determine whether the accounting for derivatives following the requirements of hedge accounting under TFRS 9.</p> <p>Assessed the adequacy of the disclosures about derivatives and hedge accounting in accordance with the requirements of TFRS 7 - Financial Instruments: Disclosures and TFRS 13 - Fair Value Measurement.</p> <p>From the above procedures, I noted that the accounting treatment was in accordance with the relevant financial reporting standards and the evaluation of the derivatives in relation to hedge accounting for cross currency interest rate swap contracts were reasonable based on the available evidences.</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. The annual report is expected to be made available to me after the date of this auditor's report.

My opinion on the consolidated and separate financial statements does not cover the other information and I will 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 identified above when it becomes available and, in doing so, consider whether the other information is materially inconsistent with the consolidated and separate financial statements or my knowledge obtained in the audit, or otherwise appears to be materially misstated.

When I read the annual report, if I conclude that there is a material misstatement therein, I am required to communicate the matter to the audit committee.

Responsibilities of the directors for the consolidated and separate financial statements

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

In preparing the consolidated and separate financial statements, the directors are responsible for assessing the Group'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 the directors either intend to liquidate the Group 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'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 judgement 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's and the Company's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the directors.
- Conclude on the appropriateness of the directors' use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's 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 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 the 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.

Kajornkiet Aroonpirodkul
 Certified Public Accountant (Thailand) No. 3445
 Bangkok
 25 February 2021

B.Grimm Power Public Company Limited
Statements of Financial Position
As at 31 December 2020

	Notes	Consolidated		Separate	
		financial statements		financial statements	
		2020	2019	2020	2019
		Baht	Baht	Baht	Baht
Assets					
Current assets					
Cash and cash equivalents	10	19,110,324,827	21,161,169,988	2,205,278,800	8,705,264,927
Restricted deposits within one year	11	396,950,590	391,875,891	-	-
Fixed bank deposits					
with maturity over 3 months		882,186,106	2,109,780,072	300,000,000	1,012,823
Trade and other receivables, net	12	6,818,112,029	7,156,109,075	3,692,173,857	2,676,064,142
Short-term loans to third parties	14	562,544,732	498,562,194	104,535,900	128,899,810
Short-term loans to related parties	42.5	168,551,705	218,273,000	8,679,067,296	871,676,430
Current portion of long-term loan					
to third party		70,132,459	68,421,912	70,132,459	68,421,912
Current portion of long-term loans					
to related parties	42.6	-	-	453,570,234	453,570,234
Spare parts and supplies, net	15	1,032,958,084	968,653,824	-	-
Derivative assets	6.1	14,340,364	-	-	-
Other current assets	16	822,758,169	920,262,710	103,211,690	44,727,970
Total current assets		29,878,859,065	33,493,108,666	15,607,970,236	12,949,638,248
Non-current assets					
Restricted deposits over than one year	11	124,112,579	129,079,800	-	-
Long-term loan to third party		20,867,541	136,578,088	20,867,541	136,578,088
Long-term loans to related parties	42.6	-	-	26,235,758,461	18,596,978,875
Investments in subsidiaries	17	-	-	9,597,688,941	9,553,811,946
Investment in associate	18 (a)	564,928,519	816,248,943	-	-
Investments in joint ventures	18 (b)	500,328,076	714,294,314	533,070,232	522,375,832
Investment property	19	4,902,251	4,902,251	-	-
Property, plant and equipment, net	20	80,300,238,167	72,131,623,379	648,568,962	674,292,851
Right-of-use assets, net	21	1,175,768,076	-	118,529,861	-
Goodwill	22	1,169,902,531	457,191,626	-	-
Intangible assets, net	23	11,779,173,890	10,450,902,123	541,343,321	566,646,593
Deposits for land	43.4 (d), (g), (h)	545,462,805	891,773,065	-	-
Derivative assets	6.1	418,118,213	-	-	-
Deferred tax assets	24	252,575,076	134,486,663	9,138,279	6,427,200
Other non-current assets	25	3,960,642,752	2,332,615,768	805,885,465	27,062,007
Total non-current assets		100,817,020,476	88,199,696,020	38,510,851,063	30,084,173,392
Total assets		130,695,879,541	121,692,804,686	54,118,821,299	43,033,811,640

Director _____

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

B.Grimm Power Public Company Limited
Statements of Financial Position (Cont'd)
As at 31 December 2020

	Notes	Consolidated financial statements		Separate financial statements	
		2020	2019	2020	2019
		Baht	Baht	Baht	Baht
Liabilities and equity					
Current liabilities					
Short-term borrowing from					
financial institutions	27	15,040,160,004	3,000,000,000	9,134,862,014	3,000,000,000
Trade and other payables	26	5,641,053,202	18,253,751,781	392,325,361	296,427,797
Short-term borrowing from third party		39,605,258	36,019,991	39,605,258	36,019,991
Current portion of long-term borrowings					
from financial institutions, net	27	1,336,452,601	832,972,368	-	-
Current portion of debentures, net	28	3,697,280,530	2,697,952,858	2,699,053,763	499,726,091
Current portion of long-term borrowings					
from related party	42.7	671,500,000	608,500,000	-	-
Current portion of lease liabilities		85,676,604	-	11,446,767	-
Derivative liabilities	6.1	14,255,347	-	-	-
Accrued income tax		133,994,984	80,400,966	-	-
Other current liabilities		333,173,618	322,147,610	33,601,439	11,171,791
Total current liabilities		26,993,152,148	25,831,745,574	12,310,894,602	3,843,345,670
Non-current liabilities					
Long-term borrowings from					
financial institutions, net	27	29,138,437,796	24,017,678,747	3,000,000,000	-
Debentures, net	28	28,117,574,744	29,801,948,550	13,436,159,811	14,122,306,847
Long-term borrowings from related party	42.7	1,104,500,000	1,776,000,000	-	-
Lease liabilities		861,838,428	-	100,386,690	-
Derivative liabilities	6.1	3,439,393,066	-	-	-
Deferred tax liabilities	24	381,774,761	203,213,858	-	-
Provision for minimum payments under					
rights to sell electricity agreements		291,759,526	301,326,346	235,642,229	243,425,054
Provision for decommissioning costs		347,550,475	315,320,599	-	-
Employee benefit obligations	29	451,947,481	404,717,703	45,691,395	32,136,002
Other non-current liabilities		263,868,888	363,592,429	-	-
Total non-current liabilities		64,398,645,165	57,183,798,232	16,817,880,125	14,397,867,903
Total liabilities		91,391,797,313	83,015,543,806	29,128,774,727	18,241,213,573

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

B.Grimm Power Public Company Limited
Statements of Financial Position (Cont'd)
As at 31 December 2020

	Notes	Consolidated		Separate	
		financial statements		financial statements	
		2020	2019	2020	2019
		Baht	Baht	Baht	Baht
Liabilities and equity (Cont'd)					
Equity					
Share capital	30				
Authorised share capital					
2,700,000,000 ordinary shares					
at par value of Baht 2 each		5,400,000,000	5,400,000,000	5,400,000,000	5,400,000,000
Issued and paid-up share capital					
2,606,900,000 ordinary shares, fully-paid		5,213,800,000	5,213,800,000	5,213,800,000	5,213,800,000
Share premium on ordinary shares	30	9,644,039,948	9,644,039,948	9,644,039,948	9,644,039,948
Subordinated perpetual bond	31	7,951,674,002	7,951,674,002	7,951,674,002	7,951,674,002
Reserved shares for employee benefits					
under share-based payments scheme	40	-	(160,190,400)	-	(77,100,800)
Other reserve - share-based payments	40	5,122,900	123,004,576	2,406,000	60,067,338
Retained earnings					
Appropriated - legal reserve	32	411,704,957	334,426,502	411,704,957	334,426,502
Unappropriated		6,656,743,452	5,993,593,631	1,766,421,665	1,665,691,077
Other components of equity		(2,412,816,291)	(955,948,935)	-	-
Equity attributable to owners of the parent		27,470,268,968	28,144,399,324	24,990,046,572	24,792,598,067
Non-controlling interests		11,833,813,260	10,532,861,556	-	-
Total equity		39,304,082,228	38,677,260,880	24,990,046,572	24,792,598,067
Total liabilities and equity		130,695,879,541	121,692,804,686	54,118,821,299	43,033,811,640

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

B.Grimm Power Public Company Limited
Statements of Comprehensive Income
For the year ended 31 December 2020

	Notes	Consolidated financial statements		Separate financial statements	
		2020 Baht	2019 Baht	2020 Baht	2019 Baht
Sales and services income	33	43,974,377,335	43,771,052,541	532,292,653	378,471,784
Construction revenue under concession agreements		112,476,883	360,836,111	-	-
Total revenue from sales and services		44,086,854,218	44,131,888,652	532,292,653	378,471,784
Cost of sales and services		(34,752,539,525)	(35,636,806,766)	(376,968,404)	(193,366,922)
Construction cost under concession agreements		(95,735,249)	(316,244,812)	-	-
Total costs of sales and services		(34,848,274,774)	(35,953,051,578)	(376,968,404)	(193,366,922)
Gross profit		9,238,579,444	8,178,837,074	155,324,249	185,104,862
Other income	34	250,811,984	289,497,221	2,832,960,201	1,719,190,277
Administrative expenses		(2,038,842,963)	(1,864,864,448)	(542,601,984)	(383,753,134)
Gain (loss) on exchange rate		(333,950,292)	137,569,227	(214,917,560)	(44,494,290)
Finance costs	36	(3,186,435,085)	(2,630,169,000)	(687,906,882)	(636,933,601)
Share of profit from associate and joint ventures	18 (a), (b)	58,342,077	101,330,264	-	-
Profit before income tax		3,988,505,165	4,212,200,338	1,542,858,024	839,114,114
Income tax	37	(233,029,355)	(235,171,397)	2,711,079	910,840
Profit for the year		3,755,475,810	3,977,028,941	1,545,569,103	840,024,954
Other comprehensive income (expense):					
Items that will not be reclassified subsequently to profit or loss					
Remeasurements of retirement benefit obligations, net of tax		-	(74,941,477)	-	(7,067,447)
Items that will be reclassified subsequently to profit or loss					
Changes in fair value of hedging derivatives, net of tax		(1,310,932,080)	-	-	-
Reclassify hedging reserve to profit or loss, net of tax		649,845,194	-	-	-
Share of other comprehensive expenses from joint ventures	18 (b)	(12,843,672)	-	-	-
Currency translation difference		(1,951,281)	(528,260,598)	-	-
Total comprehensive income for the year		3,079,593,971	3,373,826,866	1,545,569,103	832,957,507
Profit attributable to:					
Owners of the parent		2,174,758,666	2,331,152,758	1,545,569,103	840,024,954
Non-controlling interests		1,580,717,144	1,645,876,183	-	-
		3,755,475,810	3,977,028,941	1,545,569,103	840,024,954
Total comprehensive income attributable to:					
Owners of the parent		1,749,473,564	1,771,596,810	1,545,569,103	832,957,507
Non-controlling interests		1,330,120,407	1,602,230,056	-	-
		3,079,593,971	3,373,826,866	1,545,569,103	832,957,507
Earnings per share (Baht)					
Basic earnings per share	38	0.68	0.88	0.44	0.31

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

B.Grimm Power Public Company Limited
Statement of Changes in Equity
For the year ended 31 December 2020

	Consolidated financial statements											Baht		
	Attributable to owners of the parent											Total owners of the parent	Non-controlling interests	Total equity
	Notes	Issued and paid-up share capital	Share premium on ordinary shares	Subordinated perpetual bond	Reserved shares for employee benefits under share-based payments scheme	Other reserve - share-based payments	Retained earnings		Other components of equity					
							- legal reserve	Unappropriated	Translation of financial statements	Other comprehensive expense	Changes in parent's ownership interests in subsidiaries	Total other components of equity		
Opening balance at 1 January 2019	5,213,800,000	9,644,039,948	-	(163,782,400)	80,333,127	292,425,254	4,588,738,092	(327,826,413)	(74,269,737)	(402,096,150)	19,253,457,871	8,485,665,739	27,739,123,610	
Changes in equity for the year 2019														
Reserved shares for employee benefits under share-based payments scheme		-	-	-	3,592,000	-	-	-	-	-	3,592,000	-	3,592,000	
Share-based payments	40	-	-	-	-	42,671,449	-	-	-	-	42,671,449	-	42,671,449	
Issuance of subordinated perpetual bond	31	-	-	7,951,674,002	-	-	-	-	-	-	7,951,674,002	-	7,951,674,002	
Acquisition of subsidiaries		-	-	-	-	-	-	-	-	-	-	505,741	505,741	
Additional paid-up share capital of subsidiaries		-	-	-	-	-	-	-	-	-	-	116,376,191	116,376,191	
Legal reserve appropriation	32	-	-	-	-	42,001,248	(42,001,248)	-	-	-	-	-	-	
Changes in parent's ownership interests in subsidiaries	41	-	-	-	-	-	-	-	(44,384,808)	(44,384,808)	(44,384,808)	869,384,808	825,000,000	
Dividends	39	-	-	-	-	-	(834,208,000)	-	-	-	(834,208,000)	-	(834,208,000)	
Dividends of subsidiaries		-	-	-	-	-	-	-	-	-	-	(541,300,979)	(541,300,979)	
Total comprehensive income (expense) for the year		-	-	-	-	-	2,281,064,787	(509,467,977)	-	(509,467,977)	1,771,596,810	1,602,230,056	3,373,826,866	
Closing balance at 31 December 2019	<u>5,213,800,000</u>	<u>9,644,039,948</u>	<u>7,951,674,002</u>	<u>(160,190,400)</u>	<u>123,004,576</u>	<u>334,426,502</u>	<u>5,993,593,631</u>	<u>(837,294,390)</u>	<u>(118,654,545)</u>	<u>(955,948,935)</u>	<u>28,144,399,324</u>	<u>10,532,861,556</u>	<u>38,677,260,880</u>	

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

B.Grimm Power Public Company Limited
Statement of Changes in Equity (Cont'd)
For the year ended 31 December 2020

Consolidated financial statements															Baht	
Attributable to owners of the parent																
Notes	Issued and paid-up share capital	Share premium on ordinary shares	Subordinated perpetual bond	Reserved shares for employee benefits under share-based payments scheme	Other reserve - share-based payments	Retained earnings		Other comprehensive expense			Changes in parent's ownership interests in subsidiaries		Total other components of equity	Total owners of the parent	Non-controlling interests	Total equity
						Appropriated	Unappropriated	Translation of financial statements	Hedging reserves	Share of other comprehensive expense from joint ventures						
						- legal reserve										
Opening balance at 1 January 2020																
- previously reported																
	5,213,800,000	9,644,039,948	7,951,674,002	(160,190,400)	123,004,576	334,426,502	5,993,593,631	(837,294,390)	-	-	(118,654,545)	(955,948,935)	28,144,399,324	10,532,861,556	38,677,260,880	
4	-	-	-	-	-	-	(68,681,499)	-	(1,012,122,695)	(39,438,551)	-	(1,051,561,246)	(1,120,242,745)	(794,204,859)	(1,914,447,604)	
Opening balance at 1 January 2020																
- restated																
	5,213,800,000	9,644,039,948	7,951,674,002	(160,190,400)	123,004,576	334,426,502	5,924,912,132	(837,294,390)	(1,012,122,695)	(39,438,551)	(118,654,545)	(2,007,510,181)	27,024,156,579	9,738,656,697	36,762,813,276	
Changes in equity for the year 2020																
Reserved shares for employee benefits under share-based payment scheme																
	-	-	-	3,384,000	-	-	-	-	-	-	-	-	-	3,384,000	-	3,384,000
40	-	-	-	-	38,924,724	-	-	-	-	-	-	-	-	38,924,724	-	38,924,724
Completion of share-based payment service conditions																
40	-	-	-	156,806,400	(156,806,400)	-	-	-	-	-	-	-	-	-	-	-
Acquisition of subsidiaries																
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	774,552,469	774,552,469
Additional paid-up share capital of subsidiaries																
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	288,123,264	288,123,264
32	-	-	-	-	-	77,278,455	(77,278,455)	-	-	-	-	-	-	-	-	-
Changes in parent's ownership interests in subsidiaries																
41	-	-	-	-	-	-	-	-	-	-	19,978,992	19,978,992	19,978,992	180,021,008	200,000,000	
Interest paid on subordinated perpetual bond																
	-	-	-	-	-	-	(401,095,891)	-	-	-	-	-	(401,095,891)	-	(401,095,891)	
39	-	-	-	-	-	-	(964,553,000)	-	-	-	-	-	(964,553,000)	-	(964,553,000)	
Dividends of subsidiaries																
	-	-	-	-	-	-	-	-	-	-	-	-	-	(477,660,585)	(477,660,585)	
Total comprehensive income (expense) for the year																
	-	-	-	-	-	-	2,174,758,666	(2,743,400)	(409,698,030)	(12,843,672)	-	(425,285,102)	1,749,473,564	1,330,120,407	3,079,593,971	
Closing balance at 31 December 2020																
	5,213,800,000	9,644,039,948	7,951,674,002	-	5,122,900	411,704,957	6,656,743,452	(840,037,790)	(1,421,820,725)	(52,282,223)	(98,675,553)	(2,412,816,291)	27,470,268,968	11,833,813,260	39,304,082,228	

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

B.Grimm Power Public Company Limited
Statement of Changes in Equity (Cont'd)
For the year ended 31 December 2020

	Separate financial statements							Baht	
	Notes	Issued and paid-up share capital	Share premium on ordinary shares	Subordinated perpetual bond	Reserved shares for employee benefits under share-based payments scheme	Other reserve - share-based payments	Retained earnings		Total equity
							Appropriated - legal reserve	Unappropriated	
Opening balance at 1 January 2019		5,213,800,000	9,644,039,948	-	(79,616,000)	41,276,450	292,425,254	1,708,942,818	16,820,868,470
Changes in equity for the year 2019									
Reserved shares for employee benefits under share-based payment scheme		-	-	-	2,515,200	-	-	-	2,515,200
Share-based payments	40	-	-	-	-	18,790,888	-	-	18,790,888
Issuance of subordinated perpetual bond	31	-	-	7,951,674,002	-	-	-	-	7,951,674,002
Legal reserve appropriation	32	-	-	-	-	-	42,001,248	(42,001,248)	-
Dividends	39	-	-	-	-	-	-	(834,208,000)	(834,208,000)
Total comprehensive income for the year		-	-	-	-	-	-	832,957,507	832,957,507
Closing balance at 31 December 2019		<u>5,213,800,000</u>	<u>9,644,039,948</u>	<u>7,951,674,002</u>	<u>(77,100,800)</u>	<u>60,067,338</u>	<u>334,426,502</u>	<u>1,665,691,077</u>	<u>24,792,598,067</u>
Opening balance at 1 January 2020									
- previously reported		5,213,800,000	9,644,039,948	7,951,674,002	(77,100,800)	60,067,338	334,426,502	1,665,691,077	24,792,598,067
Impact of first-time adoption of new financial reporting standards	4	-	-	-	-	-	-	(1,911,169)	(1,911,169)
Opening balance at 1 January 2020 - restated		<u>5,213,800,000</u>	<u>9,644,039,948</u>	<u>7,951,674,002</u>	<u>(77,100,800)</u>	<u>60,067,338</u>	<u>334,426,502</u>	<u>1,663,779,908</u>	<u>24,790,686,898</u>
Changes in equity for the year 2020									
Reserved shares for employee benefits under share-based payment scheme		-	-	-	108,800	-	-	-	108,800
Share-based payments	40	-	-	-	-	19,330,662	-	-	19,330,662
Completion of share-based payment service conditions	40	-	-	-	76,992,000	(76,992,000)	-	-	-
Interest paid on subordinated perpetual bond		-	-	-	-	-	-	(401,095,891)	(401,095,891)
Legal reserve appropriation	32	-	-	-	-	-	77,278,455	(77,278,455)	-
Dividends	39	-	-	-	-	-	-	(964,553,000)	(964,553,000)
Total comprehensive income for the year		-	-	-	-	-	-	1,545,569,103	1,545,569,103
Closing balance at 31 December 2020		<u>5,213,800,000</u>	<u>9,644,039,948</u>	<u>7,951,674,002</u>	<u>-</u>	<u>2,406,000</u>	<u>411,704,957</u>	<u>1,766,421,665</u>	<u>24,990,046,572</u>

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

B.Grimm Power Public Company Limited
Statements of Cash Flows
For the year ended 31 December 2020

	Notes	Consolidated		Separate	
		financial statements		financial statements	
		2020	2019	2020	2019
		Baht	Baht	Baht	Baht
Cash flows from operating activities					
Profit before income tax		3,988,505,165	4,212,200,338	1,542,858,024	839,114,114
Adjustments for :					
- Depreciation and amortisation	35	5,494,097,027	4,659,940,259	102,928,524	82,149,623
- Amortisation of deferred financing fees	36	41,649,454	41,035,267	15,695,136	16,049,827
- Write-off withholding tax deducted at sources		20,941,220	23,426,147	7,436,808	7,653,994
- Allowance for impairment loss of financial assets		26,304,897	-	26,304,897	-
- Fair value adjustment on derivatives		(46,455,333)	-	-	-
- Allowance for slow moving spare parts and supplies		57,960,430	69,127,853	-	-
- Gain on disposal and write-off of plant and equipment and intangible assets		(1,258,504)	(6,284,179)	(526,842)	-
- Interest income	34	(192,100,125)	(184,401,609)	(975,342,190)	(767,304,304)
- Interest expense		3,229,594,552	3,145,143,715	673,820,151	623,232,816
- Employee benefit expense	29	56,235,417	87,462,039	13,599,570	4,606,203
- Share-based payments for employees		27,947,744	26,871,007	3,808,035	3,808,035
- Unrealised loss (gain) on exchange rate		242,078,440	(730,344,738)	214,855,644	30,910,772
- Dividends income	34	-	-	(1,706,686,991)	(950,676,374)
- Share of profit from associate and joint ventures	18 (a), (b)	(58,342,077)	(101,330,264)	-	-
- Construction revenue under concession agreements		(112,476,883)	(360,836,111)	-	-
Changes in working capital :					
- Trade and other receivables		1,133,517,337	(468,837,158)	(494,095,618)	(406,651,572)
- Spare parts and supplies		(34,108,951)	(52,014,752)	-	-
- Other current assets		26,495,832	708,722,153	(50,948,946)	5,511,150
- Other non-current assets		(890,330,771)	(421,535,389)	(786,260,265)	(13,964,474)
- Trade and other payables		(6,109,780,170)	(419,120,786)	23,804,043	(2,568,790)
- Other current liabilities		27,573,231	(296,603,094)	22,429,648	(1,354,443)
- Provision for minimum payments under right to sell electricity agreements		(19,716,231)	(19,855,218)	(15,818,788)	(15,930,300)
- Employee benefits obligations	29	(12,938,963)	(11,597,363)	(44,177)	(52,003)
- Other non-current liabilities		(9,371,444)	(57,311,495)	-	-
Cash generated from (used in) operating activities		6,886,021,294	9,843,856,622	(1,382,183,337)	(545,465,726)
- Interest received		185,544,642	149,145,094	198,821,681	169,221,330
- Withholding tax received		2,855,592	2,271,450	-	-
- Income tax paid		(294,117,626)	(295,222,433)	(7,534,775)	(11,631,347)
Net cash generated from (used in) operating activities		6,780,303,902	9,700,050,733	(1,190,896,431)	(387,875,743)

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

B.Grimm Power Public Company Limited
Statements of Cash Flows (Cont'd)
For the year ended 31 December 2020

	Notes	Consolidated financial statements		Separate financial statements	
		2020 Baht	2019 Baht	2020 Baht	2019 Baht
Cash flows from investing activities					
Decrease (increase) in restricted deposits		(107,478)	234,078,316	-	-
Decrease (increase) in fixed deposits with maturity over 3 months		1,227,593,966	(25,371,662)	(298,987,177)	(1,012,823)
Repayments received from short-term loans to related parties	42.5	73,188,000	1,911,040,000	268,761,919	2,748,200,000
Payments for short-term loans to related parties	42.5	(23,466,705)	(2,111,073,000)	(8,273,211,163)	(8,159,993,414)
Repayments received from long-term loans to related parties	42.6	-	-	363,570,234	1,519,485,117
Payments for long-term loans to related parties	42.6	-	-	(8,018,583,296)	(998,382,697)
Repayments received from long-term loans to third party		114,000,000	67,000,000	114,000,000	67,000,000
Payments for short-term loan to third party		(88,252,200)	(491,239,055)	-	(111,356,150)
Payments for acquisition of subsidiaries considered as assets acquisition, net of cash acquired		-	(8,992,662)	-	-
Payments for additional of investment in subsidiaries	17	-	-	(23,310,000)	(11,394,833)
Proceeds from capital reduction of associate	18 (a)	234,789,799	299,236,964	-	-
Payments for acquisition of investment in joint ventures	18 (b)	(10,694,400)	(13,368,000)	(10,694,400)	(13,368,000)
Payment for business combination, net of cash acquired	41	(1,699,879,684)	(2,827,842,800)	-	-
Payments for purchases of property, plant and equipment		(15,205,867,272)	(3,152,852,943)	(27,585,816)	(337,805,595)
Payments for interest capitalised in property, plant and equipment		(74,158,556)	-	-	-
Payments for purchase of intangible assets		(167,579,619)	(395,254,913)	(14,267,497)	(36,084,984)
Proceeds from disposals of property, plant and equipment and intangible assets		7,324,290	18,401,428	3,357,267	-
Payments for land deposits		(63,743,105)	(247,679,335)	-	-
Dividends received		247,251,119	87,140,336	2,020,689,361	1,213,032,147
Payment for projects development		(1,209,241,581)	(244,979,814)	-	-
Net cash used in investing activities		(16,638,843,426)	(6,901,757,140)	(13,896,260,568)	(4,121,681,232)
Cash flows from financing activities					
Proceeds from issuance of subordinated perpetual bond	31	-	8,000,000,000	-	8,000,000,000
Payment for issuance costs of subordinated perpetual bond	31	-	(48,325,998)	-	(48,325,998)
Proceeds from additional paid-up capital of subsidiaries		247,500,000	84,085,545	-	-
Proceed from disposal of interest in subsidiary without losing control	41	200,000,000	825,000,000	-	-
Proceeds from short-term borrowings from financial institutions		15,209,452,453	3,241,000,000	9,140,139,184	3,000,000,000
Repayments to short-term borrowings from financial institutions		(3,000,000,000)	(241,000,000)	(3,000,000,000)	-
Proceeds from long-term borrowings from financial institutions	27	3,163,342,580	1,004,305,409	3,000,000,000	-
Repayments to long-term borrowings from financial institutions	27	(1,098,945,633)	(829,494,671)	-	-
Proceeds from issuance of debentures	28	2,000,000,000	-	2,000,000,000	-
Payments for redemption of debentures	28	(2,699,990,000)	(299,892,000)	(500,000,000)	-
Payments for deferred financing fees		(74,281,014)	(12,558,306)	(2,514,500)	(4,051,269)
Repayment to short-term borrowing from a related party		-	(5,079,017)	-	-
Repayments to long-term borrowings from a related party	42.7	(608,500,000)	(1,173,500,000)	-	-
Payments for lease liabilities		(260,058,850)	-	(22,204,313)	-
Dividends paid to owners of parent		(964,553,000)	(834,208,000)	(964,553,000)	(834,208,000)
Dividends paid to non-controlling interests		(725,456,349)	(720,123,843)	-	-
Payments for interest of subordinated perpetual bond		(401,095,891)	-	(401,095,891)	-
Payments for interest		(3,225,594,748)	(3,080,266,602)	(661,594,313)	(614,449,131)
Net cash generated from financing activities		7,761,819,548	5,909,942,517	8,588,177,167	9,498,965,602

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

B.Grimm Power Public Company Limited
Statements of Cash Flows (Cont'd)
For the year ended 31 December 2020

	Consolidated		Separate	
	financial statements		financial statements	
	2020	2019	2020	2019
Notes	Baht	Baht	Baht	Baht
Net increase (decrease) in cash and cash equivalents	(2,096,719,976)	8,708,236,110	(6,498,979,832)	4,989,408,627
Cash and cash equivalents at beginning of the year	21,161,169,988	12,559,726,178	8,705,264,927	3,736,128,251
Effect of exchange differences on cash and cash equivalents	45,874,815	(106,792,300)	(1,006,295)	(20,271,951)
Cash and cash equivalents at end of the year	19,110,324,827	21,161,169,988	2,205,278,800	8,705,264,927

Supplementary information :

Significant non-cash items :

Payables arising from purchases of property, plant
and equipment and intangible assets outstanding
at the end of the period

6,869,102,581 13,580,836,862 5,895,969 6,614,234

Acquisition of right-of-use assets 21 487,101,550 - 116,982,260 -

Provision for decommissioning cost 32,229,876 9,746,282 - -

Transfer other receivables to short-term loans
to third parties - 25,800,000 - 25,800,000

Payable arising from investing in subsidiaries 17 95,151,420 95,543,595 - -

Transfer spare parts and supplies to plant and equipment - 60,707,641 - -

Intangible assets from consession agreement 112,476,883 360,836,111 - -

Accrued dividends income 12 - - 126,999,736 441,002,106

Capital contribution under employee benefits
scheme of subsidiaries - - 20,566,995 19,779,505

Transfer other receivables to intangible assets - 58,282,965 - -

Transfer deposits for land to land 346,310,260 - - -

Transfer loan to related party to advance for
projects development 41,032,860 364,076,400 - -

Other non-current assets

- Transfer other non-current assets to land 30,270,600 - - -

- Transfer advance for projects development to land 75,422,062 - - -

- Transfer advance for projects development to
plant and equipment 87,000,000 160,923,368 - -

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

B.Grimm Power Public Company Limited
Notes to the Consolidated and Separate Financial Statements
For the year ended 31 December 2020

1 General information

B.Grimm Power Public Company Limited (“the Company”) is a public limited company which listed on the Stock Exchange of Thailand. The Company is incorporated and domiciled in Thailand. The address of the Company’s registered office is as follows:

5, Krungthepkreetha Road, Huamark, Bangkok, Bangkok 10240 Thailand.

The principal business operations of the Company and its subsidiaries (together “the Group”) are the generating and distribution of electricity for the government sectors and Industrial Users, both in Thailand and overseas.

These consolidated and separate financial statements were authorised for issue by the Board of Directors on 25 February 2021.

2 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 accounting policies below.

The preparation of financial statements in conformity with TFRS requires management to use certain critical accounting estimates and to exercise its judgement in applying the Group’s accounting policies. The areas involving a higher degree of judgement or complexity, or areas that are more likely to be materially adjusted due to changes in estimates and assumptions are disclosed in Note 8.

An English version of the consolidated and separate financial statements have 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.

3 New and amended financial reporting standards that are relevant to the Group

3.1 New and amended financial reporting standards that are effective for accounting period beginning on or after 1 January 2020

a) Financial instruments

The new financial standards related to financial instruments are as follows:

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

The new financial reporting standards related to financial instruments introduce new classification and measurement requirements for financial instruments as well as provide derecognition guidance on financial assets and financial liabilities. The new guidance also provides an option for the Group to apply hedge accounting to reduce accounting mismatch between hedged item and hedging instrument. In addition, the new rule provides detailed guidance on financial instruments issued by the Group whether it is a liability or an equity. Among other things, they require extensive disclosure on financial instruments and related risks.

The new classification requirements of financial assets require the Group to assess both i) business model for holding the financial assets; and ii) cash flow characteristics of the asset whether the contractual cash flows represent solely payments of principal and interest (SPPI). The classification affects the financial assets’ measurement. The new guidance requires assessment of impairment of financial assets as well as contract assets and recognition of expected credit loss from initial recognition.

b) TFRS 16, Leases

Where the Group is a lessee, TFRS 16, Leases will result in almost all leases being recognised on the balance sheet 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.

On 1 January 2020, the Group has adopted the financial reporting standards related to financial instruments and new lease standard in its financial statements. The impact from the first-time adoption has been disclosed in Note 4.

3.2 New and amended financial reporting standards that are effective for accounting period beginning or after 1 January 2021

Certain amended financial reporting standards have been issued that are not mandatory for current reporting period and have not been early adopted by the Group. These standards are not expected to have a material impact on the Group.

a) Revised Conceptual Framework for Financial Reporting added the following key principals and guidance:

- Measurement basis, including factors in considering difference measurement basis
- Presentation and disclosure, including classification of income and expenses in other comprehensive income
- Definition of a reporting entity, and
- Derecognition of assets and liabilities

The amendment also includes the revision to the definition of an asset and liability in the financial statements, and clarification to the prominence of stewardship in the objective of financial reporting.

b) Amendment to TFRS 3, Business combinations amended the definition of a business which requires an acquisition to include an input and a substantive process that together significantly contribute to the ability to create outputs. The definition of the term 'outputs' is amended to focus on goods and services provided to customers and to exclude returns in the form of lower costs and other economic benefits.

c) Amendment to TFRS 9, Financial instruments and TFRS 7, Financial instruments: disclosures amended to provide relief from applying specific hedge accounting requirements to the uncertainty arising from interest rate benchmark reform such as IBOR. The amendment also requires disclosure of hedging relationships directly affected by the uncertainty.

d) Amendment to TAS 1, Presentation of financial statements and TAS 8, Accounting policies, changes in accounting estimates and errors amended to definition of materiality. The amendment allows for a consistent definition of materiality throughout the Thai Financial Reporting Standards and the Conceptual Framework for Financial Reporting. It also clarified when information is material and incorporates some of the guidance in TAS 1 about immaterial information.

e) Amendment to TFRS 16, Leases amended to provide a practical expedient where lessees are exempted from having to consider individual lease contracts to determine whether rent concessions occurring as a direct consequence of the COVID-19 pandemic are lease modifications. It applies to rent concessions that reduce lease payments due from 1 June 2020 to 30 June 2021. The amendment is effective for the annual accounting period beginning on or after 1 June 2020 where early application is permitted.

3.3 New and amended financial reporting standards that are effective for accounting period beginning or after 1 January 2022

Certain amended financial reporting standards have been issued that are not mandatory for current reporting period and have not been early adopted by the Group. These standards are not expected to have a material impact on the Group.

a) Amendment to TFRS 16, Leases amended to include a practical expedient for leases that are modified as a direct consequence of IBOR reform (e.g. replacement of THBFX as a benchmark interest rate due to the cancellation of LIBOR) for lessee to remeasure the lease liability by discounting the revised lease payments using a discount rate that reflects the change in the interest rate. An early application of the amendment is permitted.

B.Grimm Power Public Company Limited
Notes to the Consolidated and Separate Financial Statements
For the year ended 31 December 2020

4 Impacts from initial application of the new and revised financial reporting standards

This note explains the impact of the adoption of TAS 32 Financial Instruments: Presentation, TFRS 7 Financial Instruments: Disclosure, TFRS 9 Financial Instruments and TFRS 16 Leases on the Group's consolidated financial statements and the Company's separate financial statements. The new accounting policies applied were disclosed in Note 5.

The Group and the Company have adopted those accounting policies by applying the modified retrospective approach. The comparative figures have not been restated. The reclassifications and the adjustments arising from the changes in accounting policies were therefore recognised in the statement of financial position as of 1 January 2020.

The impact of first-time adoption of new financial reporting standards on the consolidated and separate statements of financial position are as follows:

	Notes	Consolidated financial statements			
		31 December 2019 Baht '000	TFRS 9 and TAS 32 Baht '000	TFRS 16 Baht '000	1 January 2020 Baht '000
Statement of financial position					
Current assets					
Derivative assets	B	-	24,206	-	24,206
Non-current assets					
Investment in joint ventures	B	714,294	(39,438)	-	674,856
Right-of-use assets, net	C	-	-	767,805	767,805
Derivative assets	B	-	700,779	-	700,779
Deferred tax assets	B	134,487	81,880	-	216,367
Total assets affected		848,781	767,427	767,805	2,384,013
Current liabilities					
Trade and other payables	B	18,253,752	5,839	-	18,259,591
Current portion of lease liabilities	C	-	-	46,151	46,151
Derivative liabilities	B	-	17,526	-	17,526
Non-current liabilities					
Lease liabilities	C	-	-	750,740	750,740
Derivative liabilities	B	-	2,545,428	-	2,545,428
Deferred tax liabilities	B	203,214	83,995	-	287,209
Total liabilities affected		18,456,966	2,652,788	796,891	21,906,645
Equity					
Retained earnings - unappropriated	B, C	5,993,594	(45,525)	(23,157)	5,924,912
Other components of equity	A, B	(955,949)	(1,051,561)	-	(2,007,510)
Equity attributable to owners of the parent affected		5,037,645	(1,097,086)	(23,157)	3,917,402
Non-controlling interests	A, B, C	10,532,861	(788,275)	(5,929)	9,738,657
Total equity affected		15,570,506	(1,885,361)	(29,086)	13,656,059

B.Grimm Power Public Company Limited
Notes to the Consolidated and Separate Financial Statements
For the year ended 31 December 2020

	Note	Separate financial statements		
		31 December 2019 Baht '000	TFRS 16 Baht '000	1 January 2020 Baht '000
Statement of financial position				
Non-current assets				
Right-of-use assets, net	C	-	15,144	15,144
Total assets affected		<u>-</u>	<u>15,144</u>	<u>15,144</u>
Current liabilities				
Current portion of lease liabilities	C	-	5,961	5,961
Non-current liabilities				
Lease liabilities	C	-	11,094	11,094
Total liabilities affected		<u>-</u>	<u>17,055</u>	<u>17,055</u>
Equity				
Retained earnings - unappropriated	C	1,665,691	(1,911)	1,663,780
Total equity affected		<u>1,665,691</u>	<u>(1,911)</u>	<u>1,663,780</u>

Note:

- A) Adoption of hedge accounting (Note 4.1)
B) Impacts from changes in classification and measurement of financial assets and financial liabilities (Note 4.1)
C) Recognition of right-of-use assets and lease liabilities under TFRS 16 (Note 4.2)

4.1 Financial instruments

The total impact on the Group's unappropriated retained earnings as of 1 January 2020 are as follows:

	Note	Consolidated financial statements Baht '000
Unappropriated retained earnings as of 31 December 2019 (as previously reported)		5,993,594
Recognised fair value on derivatives	a	(46,800)
Recognised deferred tax assets / deferred tax liabilities related to the above adjustments		<u>1,275</u>
Total adjustments to opening unappropriated retained earnings from adoption of TFRS 9		<u>(45,525)</u>
Unappropriated retained earnings as of 1 January 2020 after reflecting TFRS 9 adoption (before impact from TFRS 16)		<u>5,948,069</u>

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The impact of these changes on the Group's equity as of 1 January 2020 are as follows:

	Note	Consolidated financial statements - Equity		
		Hedging reserves Baht '000	Share of other comprehensive expense from joint ventures Baht '000	Retained earnings Baht '000
Balance as of 31 December 2019 (as previously reported)		-	-	5,993,594
Recognised fair value on derivatives	a	(1,012,123)	(39,438)	-
Total adjustments to opening retained earnings from adoption of TFRS 9 (from the table above)		-	-	(45,525)
Total impact		(1,012,123)	(39,438)	(45,525)
Opening balance as of 1 January 2020 - TFRS 9 adoption		(1,012,123)	(39,438)	5,948,069

There is no impact to the Company's unappropriated retained earnings and total equity as of 1 January 2020.

(a) Derivatives and hedging activities

Before 1 January 2020 the Group did not recognise derivatives as assets or liabilities in the financial statements. The derivative contracts and related fair values were disclosed in the note.

On 1 January 2020, the Group recognised fair value of derivatives as derivative assets and liabilities of Baht 725 million and Baht 2,563 million, respectively.

The Group applies hedge accounting for the first time. The foreign currency forwards, cross currency interest rate swaps and certain interest rate swaps qualified as cash flow hedges; as a result, the Group recognised fair value of derivatives with the corresponding adjustments to other component of equity. The Group recognised fair value of derivatives which are not qualified for hedge accounting to retained earnings.

The Group recognises adjustments of the fair value of the derivatives in hedging reserve and retained earnings as follows.

	Consolidated financial statements	
	Hedging reserve Baht '000	Retained earnings Baht '000
As of 1 January 2020		
Current assets		
Cross currency interest rate swaps - cash flow hedges	24,206	-
Total derivative assets - current	24,206	-
Non-current assets		
Cross currency interest rate swaps - cash flow hedges	700,779	-
Total derivative assets - non-current	700,779	-
Current liabilities		
Interest rate swaps - recognised change in fair value through profit or loss	-	17,526
Total derivative liabilities - current	-	17,526
Non-current liabilities		
Interest rate swaps - recognised change in fair value through profit or loss	-	38,496
Interest rate swaps - cash flow hedges	2,506,932	-
Total derivative liabilities - non-current	2,506,932	38,496

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(b) Reclassifications of financial instruments on adoption of TFRS 9

On 1 January 2020, the date of initial application, financial assets and financial liabilities that have been changed in the measurement categories from previously reported were as follows.

	Consolidated financial statements				
	Measurement categories		Carrying amounts		
	Previously reported (TAS 105 and other TAS)	New (TFRS 9)	Previously reported Baht '000	New Baht '000	Difference Baht '000
Current financial assets					
Derivative assets	Unrecognised	FVOCI	-	24,206	24,206
Non-current financial assets					
Derivative assets	Unrecognised	FVOCI	-	700,779	700,779
Current financial liabilities					
Derivative liabilities	Unrecognised	FVPL	-	17,526	17,526
Non-current financial liabilities					
Derivative liabilities	Unrecognised	FVPL	-	38,496	38,496
Derivative liabilities - cash flow hedges	Unrecognised	FVOCI	-	2,506,932	2,506,932

(c) Impairment of financial assets

The Group and the Company have following financial assets that are subject to the expected credit loss model:

- cash and cash equivalents
- fixed bank deposits with maturity over 3 months (debt investments carried at amortised cost)
- trade and other receivables
- contract assets
- loans to related parties; and
- loans to third parties.

The Group was required to revise its impairment methodology under TFRS 9. At 1 January 2020, impact of loss from impairment of financial assets were identified as immaterial.

4.2 Leases

On adoption of TFRS 16, the Group recognised lease liabilities in relation to leases which had previously been classified as 'operating leases' under the principles of TAS 17 Leases for leases of properties, equipment and vehicles with lease terms more than 12 months. These liabilities were measured at the present value of the remaining lease payments, discounted using the lessee's incremental borrowing rate as of 1 January 2020. The weighted average lessee's incremental borrowing rate applied to the lease liabilities on 1 January 2020 was from 2.50% to 7.75%.

The associated right-of-use assets for property leases were measured on a retrospective basis as if the new rules had always been applied in which the incremental borrowing rate for the whole lease term is applied at 1 January 2020. There were no onerous lease contracts that would have required an adjustment to the right-of-use assets at the date of initial application.

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The reconciliations between operating lease commitments disclosed in the prior year financial statements and lease liabilities recognised at the beginning of current year financial statements are as follows:

	Consolidated financial statement Baht '000	Separate financial statement Baht '000
Operating lease commitments disclosed as at 31 December 2019	1,229,428	19,341
Less: Discounted using the lessee's incremental borrowing rate of at the date of initial application	(735,252)	(1,131)
Less: Short-term leases recognised on a straight-line basis as expense	(10,585)	(1,962)
Less: Low-value leases recognised on a straight-line basis as expense	(4,981)	(128)
Less: Contracts reassessed as service agreements / service portion included in leases	(928)	-
Add: Adjustments as a result of a different treatment of extension and termination options	295,561	935
Add: Adjustments relating to changes in the index or rate affecting variable payments	23,648	-
Lease liabilities recognised as at 1 January 2020	796,891	17,055
Current lease liabilities	46,151	5,961
Non-current lease liabilities	750,740	11,094
	796,891	17,055

The recognised right-of-use assets relate to the following types of assets:

	Consolidated financial information		Separate financial information	
	31 December 2020 Baht '000	1 January 2020 Baht '000	31 December 2020 Baht '000	1 January 2020 Baht '000
Properties	1,049,409	655,389	108,486	-
Equipment	60,294	59,386	-	-
Motor vehicles	66,065	53,030	10,044	15,144
Total right-of-use assets, net	1,175,768	767,805	118,530	15,144

Practical expedients applied

In applying TFRS 16 for the first time, the group has used the following practical expedients permitted by the standard with the leases existing before 1 January 2020:

- the use of a single discount rate to a portfolio of leases with reasonably similar characteristics
- reliance on previous assessments on whether leases are onerous
- the accounting for operating leases with a remaining lease term of less than 12 months as at 1 January 2020 as short-term leases
- low-value assets leases
- the exclusion of initial direct costs for the measurement of the right-of-use asset at the date of initial application
- the use of hindsight in determining the lease term where the contract contains options to extend or terminate the lease, and
- elect not to reassess whether a contract is, or contains a lease as defined under TFRS 16 at the date of initial application but relied on its assessment made applying TAS 17 and TFRIC 4 Determining whether an arrangement contains a Lease.

5 Accounting policies

5.1 Principles of consolidation

a) Subsidiaries

Subsidiaries are all 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 consolidated from the date on which control is transferred to the Group until the date that control ceases.

In the separate financial statements, investments in subsidiaries are accounted for using cost method. Directly attributable cost to the acquisition of investment is recognised as part of investment cost.

b) 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.

In the separate financial statements, investments in associates are accounted for using cost method.

c) Joint arrangements

Investments in joint arrangements are classified as either joint operations or joint ventures depending on the contractual rights and obligations of each investor, rather than the legal structure of the joint arrangements.

Joint ventures

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.

In the separate financial statements, investments in joint ventures are accounted for using cost method.

d) Equity method

The investment is initially recognised at cost which is consideration paid and directly attributable costs.

The Group's subsequently recognises shares of its associates and joint ventures' profits or losses and other comprehensive income in the profit or loss and other comprehensive income, respectively. The subsequent cumulative 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 associates and joint ventures, the Group does not recognise further losses, unless it has incurred obligations or made payments on behalf of the associates and joint ventures.

e) Changes in ownership interests

The Group treats transactions with non-controlling interests that do not result in a loss of control as transactions with equity owners of the Group. A difference between the amount of the adjustment to non-controlling interests to reflect their relative interest in the subsidiary and any consideration paid or received is recognised within equity.

If the ownership interest in associates and joint ventures is reduced but significant influence and 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 associates and joint ventures is recognise in profit or loss.

When the Group losses control, joint control or significant influence over investments, any retained interest in the investment is remeasured to its fair value, with the change in carrying amount recognised in profit or loss. The fair value becomes the initial carrying amount of the retained interest which is reclassified to investment in an associate, or a joint venture or a financial asset accordingly.

f) Intercompany transactions on consolidation

Intra-group transactions, balances and unrealised gains on transactions are eliminated. 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 in the same manner unless the transaction provides evidence of an impairment of the asset transferred.

5.2 Business combination

The Group applies the acquisition method to account for business combinations with an exception on business combination under common control. The consideration transferred for the acquisition of a subsidiary comprises.

- fair value of the assets transferred
- liabilities incurred to the former owners of the acquiree
- equity interests issued by the Group

Identifiable assets and liabilities acquired 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 initially recognises any non-controlling interest in the acquiree either at fair value or at the non-controlling interest's proportionate share of the acquiree's net assets.

The excess of the consideration transferred, the amount of any non-controlling interest recognised and the acquisition-date fair value of any previous equity interest in the acquiree (for business combination achieved in stages) over the fair value of the identifiable net assets acquired is recorded as goodwill. In the case of a bargain purchase, the difference is recognised directly in profit or loss.

Acquisition-related cost

Acquisition-related cost are recognised as expenses in consolidated financial statements.

Step-up acquisition

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.

Changes in fair value of contingent consideration paid/received

Subsequent changes to the fair value of the contingent consideration that is an asset or liability is recognised in profit or loss. Contingent consideration that is classified as equity is not re-measured.

5.3 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 consolidated financial statements are presented in Thai Baht, which is the Company's functional and the Group's presentation currency.

(b) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions. 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.

Any exchange component of gains and losses on a non-monetary item that recognised in profit or loss, or other comprehensive income is recognised following the recognition of a gain or loss on the non-monetary item.

(c) Group companies

The results and financial position of all the Group 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 comprehensive income are translated at average exchange rates; and
- All resulting exchange differences are recognised in other comprehensive income.

Goodwill and fair value adjustments arising on the acquisition of a foreign operation are treated as assets and liabilities of the foreign operation and translated at the closing rate.

5.4 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.

5.5 Trade accounts receivable

Trade receivables are amounts due from customers for goods sold or service performed in the ordinary course of business.

Trade receivables are recognised initially at the amount of consideration that is unconditional, unless they contain significant financing components, they are recognised at fair value. The Group holds the trade receivables with the objective to collect the contractual cash flows and therefore measures them subsequently at amortised cost.

The impairment of trade receivables are disclosed in Note 5.7 (f).

5.6 Spare parts and supplies

5.6.1 Fuel

Fuel represents natural gas. Costs are calculated based on the moving average basis.

5.6.2 Spare parts and supplies

Spare parts and supplies, which have useful life less than one year, are stated at the lower of cost or net realisable value. Costs are calculated based on the moving average basis. The cost of purchase comprises both the purchase price and costs directly attributable to the acquisition of the spare parts and supplies less all attributable discounts. Allowance is made, where necessary, for slow-moving spare parts and supplies.

5.7 Financial asset

a) Classification

From 1 January 2020, the Group classifies its debt instrument financial assets in the following measurement categories depending on i) business model for managing the asset and ii) the cash flow characteristics of the asset whether they represent solely payments of principal and interest (SPPI).

- those to be measured subsequently at fair value (either through other comprehensive income or through profit or loss); and
- those to be measured at amortised cost.

The Group reclassifies debt investments when and only when its business model for managing those assets changes.

For investments in equity instruments, the Group has an irrevocable election at the time of initial recognition to account for the equity investment at fair value through profit or loss (FVPL) or at fair value through other comprehensive income (FVOCI) except those that are held for trading, they are measured at FVPL.

b) Recognition and derecognition

Regular way purchases, acquires and sales of financial assets are recognised on trade-date, the date on which the Group commits to purchase or sell the asset. Financial assets are derecognised when the rights to receive cash flows from the financial assets have expired or have been transferred and the Group has transferred substantially all the risks and rewards of ownership.

c) Measurement

At initial recognition, the Group measures a financial asset at its fair value plus, in the case of a financial asset not at FVPL, transaction costs that are directly attributable to the acquisition of the financial asset. Transaction costs of financial assets carried at FVPL are expensed in profit or loss.

Financial assets with embedded derivatives are considered in their entirety when determining whether the cash flows are SPPI.

d) Debt instruments

Subsequent measurement of debt instruments depends on the Group's business model for managing the asset and the cash flow characteristics of the financial assets. There are three measurement categories into which the Group classifies its debt instruments:

- Amortised cost: Financial assets that are held for collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortised cost. Interest income from these financial assets is included in other income using the effective interest rate method. Any gain or loss arising on derecognition is recognised directly in profit or loss and presented in other gains/(losses) together with foreign exchange gains and losses. Impairment losses are presented as administrative expenses in the statement of profit or loss.
- FVOCI: Financial assets that are held for i) collection of contractual cash flows; and ii) for selling the financial assets, where the assets' cash flows represent solely payments of principal and interest, are measured at FVOCI. Movements in the carrying amount are taken through other comprehensive income (OCI), except for the recognition of impairment gains or losses, interest income using the effective interest method, and foreign exchange gains and losses which are recognised in profit or loss. When the financial assets is derecognised, the cumulative gain or loss previously recognised in OCI is reclassified from equity to profit or loss and recognised in other gains/(losses). Interest income is included in other income. Impairment expenses, if material, are presented separately in the statement of comprehensive income.
- FVPL: Financial assets that do not meet the criteria for amortised cost or FVOCI are measured at FVPL. A gain or loss on a debt investment that is subsequently measured at FVPL is recognised in profit or loss and presented net within other gains/(losses) in the period in which it arises.

e) Equity instruments

The Group measures all equity investments at fair value. Where the Group has elected to present fair value gains and losses on equity instruments in OCI, there is no subsequent reclassification of fair value gains and losses to profit or loss following the derecognition of the investment. Dividends from such investments continue to be recognised in profit or loss as other income when the right to receive payments is established.

Changes in the fair value of financial assets at FVPL are recognised in other gains/(losses) in the statement of comprehensive income.

Impairment losses (and reversal of impairment losses) on equity investments are reported together with changes in fair value.

The Group presents its investments in Infrastructure Fund units (the fund) established and registered in Thailand as equity investments following the TFAC's clarification, "Interpretation of investments in Property Fund unit trusts, Real Estate Investment Trust units, Infrastructure Fund units, and Infrastructure Trust units established and registered in Thailand" dated 25 June 2020. The fund is required to distribute benefits of not less than 90% of its adjusted net profit. Investment in Infrastructure Fund on which the Group has significant influence has been classified as investment in associate.

f) **Impairment**

From 1 January 2020, the Group applies the TFRS 9 simplified approach in measuring the impairment of trade receivables and contract assets, which applies lifetime expected credit loss, from initial recognition, for all trade receivables.

To measure the expected credit losses, trade receivables and contract assets have been grouped based on shared credit risk characteristics and the days past due. The contract assets relate to unbilled work in progress and have substantially the same risk characteristics as the trade receivables for the same types of contracts. The Group has therefore concluded that the expected loss rates for trade receivables are a reasonable approximation of the loss rates for the contract assets. The expected credit loss rates are based on payment profiles, historical credit losses as well as forward-looking information and factors that may affect the ability of the customers to settle the outstanding balances.

The expected loss rates are based on the payment profiles of sales over a period of 12 months and 36 months before 31 December 2020 for domestic and overseas entities respectively and the corresponding historical credit losses experienced within this period. The historical loss rates are adjusted to reflect current and forward-looking information on macroeconomic factors affecting the ability of the customers to settle the receivables. The Group has identified the GDP of the countries in which it sells its goods and services to be the most relevant factors, and accordingly adjusts the historical loss rates based on expected changes in these factors.

The Group and the Company write-off trade receivables and contract assets when there is no reasonable expectation of recovery.

Impairment losses on trade receivables and contract assets are presented as net impairment losses within operating profit. Subsequent recoveries of amounts previously written off are credited against the same line item.

Previous accounting policy for impairment of trade receivables for comparative period

In the year 2019, the Group recognised impairment of trade receivables based on the incurred loss model such as uncollectible or past due, which was not taken into account future losses. Therefore, loss allowance and allowance for doubtful accounts are not comparable.

For other financial assets carried at amortised cost and FVOCI, the Group applies TFRS 9 general approach in measuring the impairment of those financial assets. Under the general approach, the 12-month or the lifetime expected credit loss is applied depending on whether there has been a significant increase in credit risk since the initial recognition.

The significant increase in credit risk (from initial recognition) assessment is performed every end of reporting period by comparing i) expected risk of default as of the reporting date and ii) estimated risk of default on the date of initial recognition.

The Group assesses expected credit loss by taking into consideration forward-looking information and past experiences. The expected credit loss is a probability-weighted estimate of credit losses (probability-weighted present value of estimated cash shortfall). The cash shortfall is the difference between all contractual cash flows that are due to the Group and all cash flows expected to receive, discounted at the original effective interest rate.

When measuring expected credit losses, the Group reflects the following:

- probability-weighted estimated uncollectible amounts
- time value of money; and
- supportable and reasonable information as of the reporting date about past experience, current conditions and forecasts of future situations.

Impairment (and reversal of impairment) losses are recognised in profit or loss and included in administrative expenses.

Classification and measurement of financial assets for the year ended 31 December 2019 is disclosed in Note 4.1 b).

5.8 Investment property

Unoccupied land held by the Group is classified as investment property.

Investment property is measured initially at cost, including directly attributable costs and borrowing costs.

Land is not depreciated.

Subsequent expenditure is capitalised to the asset's carrying amount only when it is probable that future economic benefits associated with the expenditure will flow to the Group and the cost of the item can be measured reliably.

5.9 Property, plant and equipment

All other property, plant and equipment are stated at historical cost less accumulated depreciation and impairment losses. Historical cost includes expenditure that is directly attributable to the acquisition of the items.

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.

Spare parts categorised as "specific spare parts" are used for specific equipment of the power plant, and "common spare parts" are used for general use. Spare parts that have useful lives of more than one year are classified as property, plant and equipment and are depreciated using the straight-line method over the estimated useful lives once they are in the manner as intended by the management.

Land is not depreciated. Depreciation on other assets is calculated using the straight-line method to allocate their cost to their residual values over their estimated useful lives, as follows:

Land improvement	5 - 25 years
Power plant, substation, transmission system and equipment	5 - 30 years
Office equipment, furniture and computer	3 - 15 years
Building and structure	5 - 26 years
Motor vehicles	5 years

The assets' 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 are determined by comparing the proceeds with the carrying amount and are recognised in other gains/(losses).

5.10 Goodwill

Goodwill is tested for impairment annually, or more frequently if events or changes in circumstances indicate that it might be impaired, and is carried at cost less accumulated impairment losses.

For the purpose of impairment testing, goodwill is allocated to cash-generating units or groups of cash-generating units that are expected to benefit from the business combination in which the goodwill arose. The units or groups of units are identified at the lowest level at which goodwill is monitored for internal management purposes.

5.11 Service concession arrangements

Service concession arrangements are arrangements between government (the grantor) and a private sector entity (the operator) which involve the operator constructing the infrastructure used to provide the public service or upgrading it and operating and maintaining that infrastructure for a specified period of time. The operator is paid for its services over the period of the arrangement. The grantor controls or regulates what services the operator must provide with the infrastructure, to whom it must provide them, and at what price and the grantor control-through ownership, beneficial entitlement or otherwise - any significant residual interest in the infrastructure at the end of the term of the arrangement.

If the Group as the operator provides construction or upgrade services, revenue and costs relating to construction or upgrade services shall be accounted for based on the stage of completion on the construction contract. The consideration received or receivable by the operator shall be recognised at its fair value of an intangible asset.

The Group shall recognise an intangible asset to the extent that it receives a right (a licence) to charge users of the public service. A right to charge users of the public service is not an unconditional right to receive cash because the amounts are contingent on the extent that the public uses the service. Revenue and costs relating to operation services shall be recognised when service is provided by reference to the contract term.

Contractual obligations to maintain or restore infrastructure, except for any upgrade element shall be recognised and measured at the best estimate of the expenditure that would be required to settle the present obligation at the end of the reporting period.

5.12 Intangible assets

5.12.1 Right to use assets

(a) Right to use gas pipeline

Cost of gas piping of which the right was transferred to gas supplier according to the gas purchase agreement is classified as intangible assets on right transferring date and amortised using the straight-line basis over the period of the gas purchase agreement from 5 to 25 years.

(b) Right to use substations

Cost of substation of which the right was transferred to provincial Electricity Authority according to the power purchase agreement is classified as intangible assets on right transferring date and amortised using the straight-line basis over the period of power purchase agreement from 17 to 25 years.

(c) Right to use utility system

Right to use utility system is the cost incurred to obtain right over utility system for transmission of water. The cost is capitalised and amortised using the straight-line method over the period of contract from 3 to 13 years.

5.12.2 Right in operation and maintenance contracts

The right in operation and maintenance contracts arising on acquisition of subsidiary is amortised using the straight-line basis over the periods of the operation and maintenance contracts of which 21 years.

5.12.3 Right from service concession arrangements

Right from service concession arrangements is the right from service concession arrangements to generating and distribution of electricity with the Laos PDR government as described in the accounting policies in Note 5.11 Service concession arrangements are amortised using the straight-line method over the period of power purchase agreement attached to the concession agreements and recorded as expense in profit and loss for a period of 25 years.

5.12.4 Deferred power plant costs

Deferred power plant costs include the necessary and relevant expenditures on acquiring relevant licences for the power plant's operation and costs incurred on development projects that are recognised as intangible assets when it is probable that the project will be a success and only if the cost can be measured reliably. Other development expenditure is recognised as an expense as incurred. Development costs previously recognised as an expense are not recognised as an asset in a subsequent period. Deferred power plant costs have been capitalised and amortised using the straight-line basis over the period of power purchase agreement of 21 to 25 years, starting from the commercial operation date.

5.12.5 Land use right

Land use right is the cost incurred to obtain right over land for installation of power plant, substation, transmission system, and electricity posts. The cost is capitalised and amortised using the straight-line method over the useful lives of power plant or over land lease agreement period which are from 25 to 29 years.

5.12.6 Right in power purchase agreements

Right in power purchase agreements acquired in business combination are initially recognised at fair value at the acquisition date. Right in power purchase agreements will be amortised using the straight-line basis over the period of power purchase agreements, power supply agreements and stream supply agreements to customers with period from 1 to 25 years.

The amount paid to obtain right in power purchase agreements which is not from business combination is capitalised as intangible assets and amortised using the straight-line basis over the period of power purchase agreements.

5.12.7 Computer software

Acquired computer software licenses are capitalised on the basis of the costs incurred to acquire and bring to use the specific software. These costs are amortised over their estimated useful lives from 3 to 10 years.

5.13 Impairment of assets

Assets that have an indefinite useful life are tested annually for impairment, or more frequently if events or changes in circumstances indicate that it might be impaired. Assets that are subject to amortisation are reviewed for impairment whenever there is an indication of impairment. 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 of disposal and value in use.

Where the reasons for previously recognised impairments no longer exist, the impairment losses on the assets concerned other than goodwill is reversed.

5.14 Leases

For the year ended 31 December 2020

Leases - where the Group is the lessee

Leases are recognised as a right-of-use asset and a corresponding liability at the date at which the leased asset is available for use by the Group. Each lease payment is allocated between the liability and finance cost. The finance cost is charged to profit or loss over the lease period so as to produce a constant periodic rate of interest on the remaining balance of the liability for each period. The right-of-use asset is depreciated over the shorter of the asset's useful life and the lease term on a straight-line basis.

Contracts may contain both lease and non-lease components. The Group allocates the consideration in the contract to the lease and non-lease components based on their relative stand-alone prices. However, for leases of real estate for which the Group is a lessee, it has elected not to separate lease and non-lease components and instead accounts for these as a single lease component.

Assets and liabilities arising from a lease are initially measured on a present value basis. Lease liabilities include the net present value of the following lease payments:

- fixed payments (including in-substance fixed payments), less any lease incentives receivable
- variable lease payment that are based on an index or a rate
- amounts expected to be payable by the lessee under residual value guarantees
- the exercise price of a purchase option if the lessee is reasonably certain to exercise that option, and
- payments of penalties for terminating the lease, if the lease term reflects the lessee exercising that option.

Lease payments to be made under reasonably certain extension options are also included in the measurement of the liability.

The lease payments are discounted using the interest rate implicit in the lease. If that rate cannot be determined, the lessee's incremental borrowing rate is used, being the rate that the lessee would have to pay to borrow the funds necessary to obtain an asset of similar value in a similar economic environment with similar terms and conditions.

The Group is exposed to potential future increases in variable lease payments based on an index or rate, which are not included in the lease liability until they take effect. When adjustments to lease payments based on an index or rate take effect, the lease liability is reassessed and adjusted against the right-of-use asset.

Right-of-use assets are measured at cost comprising the following:

- the amount of the initial measurement of lease liability
- any lease payments made at or before the commencement date less any lease incentives received
- any initial direct costs, and
- restoration costs.

Payments associated with short-term leases and leases of low-value assets are recognised on a straight-line basis as an expense in profit or loss. Short-term leases are leases with a lease term of 12 months or less. Low-value assets comprise small items of office furniture.

During the reporting period, the Group received discounts in the lease payments from lessors due to the COVID-19 outbreak. The Group elected not to account for all discounts in the lease payments under the lease modification in accordance with TFRS 16. Instead, the Group has chosen to apply the temporary measures to relieve the impact from COVID-19 announced by TFAC for the reporting periods ended between 1 January 2020 and 31 December 2020 by reducing lease liabilities in the proportion of the reduction to the lease payments throughout the period that the Group has received the reduction. The Group also reversed depreciation charges on the right-of-use assets and interest expenses on the lease liabilities recognised in the same proportion of Baht 0.94 million and Baht 0.57 million, respectively. The differences between the reduction of the lease liabilities and the reversal of the expenses are recognised in other gains(losses) instead of remeasuring lease liabilities and adjusting the corresponding right-of-use assets from the lease modification.

Leases - where the Group is the lessor

Rental income under operating leases (net of any incentives given to lessees) is recognised on a straight-line basis over the lease term. Initial direct costs incurred in obtaining an operating lease are added to the carrying amount of the underlying asset and recognised as expense over the lease term on the same basis as lease income. The respective leased assets are included in the statement of financial position based on their nature.

For the year ended 31 December 2019

Leases - where the Group is the lessee

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.

5.15 Financial liabilities

For the year ended 31 December 2020

a) Classification

Financial instruments issued by the Group are classified as either financial liabilities or equity securities by considering contractual obligations.

- Where the Group has an unconditional contractual obligation to deliver cash or another financial asset to another entity, it is considered a financial liability unless there is a predetermined or possible settlement for a fixed amount of cash in exchange of a fixed number of the Group's own equity instruments.
- Where the Group has no contractual obligation or has an unconditional right to avoid delivering cash or another financial asset in settlement of the obligation, it is considered an equity instrument.

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 reporting date.

b) Measurement

Financial liabilities are initially recognised at fair value and are subsequently measured at amortised cost.

Fees paid on the establishment of loan facilities are recognised as transaction costs of the loan to the extent that it will be drawn down. The fee is deferred until the drawn down occurs and included in effective interest calculation. However, if it is probable that facility will not be drawn down, that portion of the fee paid is recognised as a prepayment and amortised over the period of related facility.

c) Derecognition and modification

Financial liabilities are derecognised when the obligation specified in the contract is discharged, cancelled, or expired.

Where the terms of a financial liability are renegotiated/modified, the Group assesses whether the renegotiation or modification results in the derecognition of that financial liability. Where the modification results in an extinguishment, the new financial liability is recognised based on fair value of its obligation. The remaining carrying amount of financial liability is derecognised. The difference as well as proceed paid is recognised as other gains/(losses) in profit or loss.

Where the modification does not result in the derecognition of the financial liability, the carrying amount of the financial liability is recalculated as the present value of the renegotiated or modified contractual cash flows discounted at its original effective interest rate. The difference is recognised in other gains/(losses) in profit or loss.

For the year ended before 31 December 2019

Borrowings

Borrowings are recognised initially at the fair value, net of directly attributable transaction costs incurred. Borrowings are subsequently stated at amortised cost.

Fees paid on the establishment of loan facilities are recognised as transaction costs of the loan to the extent that it will be drawn down. The fee is deferred until the drawn down occurs and included in effective interest calculation. However, if it is probable that facility will not be drawn down, that portion of the fee paid is recognised as a prepayment and amortised over the period of related facility.

Borrowings are removed from the statements of financial position when the obligation specified in the contract is discharged, cancelled, or expired. The difference between the carrying amount of a financial liability that has been extinguished or transferred to another party and the consideration paid, including any non-cash assets transferred or liabilities assumed, is recognised in profit or loss as finance costs.

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 reporting date.

5.16 Borrowing costs

General and specific borrowing costs directly attributable to the acquisition, construction or production of qualifying assets are added to the cost of those assets less investment income earned from those specific borrowings. The capitalisation of borrowing costs is ceased when substantially all the activities necessary to prepare the qualifying asset for its intended use or sale are complete.

Other borrowing costs are expensed in the period in which they are incurred.

5.17 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.

Current tax

The current income tax is calculated on the basis of the tax laws enacted or substantively enacted at the end of the reporting period. 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

Deferred income tax is recognised on temporary differences arising from differences between the tax base of assets and liabilities and their carrying amounts in the financial statements. However, deferred income tax is not recognised for temporary differences arise from:

- initial recognition of an asset or liability in a transaction other than a business combination that affects neither accounting nor taxable profit or loss is not recognised
- investments in subsidiaries, associates and joint arrangements 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 is measured using tax rates of the period in which temporary difference is expected to be reversed, based on tax rates and laws that have been enacted or substantially enacted by the end of the reporting period.

Deferred 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 tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets and liabilities and when the deferred tax balances relate to the same taxation authority. Current tax assets and tax liabilities are offset where the entity has a legally enforceable right to offset and intends either to settle on a net basis, or to realise the asset and settle the liability simultaneously.

5.18 Employee Benefits

5.18.1 Short-term employee benefits

Liabilities for short-term employee benefits such as salaries, paid annual leave and paid sick leave, bonuses, and medical care that are expected to be settled wholly within 12 months after the end of the period are recognised in respect of employees' service up to the end of the reporting period. They are measured at the amount expected to be paid.

5.18.2 Defined contribution plan

The Group pays contributions to a separate fund on a contractual basis. The Group has no further payment obligations once the contributions have been paid. The contributions are recognised as employee benefit expense when they are due.

5.18.3 Retirement benefits

Amount of retirement benefits is defined by the agreed benefits the employees will receive after the completion of employment. It usually depends on factors such as age, years of service and an employee's latest compensation at retirement.

The defined benefit obligation is calculated by an independent actuary using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using market yield of government bonds that matches the terms and currency of the expected cash outflows.

Remeasurement gains and losses are recognised directly to other comprehensive income in the period in which they arise. They are included in retained earnings in the statements of changes in equity.

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

5.18.4 Long service awards

The Group gives gold rewards to employees when they have worked for the Group for 10 years and consecutively every 5 years after. These obligations are measured similar to defined benefit plans except remeasurement gains and losses that are charged to profit or loss.

5.18.5 Termination benefits

The Group recognises termination benefits at the earlier of (a) when the Group can no longer withdraw the offer of those benefits; and (b) when the entity recognises costs for the related restructuring. Benefits due more than 12 months are discounted to their present value.

5.19 Share-based payment

The Group measures equity-settled, share-based compensation plans for employees by reference to the fair value of the equity instrument granted at the grant date. The expense is recognised corresponding to increase in equity, over the period that the employee become conditionally entitled to the awards. The amount recognised as an expense is adjusted to reflect the actual amount of awards for which the related service and non-market vesting conditions are expected to be met.

Share-based payment expense is charged to profit or loss corresponding to the increase in "Other reserve - share-based payments" in equity over the periods in which the service conditions are fulfilled. The amount of shares, which has been allocated for share-based compensation plans for employees, will be presented deducting in equity as "Reserved shares for employee benefits under share-based payment scheme". Once the employee service condition is met, this reserved amount will be offsetting with "Other reserve - share-based payments" in equity.

The grant by the Company of common shares over its equity instruments to the employees of subsidiary undertakings in the Group is treated as a capital contribution. The fair value of employee services received, measured by reference to the grant date fair value of equity instrument, is recognised over the vesting period as an increase to investment in subsidiaries, in separate financial statements undertakings, with a corresponding credit to equity.

5.20 Provisions

5.20.1 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.

Provisions are measured at the present value of the expenditures expected to be required to settle the obligation. The increase in the provision due to passage of time is recognised as interest expense.

5.20.2 Provision for minimum payments under rights to sell electricity agreements

The Group recognises provision for minimum payments under rights to sell electricity agreements at present value of minimum amount to be paid to the counterparty, according to the conditions specified in the right in power purchase agreements ("PPA"), on a monthly basis throughout the PPA's period. The Group's cost of capital rate is used as discount rate in determining the present value. Provision for minimum payments under rights to sell electricity agreements is recognised corresponding to "right in power purchase agreement" (in "intangible assets") and will be gradually decreased as the payment is made to the counterparty.

5.20.3 Provision for decommissioning costs

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 power plants. The recognised provision for decommissioning costs are calculated based on many assumptions such as abandonment time, future inflation rate and present value of cost estimation. Removal costs are calculated by discounting the estimated future cash outflows using market yield of government bonds that matches the terms and currency of the expected cash outflows. These costs are included as part of the power plants.

5.21 Share capital

Ordinary shares are classified as equity.

Incremental costs directly attributable to the issue of new shares are shown in equity as a deduction, net of tax, from the proceeds.

5.22 Subordinated perpetual bond

Subordinated perpetual bond is recognised as equity when the bond will be redeemed at the Company's liquidation. The Company has the sole right to exercises early redeem as per terms and conditions specified and to defer interest payment without requirement for bondholder's consent and without time limitation. Accordingly, any interest payments are recognised similar as dividends and directly in equity when payment obligation arises. Interest payments are presented in the statement of cash flows at the same way as dividends paid to ordinary shareholders.

5.23 Revenue recognition

Revenue include all revenues from ordinary business activities. All ancillary income in connection with the rendering of services in the course of the Group's ordinary activities is also presented as revenue.

Revenue are recorded net of value added tax. They are recognised in accordance with the provision of goods or services, provided that collectibility 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 fulfillment of the obligation to the customer.

Electricity sales under PPA are recognised on delivery of electricity and customer's acceptance and measured based on actual electricity delivered and the price as set out in the PPA.

Steam sales with industrial users are recognised on delivery of steam and measured based on actual steam delivered and the price as set out in the steam sales/purchase agreements.

The Group recognised service contracts with a continuous service provision as revenue on a straight-line basis over the contract term, regardless of the payment pattern.

Construction revenue under concession agreement is recognised over time using the percentage of completion method. The stage of completion is generally determined as the percentage of cost incurred up until the reporting date relative to total estimated cost. Where the stage of completion is not reliably measured, revenue is only recognised up to the amount of contract costs expensed, provided it is recoverable.

Interest income is recognised using the effective interest method.

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

Contract assets and contract liabilities

A contract asset is recognised where the Group recorded revenue for fulfilment of a contractual performance obligation before the customer paid consideration or before the requirements for billing.

A contract liability is recognised when the customer paid consideration or a receivable from the customer that is due before the Group fulfilled a contractual performance obligation.

For each customer contract, contract liabilities are set off against contract assets.

5.24 Dividend distribution

Dividend distributed to the Group's shareholders is recognised as a liability when interim dividends are approved by the Board of Directors, and when the annual dividends are approved by the shareholders.

5.25 Derivatives and hedging activities

a) Derivative and derivatives that do not qualify for hedge accounting

Derivatives that do not qualify for hedge accounting is initially recognised at fair value. Changes in the fair value are included in profit or loss.

Fair value of derivatives is classified as a current or non-current following its remaining maturity.

b) Hedge accounting

Derivatives are initially recognised at fair value on the date a derivative contract is entered into and are subsequently remeasured to their fair value at the end of each reporting period.

The accounting for subsequent changes in fair value depends on whether the derivative is designated as a hedging instrument, and if so, the nature of the item being hedged. The Group designates certain derivatives as hedges of a particular risk associated with the cash flows of recognised assets and liabilities and highly probable forecast transactions (cash flow hedges).

At inception of the hedge relationship, the Group documents the economic relationship between hedging instruments and hedged items including whether changes in the cash flows of the hedging instruments are expected to offset changes in the cash flows of hedged items. The Group documents its risk management objective and strategy for undertaking its hedge transactions.

The full fair value of a hedging derivative is classified as a current or non-current asset or liability following the maturity of related hedged item.

The fair values of derivative financial instruments designated in hedge relationships are disclosed in Note 7. Movements in the hedging reserve in shareholders' equity are shown in Note 6.

Hedge effectiveness

Hedge effectiveness is determined at the inception of the hedge relationship, and through periodic prospective effectiveness assessments, to ensure that an economic relationship exists between the hedged item and hedging instrument.

For hedges of foreign currency transactions, where the critical terms of the hedging instrument match exactly with the terms of the hedged item, the Group performs a qualitative assessment of effectiveness. If critical terms of hedged item do not exactly match with the critical terms of the hedging instrument, or there are changes in the changes in the circumstances that affect the terms of the hedged items such that the critical terms no longer match exactly with the critical terms of the hedging instrument, the Group would use the hypothetical derivative method to assess effectiveness.

In hedges of foreign currency transactions, ineffectiveness may arise if the timing of the forecast transaction changes from what was originally estimated, or if there are changes in the credit risk of the derivative counterparty.

The Group enters into interest rate swaps that have similar critical terms as the hedged item, such as reference rate, reset dates, payment dates, maturities and notional amount. The Group does not hedge 100% of its loans, therefore the hedged item is identified as a proportion of the outstanding loans up to the notional amount of the swaps. As all critical terms matched during the year, there is an economic relationship.

Hedge ineffectiveness for interest rate swaps is assessed using the same principles as for hedges of foreign currency purchases. It may occur due to:

- the credit value/debit value adjustment on the interest rate swaps which is not matched by the loan, and
- differences in critical terms between the interest rate swaps and loans.

Cash flow hedges that qualify for hedge accounting

The effective portion of changes in the fair value of derivatives that are designated and qualify as cash flow hedges is recognised in the cash flow hedge reserve within equity. The gain or loss relating to the ineffective portion is recognised immediately in profit or loss, within other gains (losses).

When forward contracts are used to hedge forecast transactions, the Group generally designates only the change in fair value of the forward contract related to the spot component as the hedging instrument. Gains or losses relating to the effective portion of the change in the spot component of the forward contracts are recognised in the cash flow hedge reserve within equity. The change in the forward element of the contract that relates to the hedged item ('aligned forward element') is recognised within other comprehensive income in the costs of hedging reserve within equity.

In some cases, the Group may designate the full change in fair value of the forward contract (including forward points) as the hedging instrument. In such cases, the gains or losses relating to the effective portion of the change in fair value of the entire forward contract are recognised in the cash flow hedge reserve within equity.

Amounts accumulated in equity are reclassified in the periods when the hedged item affects profit or loss, as follows:

- Where the hedged item subsequently results in the recognition of a non-financial asset (such as property, plant and equipment), both the deferred hedging gains and losses and the deferred forward points are included within the initial cost of the asset. The deferred amounts are ultimately recognised in profit or loss as the hedged item affects profit or loss (for example through depreciation expenses).
- The gain or loss relating to the effective portion of the interest rate swaps hedging variable rates borrowings is recognised in profit or loss within finance costs at the same time as the interest expense on the hedged borrowings.

5.26 Financial guarantee contracts

Financial guarantee contracts are recognised as a financial liability at the time the guarantee is issued. The liability is initially measured at fair value and subsequently at the higher of:

- the amount determined in accordance with the expected credit loss model under TFRS 9; and
- the amount initially recognised less the cumulative amount of income recognised in accordance with the principles of TFRS 15.

The fair value of financial guarantees is determined based on the present value of the difference in cash flows between a) the contractual payments required under the debt instrument; and b) the payments that would be required without the guarantee, or the estimated amount that would be payable to a third party for assuming the obligations.

Where guarantees in relation to loans or other payables of associates are provided for no compensation, the fair values are accounted for as contributions and recognised as part of the cost of the investment.

5.27 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 Board of Directors that makes strategic decisions.

6 Financial risk management

6.1 Financial risk factors

The Group exposes to a variety of financial risk: market risk (including foreign exchange risk and interest rate risk), credit risk and liquidity risk. The Group's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimise potential adverse effects on the Group's financial performance. The Group uses derivative financial instruments to hedge certain exposures.

Financial risk management is carried out by a central treasury department (Group treasury). The Group's policy includes areas such as foreign exchange risk, interest rate risk, credit risk and liquidity risk. The framework parameters are approved by the Board of Directors and uses as the key communication and control tools for Treasury team globally.

Where all relevant criteria are met, hedge accounting is applied to remove the accounting mismatch between the hedging instrument and the hedged item. This will effectively result in recognising interest expense at a fixed interest rate for the hedged floating rate loans and non-financial assets at the fixed foreign currency rate for the hedged transactions.

Derivatives

Hedging reserve

The Group recognises adjustments of the fair value of the derivatives in hedging reserve and retained earnings as follows.

	Consolidated financial statements	
	Hedging reserve	Retained earnings
As of 31 December 2020	Baht '000	Baht '000
Current assets		
Forward contracts - cash flow hedges	5,964	-
Cross currency interest rate swaps - cash flow hedges	8,376	-
Total derivative assets - current	14,340	-
Non-current assets		
Forward contracts - cash flow hedges	9,423	-
Cross currency interest rate swaps - cash flow hedges	408,695	-
Total derivative assets - non-current	418,118	-
Current liabilities		
Forward contracts - cash flow hedges	2,866	-
Interest rate swaps - recognised change in fair value through profit or loss	-	11,389
Total derivative liabilities - current	2,866	11,389
Non-current liabilities		
Forward contracts - cash flow hedges	21,425	-
Interest rate swaps - cash flow hedges	3,417,968	-
Total derivative liabilities - non-current	3,439,393	-

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The Group and the Company's reserves relate to the following hedging instruments:

	Consolidated financial statements				
	Hedging reserve				
	Cash flow hedge reserve				
		Spot	Spot		
	Cost of	component	component	Interest rate	Total hedge
	hedging	of currency	of cross	swaps	reserves
	reserve	forwards	currency	interest	swaps
	Baht '000	Baht '000	rate swaps	rate swaps	Baht '000
	Baht '000	Baht '000	Baht '000	Baht '000	Baht '000
Opening balance 1 January 2020					
- as restated	(132,543)	-	773,533	(2,426,329)	(1,785,339)
Add: Change in fair value of hedging instrument recognised in OCI	-	7,334	(302,827)	(1,042,656)	(1,338,149)
Add: Costs of hedging deferred and recognised in OCI	(32,031)	-	-	-	(32,031)
Less: Reclassification from OCI to profit or loss	1,367	-	9,340	639,138	649,845
Less: Deferred tax	8,550	(1,467)	20,536	31,629	59,248
Closing balance 31 December 2020	(154,657)	5,867	500,582	(2,798,218)	(2,446,426)

Amounts recognised in profit or loss

In addition to the amounts disclosed in the reconciliation of hedging reserves above, the following amounts were recognised in profit or loss in relation to derivatives:

	Consolidated
	financial statements
	2020
	Baht '000
Net gain/(loss) on derivatives not qualifying as hedges included in finance costs	46,455

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6.1.1 Market risk

a) Foreign exchange risk

The Group operates internationally and is exposed to foreign currency risk arises mainly in US Dollar from trading transactions in the future, recognition of assets and liabilities that are denominated in foreign currencies and net investment in foreign operations.

The Group seeks to reduce this risk by entering into foreign currency forward contracts when it considers appropriate. The Group treasury uses foreign currency forwards to hedge their exposure to foreign currency risk for each foreign currency by transitioned with third parties in form of borrowings. Under the Group's policy, the critical terms of the forwards and options must align with the hedged items.

The Group only designates the spot component of foreign currency forwards in hedge relationships. The spot component is determined with reference to relevant spot market exchange rates. The differential between the contracted forward rate and the spot market exchange rate is defined as the forward points. It is discounted, where material.

The changes in the forward element of the foreign currency forwards that relate to hedged items are deferred in the costs of hedging reserve.

Exposure

The Group's exposure to foreign currency risk at the end of the reporting period, expressed in Baht are as follows:

	Consolidated financial statements					
	As at 31 December 2020					
	US Dollar Baht '000	Euro Baht '000	Swiss Franc Baht '000	Vietnamese Dong Baht '000	Korean Won Baht '000	Philippine Peso Baht '000
Cash and cash equivalents	982,784	-	-	2,077,184	1,235,092	27,490
Fixed bank deposits with maturity over 3 months	-	-	-	30,608	-	-
Trade and other receivables	683,675	-	-	695,454	20,109	5
Short-term loans to others	104,536	-	-	-	458,009	-
Restricted deposits	-	-	-	18,260	-	-
Derivatives - cash flow hedge						
- Forward contracts	-	15,387	-	-	-	-
- Cross currency interest rate swaps	417,071	-	-	-	-	-
Trade and other payables	1,911,955	9,966	1,584	957,993	24,027	22,399
Short-term borrowings from financial institutions	3,334,862	-	-	4,076,022	-	-
Short-term borrowings from others	-	-	39,605	-	-	-
Long-term borrowings from financial institutions	4,020,428	-	-	-	-	-
Derivatives - cash flow hedge						
- Forward contracts	22,323	1,968	-	-	-	-

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	Separate financial statements		
	As at 31 December 2020		
	US Dollar Baht '000	Euro Baht '000	Swiss Franc Baht '000
Cash and cash equivalents	275,132	-	-
Trade and other receivables	245,532	-	-
Short-term loans to related parties	5,959,018	-	-
Short-term loans to others	104,536	-	-
Long-term loans to related parties	1,681,820	-	-
Trade payables	10,744	9,966	1,584
Short-term borrowings from financial institutions	3,334,862	-	-
Short-term borrowings from others	-	-	39,605

Effects of hedge accounting on the financial position and performance

The effects of the foreign currency-related hedging instruments on the Group and the Company's financial position and performance are as follows:

	Consolidated financial statements
	Power plant construction agreements 2020
<i>Foreign currency forwards</i>	
Carrying amount (liabilities) (Baht '000)	8,904
Notional amount - (US Dollar' 000)	38,267
- (Euro' 000)	31,667
Maturity date	January 2021 - February 2023
Hedge ratio	1:1
Change in discounted spot value of outstanding hedging instruments since inception of the hedge (Baht '000)	7,334
Change in value of hedged item used to determine hedge effectiveness (Baht '000)	(7,334)
Weighted average hedged rate for outstanding hedging instruments (including forward points)	1 US Dollar = 30.64 1 Euro = 36.62
	Consolidated financial statements
	Long-term borrowings 2020
<i>Cross currency interest rate swap</i>	
Carrying amount (assets) (Baht '000)	417,071
Notional amount (US Dollar' 000)	158,347
Maturity date	April 2021 - May 2033
Hedge ratio	1:1
Change in discounted basis-free value of outstanding hedging instruments since 1 January (Baht '000)	(302,827)
Change in value of hedged item used to determine hedge effectiveness (Baht '000)	298,043
Weighted average hedged rate for outstanding hedging instruments (including forward points)	1 US Dollar = 33.61
Weighted average swap rate for outstanding hedging instruments	4.73%

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Sensitivity

As shown in the table above, the Group is primarily exposed to changes in Baht and foreign currency exchange rates. The sensitivity of profit or loss to changes in the exchange rates arises mainly from financial assets and financial liabilities denominated in foreign currencies and the impact on other components of equity arises from foreign forward exchange contracts and cross currency interest rate swap contracts designated as cash flow hedges.

	Consolidated financial statements	
	Impact to net profit	Impact to other components of equity
	2020	2020
	Baht '000	Baht '000
US Dollar to Baht exchange rate - increase 10% *	(477,780)	(271,805)
US Dollar to Baht exchange rate - decrease 10% *	477,780	271,805
Vietnamese Dong to Baht exchange rate - increase 10% *	1,387	(222,638)
Vietnamese Dong to Baht exchange rate - decrease 10% *	(1,387)	222,638
Korean Won to Baht exchange rate - increase 10% *	-	168,918
Korean Won to Baht exchange rate - decrease 10% *	-	(168,918)
* Holding all other variables constant		

	Separate financial statements	
	Impact to net profit	Impact to other components of equity
	2020	2020
	Baht '000	Baht '000
US Dollar to Baht exchange rate - increase 10% *	492,043	-
US Dollar to Baht exchange rate - decrease 10% *	(492,043)	-
* Holding all other variables constant		

b) Cash flow and fair value interest rate risk

The Group is exposed to interest rate risk through the impact of rate changes on interest bearing liabilities and assets. These exposures are managed partly by using natural hedges that arise from offsetting interest rate sensitive assets and liabilities, and partly through fixed rate borrowings and the use of derivative financial instruments such as interest rate swaps. The Group monitors interest rate exposure on a monthly basis by currency and business unit, taking into consideration proposed financing and hedging arrangements.

As at 31 December 2020 the Group's interest rate hedge was 81% of its total borrowings, with an average tenor of 7 years.

Cash flow interest rate risk is the risk that changes in market interest rates will impact cash flows arising from variable rate financial instruments. Borrowings at floating rates therefore expose the Group to cash flow interest rate risk. The Group manages this risk by using interest rate swaps converting borrowings from floating rate to fixed rate.

Fair value interest rate risk is the risk that the value of a financial asset or liability and derivative financial instruments will fluctuate because of changes in market interest rates.

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Effect of hedge accounting on the financial position and performance

The effects of the interest rate-related hedging instruments on the Group and the Company's financial position and performance are as follows:

	Consolidated financial statements
	Long-term borrowings 2020
<i>Interest rate swaps</i>	
Carrying amount (liabilities) (Baht '000)	3,439,393
Notional amount - (US Dollar '000)	313,500
- (Baht '000)	17,130,709
Maturity date	March 2021 - June 2035
Hedge ratio	1:1
Change in fair value of outstanding hedge instruments since 1 January (Baht '000)	(1,042,656)
Change in value of hedged item used to determine hedge effectiveness (Baht '000)	1,042,656
Weighted average strike rate for outstanding hedging instruments	3.37%

Sensitivity

Profit or loss is sensitive to higher or lower interest income from cash and cash equivalents, and interest expenses from borrowings as a result of changes in interest rates. Other components of equity changes as a result of an increase or decrease in the fair value of the cash flow hedges of borrowings.

	Consolidated financial statements	
	Impact to net profit	Impact to other components of equity
	2020	2020
	Baht '000	Baht '000
Interest rate - increase 0.25%*	6,694	286,756
Interest rate - decrease 0.25%*	(6,694)	(286,756)
* Holding all other variables constant		

	Separate financial statements	
	Impact to net profit	Impact to other components of equity
	2020	2020
	Baht '000	Baht '000
Interest rate - increase 0.25%*	2,564	-
Interest rate - decrease 0.25%*	(2,564)	-
* Holding all other variables constant		

6.1.2 Credit risk

Credit risk arises from cash and cash equivalents, contractual cash flows of debt investments carried at amortised cost, at fair value through other comprehensive income (FVOCI) and at fair value through profit or loss (FVPL), derivative financial instruments as well as credit exposures to customers, including outstanding receivables.

a) Risk management

The Group has no significant concentrations of credit risk relating to its cash and investments. The Group places its cash and investments with financial institutions with high credit rating. The Group's policy is designed to limit the risk exposure with any specific financial institution and to invest its excess cash in low risk investment accounts. The Group has no experiences of lost in such accounts.

For transactions with customers, the Group assesses credit quality of each customer, taking into account its financial position, past experience and other factors. The major customers comprise state-owned enterprises and industrial users with strong financial position under the terms and conditions of the long-term power and steam purchase agreements. There are no significant concentrations of credit risk through exposure to individual customers.

b) Impairment of financial assets

The Group and the Company has financial assets that are subject to the expected credit loss model:

- Cash and cash equivalents
- fixed bank deposits with maturity over 3 months (debt investments carried at amortised cost)
- trade and other receivables
- contract assets
- loans to related parties; and
- loans to third parties.

Management assessed that there is no material loss from impairment of financial assets.

6.1.3 Liquidity risk

Prudent liquidity risk management implies maintaining sufficient cash and marketable securities and the availability of funding through an adequate amount of committed credit facilities to meet obligations when due and to close out market positions. At the end of the reporting period the Group held deposits at call of Baht 16,953 million (2019: Baht 17,770 million) that are expected to readily generate cash inflows for managing liquidity risk. Due to the dynamic nature of the underlying businesses, the Group Treasury maintains flexibility in funding by maintaining availability under committed credit lines.

Management monitors i) rolling forecasts of the Group's liquidity reserve (comprising the undrawn borrowing facilities; and ii) cash and cash equivalents on the basis of expected cash flows. In addition, the Group's liquidity management policy involves projecting cash flows in major currencies and considering the level of liquid assets necessary, monitoring balance sheet liquidity ratios and maintaining financing plans.

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Maturity of financial liabilities

The tables below analyse the maturity of financial liabilities grouping based on their contractual maturities. The amounts disclosed are the contractual undiscounted cash flows (principle and interest). Balances due within 12 months equal their carrying balances as the impact of discounting is not significant. For interest rate swaps, the cash flows have been estimated using forward interest rates applicable at the end of the reporting period.

The Group's trading portfolio of derivative instruments with a negative fair value has been included at their fair value of Million Baht 11.4 within the 'On demand' time bucket. This is because the contractual maturities are not essential for an understanding the cash flows' timing. These contracts are managed on a net fair value basis, rather than by maturity date.

	Consolidated financial statements			
	Within 1 year Baht '000	1 - 5 years Baht '000	Over 5 years Baht '000	Total Baht '000
Maturity of financial liabilities as at 31 December 2020				
Short-term borrowings				
from financial institutions	15,097,667	-	-	15,097,667
Trade and other payables	5,641,053	-	-	5,641,053
Short-term borrowings from other	40,397	-	-	40,397
Long-term borrowings from				
financial institutions	2,138,625	10,088,909	24,878,665	37,106,199
Debentures	4,860,136	17,235,306	16,503,267	38,598,709
Lease liabilities	128,427	280,850	1,366,014	1,775,291
Total financial liabilities that is not derivatives	27,906,305	27,605,065	42,747,946	98,259,316
Derivative financial instruments				
Interest rate swaps - recognised change in fair value through profit or loss	11,390	-	-	11,390
Forward contracts - cash flow hedges				
- Cash inflows	(1,540,643)	(757,979)	-	(2,298,622)
- Cash outflows	1,555,369	777,328	-	2,332,697
Cross currency interest rate swaps				
- cash flow hedges				
- Cash inflows	(488,171)	(2,112,352)	(3,224,239)	(5,824,762)
- Cash outflows	544,669	2,335,011	3,557,596	6,437,276
Interest rate swaps - cash flow hedges				
- Cash inflows	-	-	-	-
- Cash outflows	767,439	2,566,284	1,073,911	4,407,634
Total derivatives	850,053	2,808,292	1,407,268	5,065,613
Total	28,756,358	30,413,357	44,155,214	103,324,929
	Separate financial statements			
	Within 1 year Baht '000	1 - 5 years Baht '000	Over 5 years Baht '000	Total Baht '000
Maturity of financial liabilities as at 31 December 2020				
Short-term borrowings				
from financial institutions	9,139,170	-	-	9,139,170
Trade and other payables	392,325	-	-	392,325
Short-term borrowings from other	40,397	-	-	40,397
Long-term borrowings from				
financial institutions	100,500	1,271,630	2,155,825	3,527,955
Debentures	3,261,384	10,259,773	5,610,400	19,131,557
Lease liabilities	17,379	51,408	162,371	231,158
Total financial liabilities	12,951,155	11,582,811	7,928,596	32,462,562

6.2 Capital management

6.2.1 Risk management

The objectives when managing capital are to:

- safeguard their ability to continue as a going concern, to provide returns for shareholders and benefits for other stakeholders, and
- maintain an optimal capital structure to reduce the cost of capital

In order to maintain or adjust the capital structure, the Group may adjust the amount of dividends paid to shareholders, return capital to shareholders, issue new shares or sell assets to reduce debt.

Consistent with others in the industry, the Group monitors capital based on gearing ratio which is determined by dividing net interest-bearing debt with equity.

During the year 2020, the Group's strategy, which remains unchanged, was to maintain net interest-bearing debt not more than twice of equity. The gearing ratios at 31 December are as follows:

	2020	2019
	Baht '000	Baht '000
Net interest-bearing debt	57,377,000	37,115,622
Equity (including non-controlling interests)	39,304,082	38,677,261
Net debt to equity ratio	1.46 : 1	0.96 : 1

Loan covenants

Under the terms of the major borrowing facilities, the Group is required to comply with the following financial covenants:

- the debt to equity ratio (D/E) must be not more than 3:1, and
- the debt service coverage ratio (DSCR) must be more than 1.1

The Group has complied with these covenants throughout the reporting period.

7 Fair value

The following table presents fair value of financial assets and liabilities recognised at fair value by their hierarchy, excluding where its fair value is approximating the carrying amount.

31 December	Consolidated financial statements	
	Level 2	
	2020	2019
	Baht '000	Baht '000
Assets		
Hedging derivatives		
Forward contracts	15,387	-
Cross currency interest rate swap	417,071	-
Total assets	432,458	-
Liabilities		
Financial liabilities at fair value through profit or loss		
Derivatives - Interest rate swaps	11,389	-
Hedging derivatives		
Interest rate swaps	3,417,968	-
Forward contracts	24,291	-
Total liabilities	3,453,648	-

Fair values of the Group's financial assets and liabilities are recognised by using level 2 data hierarchy.

Note: As at 31 December 2019, the Group had not yet adopted financial reporting standards relating to financial instruments.

Fair values are categorised into hierarchy based on inputs used as follows:

- Level 1: The fair value of financial instruments is based on the current bid price or closing price by reference to the Stock Exchange of Thailand or the Thai Bond Dealing Centre.
- Level 2: The fair value of financial instruments is determined using significant observable inputs and, as little as possible, entity-specific estimates.
- Level 3: The fair value of financial instruments is not based on observable market data.

The fair value measurement of financial assets and financial liabilities is in accordance with the accounting policies disclosed in Note 5.7 and Note 5.15.

Transfer between fair value hierarchy

During the year, the Group did not transfer any financial instrument item between levels.

The Group's valuation processes

Chief Financial Officer (CFO) and a valuation team discuss valuation processes and results at least every quarter.

8 Critical accounting estimates and judgements

Estimates 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.

a) Power plant, equipment and intangible assets

Management determines the estimated useful lives and residual values for the power plant, equipment and intangible assets mainly based on its technical ability and economic useful lives. The management will revise the depreciation charge where useful lives and residual values are significantly different to previously estimated, or it will write-off or write-down technically obsolete or assets that have been abandoned or sold.

b) Fair value of certain financial assets and derivatives

The fair value of financial instruments that are not traded in an active market is determined using valuation techniques. The Group uses judgement to select a variety of methods and make assumptions that are mainly based on market conditions existing at the end of each reporting period. Details of key assumptions used are included in Note 7.

c) Goodwill impairment

The recoverable amounts of cash-generating units have been determined based on fair value less cost to sell calculations. The calculations use cash flow projections based on financial budget covering the remaining period of power purchase agreement. Details of key assumptions used are disclosed in Note 22.

d) Defined employee benefit obligations

The present value of the employee benefit obligations depends on a number of assumptions. Key assumptions used and impacts from possible changes in key assumptions are disclosed in Note 29.

e) Consolidation of an entity with less than 50% ownership

Management consider that the Group has de facto control over Amata Power (Bien Hoa) Limited even though it has less than 50% of the voting rights. The Group is the major shareholder of Amata Power (Bien Hoa) Limited with a 30.72% equity interest, while all other shareholders individually own less than 30.00% of its equity shares. There is no history of other shareholders forming a group to exercise their votes collectively.

f) Classification of a joint arrangement

The Company holds 48% to 70% of the voting rights of its joint arrangements as disclosed in Note 18 (b) The Group has joint control over this arrangement as under the contractual agreements, unanimous consent is required from all parties to the agreements for all relevant activities.

The Group's joint arrangement is structured as a limited company and provides the Group and the parties to the agreements with rights to the net assets of the limited company under the arrangements. Therefore, this arrangement is classified as a joint venture.

g) Determination of lease terms

Critical judgement in determining the lease term, the Group considers all facts and circumstances that create an economic incentive to exercise an extension option, or not exercise a termination option. Extension options (or periods after termination options) are only included in the lease term if the lease is reasonably certain to be extended (or not terminated).

For leases of properties, the most relevant factors are historical lease durations, the costs and conditions of leased assets.

Most extension options on offices and vehicles leases have not been included in the lease liability, because the Group considers i) the underlying asset condition and/or ii) insignificant cost to replace the leased assets.

The lease term is reassessed if an option is actually exercised (or not exercised) or the Group becomes obliged to exercise (or not exercise) it. The assessment of reasonable certainty is only revised if a significant event or a significant change in circumstance affecting this assessment occur, and that it is within the control of the Group.

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h) Determination of discount rate applied to leases

The Group determines the incremental borrowing rate as follows:

- Where possible, use recent third-party financing received by the individual lessee as a starting point, adjusting to reflect changes in its financing conditions.
- Make adjustments specific to the lease, e.g. term, country, currency and security.

i) Impairment of financial assets

The loss allowances for financial assets are based on assumptions about default risk and expected loss rates. The Group uses judgement in making these assumptions and selecting the inputs used in the impairment calculation, based on the Group's past history and existing market conditions, as well as forward-looking estimates at the end of each reporting period.

j) Fair value estimation on business combination

The Group estimates fair value of net assets acquired under business combination by engaging professional valuer, applying appropriate valuation method based on financial assumptions to derive fair value of net assets acquired. These calculations require the use of management judgment on the inputs and assumptions in the valuation model.

9 Segment information

The Group has two reportable segments report which are comprised of electricity generating and other businesses.

- (1) Electricity generating: This segment is the generating and distribution of electricity for the government sectors and industrial users both in Thailand and overseas.
- (2) Other businesses: This segment is the business of investment holding and maintenance and operating services for power plants.

The Board of Directors primarily uses a measure of segment profit before tax, which is derived on a basis consistent with the measurement of profit in the consolidated financial statements.

	Consolidated financial statements			
	Electricity generating Baht '000	Other businesses Baht '000	Eliminations Baht '000	Total Baht '000
For the year ended 31 December 2020				
Segment revenues	45,429,609	1,067,691	(2,410,446)	44,086,854
Operating profit	7,720,942	1,850,321	(2,646,765)	6,924,498
Interest income	209,725	1,577,596	(1,595,221)	192,100
Finance costs	(3,252,459)	(1,549,373)	1,615,397	(3,186,435)
Share of profit from associate and joint ventures	-	58,342	-	58,342
Profit before income tax	4,678,208	1,936,886	(2,626,589)	3,988,505
Income tax	(261,980)	28,951	-	(233,029)
Net profit	<u>4,416,228</u>	<u>1,965,837</u>	<u>(2,626,589)</u>	<u>3,755,476</u>
Impact from unrealised loss on exchange rate				242,078
Impact from other items*				<u>310,845</u>
Normalised net profit**				<u><u>4,308,399</u></u>
Depreciation and amortisation	5,444,284	113,850	(64,037)	5,494,097
Segment fixed assets	79,979,829	569,492	(249,083)	80,300,238
Investment in associate and joint ventures				1,065,257
Unallocated assets				<u>49,330,385</u>
Consolidated total assets				<u><u>130,695,880</u></u>

* represents impact from non-recurring items

** represents net profit that excludes unrealised gain (loss) on exchange rate and other non-recurring items

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Timing of revenue recognition for the year ended 31 December 2020 are as follows:

	Consolidated financial statements			
	Electricity generating Baht '000	Other businesses Baht '000	Eliminations Baht '000	Total Baht '000
Timing of revenue recognition:				
At a point in time	45,148,744	-	(1,329,747)	43,818,997
Over time	280,865	1,067,691	(1,080,699)	267,857
Total	45,429,609	1,067,691	(2,410,446)	44,086,854

	Separate financial statements		
	Electricity generating Baht '000	Other businesses Baht '000	Total Baht '000
Timing of revenue recognition:			
At a point in time	115,864	-	115,864
Over time	153,405	263,024	416,429
Total	269,269	263,024	532,293

	Consolidated financial statements			
	Electricity generating Baht '000	Other businesses Baht '000	Eliminations Baht '000	Total Baht '000
For the year ended 31 December 2019				
Segment revenues	45,634,974	1,003,436	(2,506,521)	44,131,889
Operating profit	7,131,028	1,347,660	(1,922,050)	6,556,638
Interest income	193,352	1,353,297	(1,362,248)	184,401
Finance costs	(2,471,336)	(1,521,007)	1,362,174	(2,630,169)
Share of profit from associate and joint ventures	-	101,330	-	101,330
Profit before income tax	4,853,044	1,281,280	(1,922,124)	4,212,200
Income tax	(241,980)	6,809	-	(235,171)
Net profit	4,611,064	1,288,089	(1,922,124)	3,977,029
Impact from unrealised gain on exchange rate				(730,345)
Impact from other items*				410,854
Normalised net profit**				3,657,538
Depreciation and amortisation	4,654,780	67,800	(62,640)	4,659,940
Segment fixed assets	72,218,023	162,638	(249,038)	72,131,623
Investment in associate and joint ventures				1,530,543
Unallocated assets				48,030,639
Consolidated total assets				121,692,805

* represents impact from non-recurring items

** represents net profit that excludes unrealised gain (loss) on exchange rate and other non-recurring items

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Timing of revenue recognition for the year ended 31 December 2019 are as follows:

	Consolidated financial statements			
	Electricity generating Baht '000	Other businesses Baht '000	Eliminations Baht '000	Total Baht '000
Timing of revenue recognition:				
At a point in time	45,187,721	-	(1,422,058)	43,765,663
Over time	447,253	1,003,436	(1,084,463)	366,226
Total	45,634,974	1,003,436	(2,506,521)	44,131,889

	Separate financial statements		
	Electricity generating Baht '000	Other businesses Baht '000	Total Baht '000
Timing of revenue recognition:			
At a point in time	117,234	-	117,234
Over time	-	261,238	261,238
Total	117,234	261,238	378,472

Geographical segments

In presenting geographical information, revenue is based on the geographical location of customers and assets are based on the geographical location of the assets.

Geographical information

	Total revenue		Total assets	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Thailand	39,473,957	40,642,153	103,071,497	96,889,314
Lao PDR	450,882	628,604	5,148,233	5,135,085
Vietnam	4,155,431	2,861,132	19,128,768	19,001,628
Cambodia	6,584	-	1,517,205	182,688
The Republic of Korea	-	-	1,713,232	374,354
The Republic of the Philippines	-	-	116,935	109,736
Malaysia	-	-	10	-
	44,086,854	44,131,889	130,695,880	121,692,805

Major customer

One customer of the electricity generating has contributed revenue of Baht 28,330.10 million (2019: Baht 28,726.45 million).

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10 Cash and cash equivalents

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Cash on hand	4,446	2,570	10	10
Cash deposits at banks	16,952,727	17,769,773	2,194,689	7,190,459
Fixed deposits due within 3 months	2,153,152	3,388,827	10,580	1,514,796
	<u>19,110,325</u>	<u>21,161,170</u>	<u>2,205,279</u>	<u>8,705,265</u>

The interest rates on deposits at banks were ranging from 0.04% to 4.00% per annum (2019: 0.04% to 5.20% per annum).

11 Restricted deposits

	Consolidated financial statements	
	2020 Baht '000	2019 Baht '000
Current		
Benefits from the electricity generation under the revenue sharing agreement	365,490	364,798
Bank deposits	31,461	27,078
	<u>396,951</u>	<u>391,876</u>
Non-current		
Cash reserved for Amata B.Grimm Power Power Plant Infrastructure Fund's fees	124,113	129,080
	<u>521,064</u>	<u>520,956</u>

The subsidiary has restricted deposits in accordance with the revenue sharing agreement as a security for the repayment of all current and future liabilities to Amata B.Grimm Power Power Plant Infrastructure Fund.

As at 31 December 2020, bank deposits of Baht 31.46 million (2019: Baht 27.08 million) were pledged as collateral against bank guarantees. The bank deposits bear interest at the rates ranging from 0.05% to 3.20% per annum (2019: 0.22% to 4.00% per annum).

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12 Trade and other receivables, net

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Trade receivables				
- third parties	3,125,305	3,245,806	45,075	1,693
- related parties (Note 42.3)	408	781	10,419	29,622
Total trade receivables	3,125,713	3,246,587	55,494	31,315
Accrued income	3,094,222	3,418,753	12,832	19,997
Accrued interest income				
- third parties	26,540	26,706	190	1,743
- related parties (Note 42.3)	8,713	1,984	1,895,105	1,113,360
Dividends receivable - related parties (Note 42.3)	-	-	127,000	441,002
Contract assets	85,991	-	85,991	-
Prepaid insurance	244,872	113,201	1,196	1,099
Prepaid expenses	100,047	147,164	18,390	22,678
Deferred employee benefits expense	-	16,318	-	5,063
Advances for projects development	765	26,235	938,099	800,417
Advances to employees	2,488	5,898	18	3,618
Other receivables				
- third parties	60,651	34,689	10,322	2,814
- related parties (Note 42.3)	25,707	32,525	519,846	233,636
Others	48,881	90,116	32,909	2,129
Less Loss allowance	(6,478)	(4,067)	(5,218)	(2,807)
Total trade and other receivables, net	6,818,112	7,156,109	3,692,174	2,676,064

Outstanding trade receivables from third parties as at 31 December can be analysed as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Not yet due	2,795,819	3,233,995	45,075	1,693
Overdue - up to 3 months	247,855	11,753	-	-
- 3 - 6 months	12,021	-	-	-
- 6 - 12 months	31,640	-	-	-
- over 12 months	37,970	58	-	-
	3,125,305	3,245,806	45,075	1,693

Outstanding trade receivables from related parties as at 31 December can be analysed as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Not yet due	408	781	1,926	17,022
Overdue - up to 3 months	-	-	1,243	3,424
- 3 - 6 months	-	-	-	1,926
- 6 - 12 months	-	-	-	880
- over 12 months	-	-	7,250	6,370
	408	781	10,419	29,622

Contract assets

At 31 December 2020, contract assets amounting to Baht 85.99 million arose from revenue recognised under the purchase and construction contract for floating solar project which is greater than progress billings.

Contract assets are transferred to accounts receivable when the right to consideration becomes unconditional. The Company issues invoices according to period or progress defined in the contract.

Advances for projects development

Advances for projects development are the advances that the Company or subsidiaries paid for development of future projects of the Group. The advances will be charged to project companies once those companies are incorporated. Advances for project development were presented under “trade and other receivables” in the separate financial statements but being presented under “non-current assets” in the consolidated financial statements as they will be transferred to non-current assets of the Group in the future.

13 Financial assets and financial liabilities

As at 31 December 2020, the Group classified all financial assets and liabilities at amortised cost except

- Derivative assets and liabilities using hedge accounting are classified at FVOCI
- Derivative assets and liabilities not using hedge accounting are classified at FVPL

Financial assets at amortised cost

The carrying amounts of current financial assets at amortised cost approximate their fair values. Fair values of non-current financial assets at amortised cost are presented in the associated notes.

Loss allowance for financial assets is disclosed in associated notes.

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14 Short-term loans to third parties

At 31 December 2020, short-term loans to third parties are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Short-term loans to third parties	586,439	498,562	128,430	128,900
<u>Less</u> Loss allowance	(23,894)	-	(23,894)	-
Short-term loans to third parties - net	<u>562,545</u>	<u>498,562</u>	<u>104,536</u>	<u>128,900</u>

- The Company provided loan to a third party for project development in the Republic of Korea amounting to US Dollar 3.50 million (equivalent to Baht 104.54 million). The loan is secured by common shares of a subsidiary of the borrower, bears interest rate at fixed rate per annum and due for repayment within one year.
- The Company transferred advance for project development in the Republic of the Philippines to short-term loan amounting to US Dollar 0.80 million (equivalent to Baht 23.89 million). The loan is unsecured, bears interest rate at MLR minus certain margin per annum and due for repayment within one year. During 2020, the Company provided full allowance for loss of the loan including all associated accrued interest (Note 12).
- A subsidiary provided loan to a third party for project development in the Republic of Korea amounting to US Dollar 15.28 million (equivalent to Baht 458.00 million). The loan is unsecured, bears interest rate at fixed rate per annum and due for repayment within one year.

The carrying amounts of short-term loans to third parties approximate their fair values as the effect of discounted cash flows is insignificant.

15 Spare parts and supplies, net

	Consolidated financial statements	
	2020 Baht '000	2019 Baht '000
Fuel	498	657
Spare parts and supplies	1,300,213	1,189,312
Spare parts and supplies in transit	-	1,365
	1,300,711	1,191,334
<u>Less</u> Allowance for slow-moving	(267,753)	(222,680)
	<u>1,032,958</u>	<u>968,654</u>

16 Other current assets

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Withholding tax deducted at sources	38,511	48,356	7,535	12,830
Refundable value added tax	765,239	853,401	94,975	30,618
Undue input value added tax	17,006	16,516	702	1,280
Others	2,002	1,990	-	-
	<u>822,758</u>	<u>920,263</u>	<u>103,212</u>	<u>44,728</u>

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17 Investments in subsidiaries

As at 31 December, the subsidiaries included in consolidated financial statement are listed below.

Name of entity	Place of business/ Country of incorporation	Nature of business	Proportion of equity interests held by parent (%)		Effective proportion of equity interests held by the Group (%)		Effective proportion of equity interests held by non-controlling interests (%)	
			2020	2019	2020	2019	2020	2019
Amata B.Grimm Power Limited with subsidiaries as follows:	Thailand	Investing in electric power business	51.20	51.20	51.20	51.20	48.80	48.80
- Amata B.Grimm Power Holding Limited	Thailand	Investing in electric power business	-	-	51.19	51.19	48.81	48.81
- Amata B.Grimm Power 1 Limited	Thailand	Electricity generating	-	-	50.69	50.69	49.31	49.31
- Amata B.Grimm Power 2 Limited	Thailand	Electricity generating	-	-	51.20	51.20	48.80	48.80
- Amata B.Grimm Power 3 Limited	Thailand	Electricity generating	30.00	30.00	60.72	60.72	39.28	39.28
- Amata B.Grimm Power 4 Limited	Thailand	Electricity generating	29.88	29.88	55.48	55.48	44.52	44.52
- Amata B.Grimm Power 5 Limited	Thailand	Electricity generating	29.88	29.88	55.48	55.48	44.52	44.52
- Amata B.Grimm Power (Rayong) 1 Limited	Thailand	Electricity generating	30.00	30.00	61.74	61.74	38.26	38.26
- Amata B.Grimm Power (Rayong) 2 Limited	Thailand	Electricity generating	30.00	30.00	61.74	61.74	38.26	38.26
- Amata B.Grimm Power (Rayong) 3 Limited	Thailand	Electricity generating	29.88	29.88	55.48	55.48	44.52	44.52
- Amata B.Grimm Power (Rayong) 4 Limited	Thailand	Electricity generating	29.88	29.88	55.48	55.48	44.52	44.52
- Amata B.Grimm Power (Rayong) 5 Limited	Thailand	Electricity generating	29.88	29.88	55.48	55.48	44.52	44.52
- Amata Power (Bien Hoa) Limited (Amata B.Grimm Power Limited holds 60% equity interests)	Vietnam	Electricity generating	-	-	30.72	30.72	69.28	69.28
- Amata Power (Rayong) Limited	Thailand	Electricity generating (dormant)	-	-	51.19	51.19	48.81	48.81
- Amata B.Grimm Power Service Limited	Thailand	Operation and maintenance service (dormant)	-	-	51.19	51.19	48.81	48.81
- Amata B.Grimm Power SPV 1 Limited	Thailand	Debentures Issuing	-	-	61.40	61.40	38.60	38.60

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Name of entity	Place of business/ Country of incorporation	Nature of business	Proportion of equity interests held by parent (%)		Effective proportion of equity interests held by the Group (%)		Effective proportion of equity interests held by non-controlling interests (%)	
			2020	2019	2020	2019	2020	2019
B.Grimm Power Holding (Laem Chabang) Limited with subsidiaries as follows:	Thailand	Investing in electric power business	99.97	99.97	99.97	99.97	0.03	0.03
- B.Grimm Power (Laem Chabang) 1 Limited	Thailand	Electricity generating	-	-	99.96	99.96	0.04	0.04
- B.Grimm Power (Laem Chabang) 2 Limited	Thailand	Electricity generating	-	-	99.96	99.96	0.04	0.04
- B.Grimm Power Service (Laem Chabang) Limited with a subsidiary as follows:	Thailand	Operation and maintenance service (dormant)	-	-	99.96	99.96	0.04	0.04
- B.Grimm Power (AIE-MTP) Limited (formerly Glow SPP1 Company Limited) (Note 41)	Thailand	Electricity generating	-	-	69.97	74.97	30.03	25.03
B.Grimm Power (Lao) Company Limited with subsidiaries as follows:	Lao PDR	Investing in electric power business	100.00	100.00	100.00	100.00	-	-
- Xenamnoy and Xekatom Hydropower Company Limited	Lao PDR	Electricity generating from hydropower	-	-	70.00	70.00	30.00	30.00
- Nam Che 1 Hydropower Company Limited	Lao PDR	Electricity generating from hydropower	-	-	72.00	72.00	28.00	28.00
- Nam Khao Hydropower Company Limited	Lao PDR	Electricity generating from hydropower (has not yet commenced operation)	-	-	72.00	72.00	28.00	28.00
- Tadsakhoi Power Company Limited	Lao PDR	Electricity generating from hydropower (has not yet commenced operation)	-	-	72.00	72.00	28.00	28.00
B.Grimm BIP Power 1 Limited	Thailand	Electricity generating	74.00	74.00	74.00	74.00	26.00	26.00
B.Grimm BIP Power 2 Limited	Thailand	Electricity generating	74.00	74.00	74.00	74.00	26.00	26.00
B.Grimm Power (WHA) 1 Limited	Thailand	Electricity generating	74.99	74.99	74.99	74.99	25.01	25.01
B.Grimm Power (Bowin) 2 Limited	Thailand	Electricity generating (has not yet commenced operation)	100.00	100.00	100.00	100.00	-	-
B.Grimm Power (Ratchaburi) 1 Limited	Thailand	Electricity generating (has not yet commenced operation)	100.00	100.00	100.00	100.00	-	-
B.Grimm Power (Ratchaburi) 2 Limited	Thailand	Electricity generating (has not yet commenced operation)	100.00	100.00	100.00	100.00	-	-

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Name of entity	Place of business/ Country of incorporation	Nature of business	Proportion of equity interests held by parent (%)		Effective proportion of equity interests held by the Group (%)		Effective proportion of equity interests held by non-controlling interests (%)	
			2020	2019	2020	2019	2020	2019
B.Grimm Renewable Power 1 Limited with subsidiaries as follows:	Thailand	Investing in electric power business	91.31	91.31	99.97	99.97	0.03	0.03
- Viet Thai Solar Limited Liability Company (formerly Viet Thai Solar Joint Stock Company) with a subsidiary as follows:	Vietnam	Investing in electric power business	-	-	99.97	99.97	0.03	0.03
- Dau Tieng Tay Ninh Energy Joint Stock Company	Vietnam	Electricity generating from solar power	-	-	54.98	54.98	45.02	45.02
B.Grimm Renewable Power 2 Limited with a subsidiary as follows:	Thailand	Investing in electric power business	91.31	91.31	99.97	99.97	0.03	0.03
- Phu Yen TTP Joint Stock Company	Vietnam	Electricity generating from solar power	-	-	79.98	79.98	20.02	20.02
B.Grimm Power Smart Solution Limited	Thailand	Solar power plant project management (commenced operation in 2020)	91.31	91.31	99.97	99.97	0.03	0.03
B.Grimm LNG Limited	Thailand	Natural gas generating and distributing (has not yet commenced operation)	91.31	91.31	99.97	99.97	0.03	0.03
Thai Wind Power (Mukdahan) Limited	Thailand	Investing in electric power business	70.00	70.00	70.00	70.00	30.00	30.00

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Name of entity	Place of business/ Country of incorporation	Nature of business	Proportion of equity interests held by parent (%)		Effective proportion of equity interests held by the Group (%)		Effective proportion of equity interests held by non-controlling interests (%)	
			2020	2019	2020	2019	2020	2019
B.Grimm Solar Power 1 Limited	Thailand	Investing in electric power business and electricity generating from solar power	100.00	100.00	100.00	100.00	-	-
with subsidiaries as follows:								
- Sisophon Clean Power Co., Ltd.	Cambodia	Land development for power plant project (commenced operation in 2020)	-	-	100.00	100.00	-	-
- Ray Power Supply Co., Ltd.	Cambodia	Electricity generating from solar power (commenced operation in 2020)	-	-	100.00	100.00	-	-
- B.Grimm Solar Power (Bamnet Narong) Limited	Thailand	Electricity generating from solar power (has not yet commenced operation)	-	-	100.00	100.00	-	-
- B.Grimm Solar Power (Cha Am) Limited	Thailand	Electricity generating from solar power (has not yet commenced operation)	-	-	100.00	100.00	-	-
- B.Grimm Solar Power (Chai Badan) Limited	Thailand	Electricity generating from solar power	-	-	100.00	100.00	-	-
- B.Grimm Solar Power (Chon Daen) Limited	Thailand	Electricity generating from solar power	-	-	100.00	100.00	-	-
- B.Grimm Solar Power Rooftop Limited	Thailand	Electricity generating from solar rooftop	-	-	99.99	99.99	0.01	0.01
with a subsidiary as follows:								
- B.Grimm Solar Power, Inc.	The Republic of the Philippines	Electricity generating from solar power (construction in progress)	-	-	99.99	99.99	0.01	0.01
- B.Grimm Solar Power (Sap Yai) Limited	Thailand	Electricity generating from solar power (has not yet commenced operation)	-	-	51.00	51.00	49.00	49.00
- B.Grimm Solar Power (Si Boon Rueang) Limited	Thailand	Electricity generating from solar power (has not yet commenced operation)	-	-	100.00	100.00	-	-
- B.Grimm Solar Power (Wanon Niwat) Limited	Thailand	Electricity generating from solar power (has not yet commenced operation)	-	-	100.00	100.00	-	-
- B.Grimm Solar Power (Yang Talat) Limited	Thailand	Electricity generating from solar power (has not yet commenced operation)	-	-	100.00	100.00	-	-

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Name of entity	Place of business/ Country of incorporation	Nature of business	Proportion of equity interests held by parent (%)		Effective proportion of equity interests held by the Group (%)		Effective proportion of equity interests held by non-controlling interests (%)	
			2020	2019	2020	2019	2020	2019
B.Grimm Solar Power (Sakaeo) 1 Limited	Thailand	Electricity generating from solar power	99.99	99.99	99.99	99.99	0.01	0.01
B.Grimm Power Service Limited	Thailand	Operation and maintenance service	100.00	100.00	100.00	100.00	-	-
Bothong Wind Farm Limited	Thailand	Electricity generating from wind power (construction in progress)	74.00	74.00	92.20	92.20	7.80	7.80
B.Grimm Power (U-Tapao) Limited (formerly B.Grimm Power (Chonburi) 1 Limited)	Thailand	Electricity generating (has not yet commenced operation)	99.97	99.97	99.97	99.97	0.03	0.03
B.Grimm Power (Chonburi) 2 Limited	Thailand	Electricity generating (has not yet commenced operation)	99.97	99.97	99.97	99.97	0.03	0.03
with a subsidiary as follows:								
- Angthong Power Co., Ltd. (Note 41)	Thailand	Electricity generating	-	-	69.98	-	30.02	-
B.Grimm Power (Cambodia) Co., Ltd.	Cambodia	Investing in electric power business	100.00	100.00	100.00	100.00	-	-
B.Grimm Yanhee Solar Power Limited	Thailand	Electricity generating from solar power	99.99	99.99	99.99	99.99	0.01	0.01
B.Grimm Power Korea Limited	The Republic of Korea	Investing in electric power business	100.00	100.00	100.00	100.00	-	-
B.Grimm Power (Malaysia) Sdn. Bhd.	Malaysia	Investing in electric power business	100.00	100.00	100.00	100.00	-	-

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Under the terms and conditions of long-term credit facility agreements of subsidiaries, the Group pledged all ordinary shares of 11 subsidiaries as collateral for the long-term borrowings (2019: 9 subsidiaries).

The total non-controlling interests as at 31 December 2020 is Baht 11,833.81 million (2019: Baht 10,532.86 million) of which Baht 6,112.13 million belongs to Amata B.Grimm Power Limited (2019: Baht 6,312.13 million). The non-controlling interests in respect of the others is not material.

Summarised financial information of a subsidiary with material non-controlling interests

The summary financial information of subsidiary that non-controlling interests are significant to the Group are summarised below. The amounts disclosed for each subsidiary is the amount before the inter-company elimination.

Summarised statement of financial position as at 31 December:

	Amata B.Grimm Power Limited (consolidated financial statements)	
	2020	2019
	Baht '000	Baht '000
Current:		
Assets	12,593,225	13,570,117
Liabilities	(6,184,954)	(6,255,182)
Total net current assets	6,408,271	7,314,935
Non-current:		
Assets	38,633,059	37,868,484
Liabilities	(31,027,532)	(30,740,970)
Total net non-current assets	7,605,527	7,127,514
Net assets	14,013,798	14,442,449
Non-controlling interests	5,512,475	6,252,674

Summarised statement of comprehensive income for the year ended 31 December:

	Amata B.Grimm Power Limited (consolidated financial statements)	
	2020	2019
	Baht '000	Baht '000
Revenue	25,528,171	27,872,451
Other income	55,329	117,004
Profit before income tax	2,456,653	2,729,633
Income tax	(166,776)	(139,401)
Post-tax profit from continuing operations	2,289,877	2,590,232
Other comprehensive income (expense)	1,143	(76,625)
Total comprehensive income	2,291,020	2,513,607
Profit attributable to non-controlling interests	676,486	1,089,010
Dividends paid to non-controlling interests	595,849	676,313

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Summarised statement of cash flows for the year ended 31 December:

	Amata B.Grimm Power Limited (consolidated financial statements)	
	2020 Baht '000	2019 Baht '000
Cash generated from operations	6,765,857	6,035,702
Interest paid	(1,587,713)	(1,834,375)
Income tax paid	(194,225)	(176,730)
Net cash generated from operating activities	4,983,919	4,024,597
Net cash generated from (used in) investing activities	(2,190,277)	358,508
Net cash used in financing activities	(2,344,095)	(2,676,153)
Net increase in cash and cash equivalents	449,547	1,706,952
Cash and cash equivalents at beginning of the year	7,195,325	5,517,413
Gain (loss) on exchange differences	1,327	(29,040)
Cash and cash equivalents at end of the year	7,646,199	7,195,325

Movements of investments

The movements of investments in subsidiaries during the year ended 31 December are as follows:

	Separate financial statements	
	2020 Baht '000	2019 Baht '000
Opening net book value	9,553,812	9,522,638
Additional investments	23,310	11,395
Capital contribution under employee benefits scheme of subsidiaries	20,567	19,779
Closing net book value	9,597,689	9,553,812

The significant movements of investments in subsidiaries are as follows:

2020

(a) Investments by the Company

Bo Thong Wind Farm Company Limited

During the first quarter of 2020, Bo Thong Wind Farm Company Limited, a direct subsidiary, increased authorised share capital from Baht 300 million to Baht 426 million by issuing 12,600,000 new ordinary shares with a par value of Baht 10 each. The Company subscribed and paid for 9,324,000 shares at Baht 2.50 per share, totalling Baht 23.31 million to maintain the same proportion of holdings.

(b) Investments by subsidiaries

Angthong Power Co., Ltd. ("ATP")

During the first quarter of 2020, B.Grimm Power (Chonburi) 2 Limited, a direct subsidiary, acquired 70% equity interest in ATP's ordinary shares, for a consideration of Baht 2,520 million. Details of the acquisition are disclosed in Note 41.

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B.Grimm Power (Laem Chabang) 1 Limited (“BPLC1”)

During the third quarter of 2020, BPLC1, a subsidiary of B.Grimm Power Holding (Laem Chabang) Limited (“BPLCH”), increased authorised share capital from Baht 670 million to Baht 1,170 million by issuing 50,000,000 new ordinary shares with a par value of Baht 10 each. BPLCH subscribed and paid for 50,000,000 shares at Baht 2.50 per share, totalling Baht 125 million to maintain the same proportion of holdings.

Phu Yen TTP Joint Stock Company (“PYT”)

During the third quarter of 2020, PYT, a subsidiary of B.Grimm Renewable Power 2 Limited (“BGRP2”), increased authorised share capital from Vietnamese Dong 1,000,000 million to Vietnamese Dong 1,153,120 million by issuing 15,312,000 new ordinary shares with a par value of Vietnamese Dong 10,000 each. BGRP2 subscribed 12,249,600 shares, totalling Vietnamese Dong 122,496 million (equivalent to Baht 162 million) to maintain the same proportion of holdings.

B.Grimm Power (AIE-MTP) Limited (“BPAM”) (formerly Glow SPP1 Company Limited)

On 12 June 2020, Glow SPP1 Company Limited, a subsidiary of B.Grimm Power Service (Laem Chabang) Limited (“BPLCS”), registered to change the company’s name with the Ministry of Commerce to be B.Grimm Power (AIE-MTP) Limited.

On 30 September 2020, BPLCS disposed 5% interests held in BPAM. Details are disclosed in Note 41.

During the fourth quarter of 2020, BPAM increased authorised share capital from Baht 2,150 million to Baht 3,250 million by issuing 110,000,000 new ordinary shares with a par value of Baht 10 each. BPLCS subscribed and paid for 77,000,000 shares at Baht 7.50 per share, totalling Baht 577.50 million to maintain the same proportion of holdings.

Ray Power Supply Co., Ltd. (“Ray Power”)

During the third quarter of 2020, Ray Power, a subsidiary of B.Grimm Solar Power 1 Limited (“BGSP1”), increased authorised share capital from US Dollar 5,000 to US Dollar 1,000,000. BGSP1 subscribed for all increased share capital totalling US Dollar 995,000 (equivalent to Baht 29.85 million) to maintain the same proportion of holdings.

2019

a) Investments of the Company

B.Grimm Power Korea Limited (“BGPKL”)

During the first quarter of 2019, BGPKL, a direct subsidiary, was established in the Republic of Korea to invest in electric power business. BGPKL has registered share capital of Korean Won 300 million (equivalent to Baht 8.46 million). The Company owns 100% interest in BGPKL.

B.Grimm Power (Malaysia) Sdn. Bhd. (“BGPMA”)

During the second quarter of 2019, BGPMA, a direct subsidiary, was established in Malaysia to invest in electric power business. BGPMA has registered share capital of Malaysian Ringgit 1 (equivalent to Baht 7.70). The Company owns 100% interest in BGPMA.

B.Grimm Power Smart Solution Limited (“BGPSS”) (formerly B.Grimm Renewable Power 3 Limited)

During the third quarter of 2019, B.Grimm Renewable Power 3 Limited, a direct subsidiary, registered to change the company’s name with the Ministry of Commerce to be B.Grimm Power Smart Solution Limited.

During the fourth quarter of 2019, BGPSS called for additional paid-up share capital, and the Company paid for the called-up to maintain the same proportion of holdings, totalling Baht 0.68 million.

B.Grimm LNG Limited (“BGLNG”) (formerly B.Grimm Renewable Power 4 Limited)

During the third quarter of 2019, B.Grimm Renewable Power 4 Limited, a direct subsidiary, registered to change the company’s name with the Ministry of Commerce to be B.Grimm LNG Limited.

BGLNG increased authorised share capital from Baht 1 million to Baht 10 million by issuing 90,000 new ordinary shares with a par value of Baht 100 each. The Company paid-up for 90,000 shares at Baht 25 per share, totalling Baht 2.25 million.

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b) Investments of subsidiaries

B.Grimm Power (AIE-MTP) Limited (“BPAM”) (formerly “Glow SPP1 Company Limited”)

During the first quarter of 2019, BPLCS, an indirect subsidiary, acquired 100% equity interest in BPAM, for a consideration of Baht 3,300 million. Subsequently, during the fourth quarter of 2019, the subsidiary disposed 25% interest in BPAM for a consideration of Baht 825 million. Details of the acquisition and disposal are disclosed in Note 41.

B.Grimm Solar Power Rooftop Limited (“BSPR”)

During the first quarter of 2019, BSPR, a subsidiary of B.Grimm Solar Power 1 Limited (“BGSP1”), increased authorised share capital from Baht 10 million to Baht 251 million by issuing 2,410,000 new ordinary shares with a par value of Baht 100 each. BGSP1 paid-up for 2,410,000 shares at Baht 100 per share, totalling Baht 241 million. In addition, BSPR called for additional paid-up share capital from the existing 100,000 ordinary shares and BGSP1 paid for the called-up to maintain the same proportion of holdings, totalling Baht 6.5 million.

Dau Tieng Tay Ninh Energy Joint Stock Company (“DTE”)

During the first quarter of 2019, DTE, a subsidiary of Viet Thai Solar Limited Liability Company (“VTS”), called for additional paid-up share capital and VTS paid for the called-up to maintain the same proportion of holdings, totalling VND 70,780 million.

B.Grimm Solar Power, Inc. (“BGSPI”)

During the third quarter of 2019, BGSPI, a subsidiary of BSPR, was established in the Republic of the Philippines to operate in electricity generating business. BGSPI has registered share capital of Philippine Peso 25 million (equivalent to Baht 15 million). BSPR owns 100% interest in BGSPI.

Tadsakhoi Power Company Limited (“TSK”)

During the third quarter of 2019, TSK, a subsidiary of B.Grimm Power (Lao) Company Limited (“BGPL”), was established in Lao PDR to operate in electricity generating from hydropower. TSK has registered share capital of Kib 146.20 billion (equivalent to Baht 512.62 million) BGPL owns 70% interest in TSK. As at 31 December 2019, BGPL has not yet paid for the investment.

Sisophon Clean Power Co., Ltd. (“SSCP”)

During the fourth quarter of 2019, SSCP, a subsidiary of BGSP1, was established in Cambodia to develop land for future power plant projects. SSCP has registered share capital of Cambodian Riel 134 million (equivalent to Baht 1 million). BGSP1 owns 100% interest in SSCP.

Ray Power Supply Co., Ltd. (“Ray Power”)

During the fourth quarter of 2019, BGSP1 acquired 100% equity interest in Ray Power, a registered company, which operates solar power plant project in Cambodia, for a consideration of US Dollar 0.3 million (equivalent to Baht 9.15 million). As a result, Ray Power became subsidiary of the Group. The management of the Group considered the acquisition in accordance with the concepts underlying the procedures used in accounting for the acquisition of subsidiary under TFRS 3 - Business Combinations and concluded that the acquisition of this investment is asset acquisition. The difference between consideration paid and net assets acquired was considered as value of “right in power purchase agreement” (include in intangible assets).

The following table summarises the consideration paid for Ray Power and the amounts of the assets acquired and liabilities assumed recognised at the acquisition date.

Consideration paid on 25 December 2019:

	<u>Baht '000</u>
Cash	9,145

Recognised amounts of identifiable assets acquired and liabilities assumed:

Cash and cash equivalent	151
Right in power purchase agreement	8,994
Acquired net assets	<u>9,145</u>

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18 Investments in associate and joint ventures

The amounts recognised in the statements of financial position are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Associate	564,929	816,249	-	-
Joint ventures	500,328	714,294	533,070	522,376

The share of profit recognised in the statements of comprehensive income is as follows:

	Consolidated financial statements	
	2020 Baht '000	2019 Baht '000
Associate	24,468	54,281
Joint ventures	33,874	47,049
	<u>58,342</u>	<u>101,330</u>

(a) Investment in associate

Nature of investment in associate as at 31 December:

Name of entity	Place of business/ Country of incorporation	% of ownership interest		Nature of the relationship	Measurement method
		2020	2019		
Amata B.Grimm Power Power Plant Infrastructure Fund	Thailand	29.97	29.97	Note 1	Equity method

Note 1: Amata B.Grimm Power Power Plant Infrastructure Fund is a power plant infrastructure fund. The Group indirectly held the investment units through Amata B.Grimm Power Limited, which is a subsidiary.

There are no contingent liabilities relating to the Group's interest in the associate.

The movements of investment in associate during the year ended 31 December are as follows:

	Consolidated financial statements	
	2020 Baht '000	2019 Baht '000
Opening net book value	816,249	1,148,345
Share of profit from associate	24,468	54,281
Capital reduction	(234,790)	(299,237)
Dividends received	(40,998)	(87,140)
Closing net book value	<u>564,929</u>	<u>816,249</u>

As at 31 December 2020, the fair value of the Group's interest in Amata B.Grimm Power Power Plant Infrastructure Fund, which is a listed fund in Stock Exchange of Thailand, is Baht 532.27 million (2019: Baht 823.58 million). The fair values are within level 1 of the fair value hierarchy.

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(b) Investments in joint ventures

The joint ventures listed below have ordinary shares which are directly held by the Group.

Nature of investments in joint ventures as at 31 December:

Name of entity	Place of Business/ Country of incorporation	% of ownership interest		Nature of the business
		2020	2019	
<u>Joint ventures of the Company</u>				
B.Grimm Sena Solar Power Limited	Thailand	49.00	49.00	Investing in business of generating and distribution of electricity from solar power
with subsidiaries as follows:				
- Solarwa Company Limited				
- TPS Commercial Company Limited				
B.Grimm Power (Poipet) Co.,Ltd.	Cambodia	55.00	55.00	Operating in business of distribution of electricity
Progress Interchem (Thailand) Limited	Thailand	48.00	48.00	Operating in business of generating and distribution of electricity from industrial wastes
<u>Joint ventures of B.Grimm Solar Power Rooftop Limited</u>				
B.Grimm S.Napa Solar Power Limited	Thailand	51.00	51.00	Operating in business of generating and distribution of electricity from solar rooftop
B.Grimm Spectrum Solar Power Limited	Thailand	70.00	70.00	Operating in business of generating and distribution of electricity from solar rooftop

Investments in joint ventures are measured using equity method.

The movements of investments in joint ventures during the year ended 31 December are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Opening net book value	714,294	653,877	522,376	509,008
Impact of first-time adoption of new financial reporting standards (Note 4)	(39,438)	-	-	-
Additions	10,694	13,368	10,694	13,368
Share of profit from joint ventures	33,874	47,049	-	-
Share of other comprehensive expenses	(12,844)	-	-	-
Dividends received	(206,252)	-	-	-
Closing net book value	500,328	714,294	533,070	522,376

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The significant movements of investments in joint ventures are as follows:

2020

Progress Interchem (Thailand) Limited (“PIC”)

During the fourth quarter of 2020, PIC, a joint venture of the Company, called for additional share paid-up capital and the Company paid for the called-up to maintain the same proportion of holdings, totalling Baht 10.69 million.

2019

Progress Interchem (Thailand) Limited (“PIC”)

During the third quarter of 2019, PIC, a joint venture of the Company, called for additional share paid-up capital and the Company paid for the called-up to maintain the same proportion of holdings, totalling Baht 13.37 million.

Commitments and contingent liabilities in respect of joint ventures:

As at 31 December, the joint ventures of the Group have commitments which have not been recognised in the financial statements as follows:

	2020	2019
	Baht '000	Baht '000
Capital commitments	501,125	573,382

There are no contingent liabilities relating to the Group’s interest in the joint ventures.

19 Investment property

There was no movement in investment property during 2020 and 2019.

The investment property of the Group is land held for a currently undetermined future use. The Group has not determined whether it will be held as owner-occupied property or for short-term capital appreciation.

At 31 December 2020, fair value of investment property were Baht 8.79 million (2019: Baht 15.07 million) which was appraised by comparing the selling price of comparable land in term of physical conditions and location, with the investment property of the Group and has been made nearly to the date of valuation.

The fair value of the investment property is based on the selling price comparison approach using significant observable inputs. The fair value is within level 2 of the fair value hierarchy.

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20 Property, plant and equipment, net

Consolidated financial statements									
	Land Baht '000	Land improvement Baht '000	Power plant, substation, transmission system and equipment Baht '000	Office equipment, furniture and computer Baht '000	Building and structure Baht '000	Motor vehicles Baht '000	Construction in progress Baht '000	Spare parts Baht '000	Total Baht '000
At 1 January 2019									
Cost	2,277,243	506,340	71,459,498	353,698	888,901	67,490	6,457,327	370,595	82,381,092
Less Accumulated depreciation	-	(73,832)	(19,467,045)	(181,317)	(250,088)	(37,417)	-	-	(20,009,699)
Less Provision for impairment	-	-	(140)	-	-	-	-	(20,873)	(21,013)
Net book value	2,277,243	432,508	51,992,313	172,381	638,813	30,073	6,457,327	349,722	62,350,380
For the year ended 31 December 2019									
Opening net book value	2,277,243	432,508	51,992,313	172,381	638,813	30,073	6,457,327	349,722	62,350,380
Additions	304,246	54,935	10,873,926	75,851	451,334	8,284	1,023,830	14,764	12,807,170
Additions from business combination (Note 41)	177,751	-	1,773,657	1,954	16,811	-	410	5,953	1,976,536
Disposal/ write-off, net	-	-	(9,830)	(189)	-	(1,829)	-	-	(11,848)
Transfer in (out)	-	1,095	6,037,705	17,934	63,710	-	(6,185,116)	(23,259)	(87,931)
Impairment charge	-	-	-	-	-	-	-	(11,325)	(11,325)
Exchange differences	(1)	(1,310)	(430,185)	(730)	(11,613)	(1,267)	(287,182)	(60)	(732,348)
Depreciation charge	-	(25,334)	(4,005,692)	(61,882)	(58,276)	(7,827)	-	-	(4,159,011)
Closing net book value	2,759,239	461,894	66,231,894	205,319	1,100,779	27,434	1,009,269	335,795	72,131,623
At 31 December 2019									
Cost	2,759,239	561,937	94,104,221	460,662	1,421,266	67,281	1,009,269	367,993	100,751,868
Less Accumulated depreciation	-	(100,043)	(27,872,187)	(255,343)	(320,487)	(39,847)	-	-	(28,587,907)
Less Provision for impairment	-	-	(140)	-	-	-	-	(32,198)	(32,338)
Net book value	2,759,239	461,894	66,231,894	205,319	1,100,779	27,434	1,009,269	335,795	72,131,623

B.Grimm Power Public Company Limited
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	Consolidated financial statements								
	Land Baht '000	Land improvement Baht '000	Power plant, substation, transmission system and equipment Baht '000	Office equipment, furniture and computer Baht '000	Building and structure Baht '000	Motor vehicles Baht '000	Construction in progress Baht '000	Spare parts Baht '000	Total Baht '000
For the year ended 31 December 2020									
Opening net book value	2,759,239	461,894	66,231,894	205,319	1,100,779	27,434	1,009,269	335,795	72,131,623
Additions	83,851	1,097	1,773,258	60,193	85,304	13,786	6,310,211	22,536	8,350,236
Additions from business combination (Note 41)	103,500	1,515	4,291,829	2,701	131,492	314	65	-	4,531,416
Disposal/ write-off, net	-	-	(23,951)	(2,488)	-	(2,932)	(24,226)	-	(53,597)
Transfer in (out)	413,749	-	186,704	4,506	263,114	463	(647,584)	(4,563)	216,389
Impairment charge	-	-	-	-	-	-	-	(12,888)	(12,888)
Exchange differences	(9,147)	(38)	(54,509)	181	(10,577)	154	10,792	(576)	(63,720)
Depreciation charge	-	(27,643)	(4,601,866)	(74,039)	(86,253)	(9,420)	-	-	(4,799,221)
Closing net book value	3,351,192	436,825	67,803,359	196,373	1,483,859	29,799	6,658,527	340,304	80,300,238
At 31 December 2020									
Cost	3,351,192	564,965	101,013,879	515,701	1,902,929	76,878	6,658,527	385,390	114,469,461
Less Accumulated depreciation	-	(128,140)	(33,210,380)	(319,328)	(419,070)	(47,079)	-	-	(34,123,997)
Less Provision for impairment	-	-	(140)	-	-	-	-	(45,086)	(45,226)
Net book value	3,351,192	436,825	67,803,359	196,373	1,483,859	29,799	6,658,527	340,304	80,300,238

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	Land improvement Baht '000	Power plant, substation, transmission system and equipment Baht '000	Office equipment, furniture and computer Baht '000	Building and structure Baht '000	Motor vehicles Baht '000	Construction in progress Baht '000	Total Baht '000
At 1 January 2019							
Cost	19,997	607,678	62,639	-	1,230	-	691,544
<u>Less</u> Accumulated depreciation	(11)	(411)	(14,918)	-	(20)	-	(15,360)
Net book value	<u>19,986</u>	<u>607,267</u>	<u>47,721</u>	<u>-</u>	<u>1,210</u>	<u>-</u>	<u>676,184</u>
For the year ended 31 December 2019							
Opening net book value	19,986	607,267	47,721	-	1,210	-	676,184
Additions	159	14,577	12,126	1,280	828	13,067	42,037
Transfer in (out)	-	1,817	10,759	-	-	(12,576)	-
Depreciation charge	(806)	(27,532)	(15,228)	(61)	(301)	-	(43,928)
Closing net book value	<u>19,339</u>	<u>596,129</u>	<u>55,378</u>	<u>1,219</u>	<u>1,737</u>	<u>491</u>	<u>674,293</u>
At 31 December 2019							
Cost	20,156	624,072	85,524	1,280	2,058	491	733,581
<u>Less</u> Accumulated depreciation	(817)	(27,943)	(30,146)	(61)	(321)	-	(59,288)
Net book value	<u>19,339</u>	<u>596,129</u>	<u>55,378</u>	<u>1,219</u>	<u>1,737</u>	<u>491</u>	<u>674,293</u>
For the year ended 31 December 2020							
Opening net book value	19,339	596,129	55,378	1,219	1,737	491	674,293
Additions	-	241	25,488	-	956	-	26,685
Disposal/ write-off, net	-	-	(2,091)	-	(739)	-	(2,830)
Transfer in (out)	-	-	491	-	-	(491)	-
Depreciation charge	(806)	(27,683)	(20,514)	(73)	(503)	-	(49,579)
Closing net book value	<u>18,533</u>	<u>568,687</u>	<u>58,752</u>	<u>1,146</u>	<u>1,451</u>	<u>-</u>	<u>648,569</u>
At 31 December 2020							
Cost	20,156	624,313	109,295	1,280	1,784	-	756,828
<u>Less</u> Accumulated depreciation	(1,623)	(55,626)	(50,543)	(134)	(333)	-	(108,259)
Net book value	<u>18,533</u>	<u>568,687</u>	<u>58,752</u>	<u>1,146</u>	<u>1,451</u>	<u>-</u>	<u>648,569</u>

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Depreciation was charged to profit or loss as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Cost of sales	4,733,535	4,102,551	28,564	28,400
Administrative expenses	65,686	56,460	21,015	15,528
	<u>4,799,221</u>	<u>4,159,011</u>	<u>49,579</u>	<u>43,928</u>

Property, plant and equipment with the net book value amounting to Baht 27,756.40 million (2019: Baht 29,458.28 million), was pledged as collateral for borrowings from financial institutions (Note 27).

Borrowing costs of Baht 74.18 million (2019: Baht 9.65 million), arising from financing specifically entered into for the construction of power plants were capitalised to power plant under construction in the consolidated financial statements. The Group's interest capitalisation rates were between 2.26% to 5.25% per annum (2019: between 3.83% to 3.91% per annum), representing the actual borrowing costs for the projects.

Depreciation of right-of-use assets amounting to Baht 3.12 million and interest on lease liabilities amounting to Baht 4.55 million were capitalised to power plant under construction in the consolidated financial statements. (2019: Nil)

21 Right-of-use assets

	Consolidated financial statements			
	Properties Baht '000	Equipment Baht '000	Motor vehicles Baht '000	Total Baht '000
Balance as at 1 January 2020 (Note 4)	655,389	59,386	53,030	767,805
Additions	422,112	3,791	52,086	477,989
Additions from business combination (Note 41)	-	-	812	812
Lease modifications	10,626	-	-	10,626
Lease termination	-	-	(1,515)	(1,515)
Exchange differences	337	(151)	63	249
Depreciation	(39,055)	(2,732)	(38,411)	(80,198)
Balance as at 31 December 2020	<u>1,049,409</u>	<u>60,294</u>	<u>66,065</u>	<u>1,175,768</u>

	Separate financial statements		
	Properties Baht '000	Motor vehicles Baht '000	Total Baht '000
Balance as at 1 January 2020 (Note 4)	-	15,144	15,144
Additions	132,171	3,878	136,049
Lease modification	2,000	-	2,000
Transfer lease contracts to subsidiary	(21,066)	-	(21,066)
Depreciation	(4,618)	(8,979)	(13,597)
Balance as at 31 December 2020	<u>108,487</u>	<u>10,043</u>	<u>118,530</u>

Depreciation of right-of-use assets amounting to Baht 3.12 million were capitalised to power plant under construction in the consolidated financial statements. (2019: Nil)

The expense relating to leases that not included in the measurement of lease liabilities and right-of-use and cash outflows for leases is as follows:

	Consolidated financial statements	Separate financial statements
	2020 Baht '000	2020 Baht '000
Expense relating to short-term leases	6,898	-
Expense relating to leases of low-value assets	3,853	160
Total cash outflow for leases	<u>298,846</u>	<u>26,088</u>

B.Grimm Power Public Company Limited
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22 Goodwill

	Consolidated financial statements	
	2020	2019
	Baht '000	Baht '000
As 1 January		
Cost	457,192	-
<u>Less</u> Provision for impairment	-	-
Net book value	<u>457,192</u>	<u>-</u>
For the year ended 31 December		
Opening net book value	457,192	-
Business combination (Note 41)	712,711	457,192
Closing net book value	<u>1,169,903</u>	<u>457,192</u>
At 31 December 2020		
Cost	1,169,903	457,192
<u>Less</u> Provision for impairment	-	-
Net book value	<u>1,169,903</u>	<u>457,192</u>

Goodwill is allocated to the Group's cash-generating units (CGUs) identified in electricity generating segment.

A segment-level summary of the goodwill allocation is presented below;

	Consolidated financial statements	
	2020	2019
	Baht '000	Baht '000
Goodwill allocation to;		
B.Grimm Power (AIE-MTP) Limited	457,192	457,192
Angthong Power Co., Ltd.	712,711	-
Total	<u>1,169,903</u>	<u>457,192</u>

Goodwill arose from the acquisition of investment in electricity generating business is tested annually for impairment by comparing the carrying amount to the recoverable amount for each CGU unit which is based on fair value less cost to sell. The calculations use cash flow projections based on financial budget covering the remaining period of power purchase agreements. The cash flow projections are based on the power plant capacity and tariffs stipulated in the power purchase agreements. Discount rates applied range between 6.00% to 6.79% per annum.

The recoverable amount, calculated based on fair value less cost to sell, exceed carrying value. A raise in discount rate to between 8.00% to 10.57% per annum, holding all other variables constant, would make the recoverable amount equals to the carrying value.

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23 Intangible assets, net

	Consolidated financial statements								
	Right to use assets Baht '000	Deferred power plant costs Baht '000	Land use right Baht '000	Right in power purchase agreements Baht '000	Right from service concession arrangements Baht '000	Right in operation and maintenance contracts Baht '000	Computer software Baht '000	Intangible assets in progress Baht '000	Total Baht '000
At 1 January 2019									
Cost	234,923	3,195,241	706,176	4,067,095	3,004,616	21,670	162,550	7,345	11,399,616
<u>Less</u> Accumulated amortisation	(104,115)	(357,861)	(65,355)	(580,014)	(105,421)	(16,607)	(55,534)	-	(1,284,907)
Net book value	130,808	2,837,380	640,821	3,487,081	2,899,195	5,063	107,016	7,345	10,114,709
For the year ended 31 December 2019									
Opening net book value	130,808	2,837,380	640,821	3,487,081	2,899,195	5,063	107,016	7,345	10,114,709
Additions	13,476	1,769	288,044	30,079	360,836	-	17,477	22,227	733,908
Disposal/ write-off, net	-	-	-	-	-	-	(224)	-	(224)
Additions from business combination (Note 41)	12,499	-	-	225,000	-	-	-	-	237,499
Additions from acquisition of subsidiary (Note 17)	-	-	-	8,994	-	-	-	-	8,994
Transfer in (out)	478	-	139,110	-	-	-	32,316	(19,408)	152,496
Exchange differences	(1,697)	(3,893)	(5,291)	(71,691)	(212,551)	-	(428)	-	(295,551)
Amortisation charge	(14,669)	(126,307)	(36,926)	(189,328)	(102,517)	(1,358)	(29,824)	-	(500,929)
Closing net book value	140,895	2,708,949	1,025,758	3,490,135	2,944,963	3,705	126,333	10,164	10,450,902
At 31 December 2019									
Cost	272,735	3,192,817	1,127,815	4,258,603	3,142,492	21,670	209,805	10,164	12,236,101
<u>Less</u> Accumulated amortisation	(131,840)	(483,868)	(102,057)	(768,468)	(197,529)	(17,965)	(83,472)	-	(1,785,199)
Net book value	140,895	2,708,949	1,025,758	3,490,135	2,944,963	3,705	126,333	10,164	10,450,902

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	Consolidated financial statements								
	Right to use assets Baht '000	Deferred power plant costs Baht '000	Land use right Baht '000	Right in power purchase agreements Baht '000	Right from service concession arrangements Baht '000	Right in operation and maintenance contracts Baht '000	Computer software Baht '000	Intangible assets in progress Baht '000	Total Baht '000
For the year ended 31 December 2020									
Opening net book value	140,895	2,708,949	1,025,758	3,490,135	2,944,963	3,705	126,333	10,164	10,450,902
Additions	-	21,322	13,048	148,958	69,085	-	18,930	11,433	282,776
Disposal/ write-off, net	-	-	(381)	-	-	-	-	-	(381)
Additions from business combination (Note 41)	4,947	-	-	1,483,107	-	-	3,190	-	1,491,244
Transfer in (out)	(29,101)	(1,155)	(1,168)	187,762	43,392	-	17,401	(16,967)	200,164
Exchange differences	1,038	(948)	(473)	(16,650)	(10,694)	-	(9)	-	(27,736)
Amortisation charge	(9,684)	(127,291)	(43,685)	(271,018)	(130,450)	(793)	(34,874)	-	(617,795)
Closing net book value	108,095	2,600,877	993,099	5,022,294	2,916,296	2,912	130,971	4,630	11,779,174
At 31 December 2020									
Cost	231,741	3,211,910	1,137,389	6,061,146	3,238,271	21,670	259,730	4,630	14,166,487
Less Accumulated amortisation	(123,646)	(611,033)	(144,290)	(1,038,852)	(321,975)	(18,758)	(128,759)	-	(2,387,313)
Net book value	108,095	2,600,877	993,099	5,022,294	2,916,296	2,912	130,971	4,630	11,779,174

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	Separate financial statements					Total Baht '000
	Right to use assets Baht '000	Land use right Baht '000	Right in power purchase agreements Baht '000	Computer software Baht '000	Computer software under installation Baht '000	
At 1 January 2019						
Cost	11,619	253,273	244,159	100,581	6,404	616,036
<u>Less</u> Accumulated amortisation	(7)	(7,973)	(155)	(25,570)	-	(33,705)
Net book value	11,612	245,300	244,004	75,011	6,404	582,331
For the year ended 31 December 2019						
Opening net book value	11,612	245,300	244,004	75,011	6,404	582,331
Additions	7	175	-	9,856	12,499	22,537
Transfer in (out)	478	-	-	13,717	(14,195)	-
Amortisation charge	(468)	(9,828)	(9,766)	(18,159)	-	(38,221)
Closing net book value	11,629	235,647	234,238	80,425	4,708	566,647
At 31 December 2019						
Cost	12,104	253,448	244,159	124,154	4,708	638,573
<u>Less</u> Accumulated amortisation	(475)	(17,801)	(9,921)	(43,729)	-	(71,926)
Net book value	11,629	235,647	234,238	80,425	4,708	566,647
For the year ended 31 December 2020						
Opening net book value	11,629	235,647	234,238	80,425	4,708	566,647
Additions	-	-	-	6,064	8,385	14,449
Transfer in (out)	-	-	-	8,463	(8,463)	-
Amortisation charge	(485)	(9,823)	(9,766)	(19,679)	-	(39,753)
Closing net book value	11,144	225,824	224,472	75,273	4,630	541,343
At 31 December 2020						
Cost	12,104	253,448	244,159	138,681	4,630	653,022
<u>Less</u> Accumulated amortisation	(960)	(27,624)	(19,687)	(63,408)	-	(111,679)
Net book value	11,144	225,824	224,472	75,273	4,630	541,343

Amortisation was charged to profit or loss as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Cost of sales	582,587	466,756	20,074	20,062
Administrative expenses	35,208	34,173	19,679	18,159
	617,795	500,929	39,753	38,221

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24 Deferred income taxes

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

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Deferred tax assets:				
Deferred tax assets to be recovered within 12 months	(11,071)	1,130	55	10
Deferred tax assets to be recovered more than 12 months	263,646	133,357	9,083	6,417
	<u>252,575</u>	<u>134,487</u>	<u>9,138</u>	<u>6,427</u>
Deferred tax liabilities:				
Deferred tax liabilities to be settled within 12 months	(61,887)	(20,775)	-	-
Deferred tax liabilities to be settled more than 12 months	(319,888)	(182,439)	-	-
	<u>(381,775)</u>	<u>(203,214)</u>	<u>-</u>	<u>-</u>
Deferred tax, net	<u>(129,200)</u>	<u>(68,727)</u>	<u>9,138</u>	<u>6,427</u>

The movements of deferred income taxes during the year are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
At 1 January	(68,727)	24,240	6,427	3,749
Impact of first-time adoption of new financial reporting standards (Note 4)	(2,115)	-	-	-
At 1 January - restated	(70,842)	24,240	6,427	3,749
Charged to profit or loss (Note 37)	78,222	8,415	2,711	911
Charged to other comprehensive income	59,248	8,597	-	1,767
Business combination (Note 41)	(196,118)	(114,605)	-	-
Exchange differences	290	4,626	-	-
At 31 December	<u>(129,200)</u>	<u>(68,727)</u>	<u>9,138</u>	<u>6,427</u>

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The movements in deferred tax assets and liabilities during the year are as follows:

	Consolidated financial statements								
	Mark up margin on property, plant and equipment Baht '000	Tax losses carry forwards Baht '000	Employee benefit obligations Baht '000	Decommissioning cost Baht '000	Depreciation Baht '000	Allowance for slow moving spare parts and supplies Baht '000	Fair value of other non-current assets Baht '000	Hedges reserve (TFRS9) Baht '000	Total Baht '000
Deferred tax assets									
At 1 January 2019	239,165	26,099	22,253	30,614	50,310	21,150	23,556	-	413,147
Charged (credited) to profit or loss (Note 37)	(23,609)	(7,645)	9,309	2,253	14,952	13,826	-	-	9,086
Charged to other comprehensive income	-	-	8,597	-	-	-	-	-	8,597
Business combination	-	-	3,804	-	16,695	354	-	-	20,853
At 31 December 2019	<u>215,556</u>	<u>18,454</u>	<u>43,963</u>	<u>32,867</u>	<u>81,957</u>	<u>35,330</u>	<u>23,556</u>	<u>-</u>	<u>451,683</u>
At 1 January 2020	215,556	18,454	43,963	32,867	81,957	35,330	23,556	-	451,683
Impact of first-time adoption of new financial reporting standards (Note 4)	-	-	-	-	-	-	-	(2,115)	(2,115)
At 1 January - restated	215,556	18,454	43,963	32,867	81,957	35,330	23,556	(2,115)	449,568
Charged (credited) to profit or loss (Note 37)	(601)	1,655	4,354	3,061	16,067	11,177	-	(1,276)	34,437
Charged to other comprehensive income	-	-	-	-	-	-	-	59,248	59,248
Business combination	-	-	789	-	-	-	-	52,714	53,503
Exchange differences	-	9	-	-	-	-	-	-	9
At 31 December 2020	<u>214,955</u>	<u>20,118</u>	<u>49,106</u>	<u>35,928</u>	<u>98,024</u>	<u>46,507</u>	<u>23,556</u>	<u>108,571</u>	<u>596,765</u>

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	Consolidated financial statements			
	Fair value of property, plant and equipment from acquisition of subsidiaries Baht '000	Fair value of intangible assets Baht '000	Depreciation Baht '000	Total Baht '000
Deferred tax liabilities				
At 1 January 2019	82,404	207,155	99,348	388,907
Charged (credited) to profit or loss (Note 37)	(11,447)	(23,030)	35,148	671
Business combination	44,302	38,244	52,912	135,458
Exchange differences	-	(4,626)	-	(4,626)
At 31 December 2019	<u>115,259</u>	<u>217,743</u>	<u>187,408</u>	<u>520,410</u>
At 1 January 2020	115,259	217,743	187,408	520,410
Credited to profit or loss (Note 37)	(15,363)	(18,975)	(9,447)	(43,785)
Business combination	12,036	237,585	-	249,621
Exchange differences	-	(282)	-	(282)
At 31 December 2020	<u>111,932</u>	<u>436,071</u>	<u>177,961</u>	<u>725,964</u>
			Separate financial statements	
			Employee benefit obligations Baht '000	
Deferred tax assets				
At 1 January 2019				3,749
Charged to profit or loss (Note 37)				911
Charged to other comprehensive income				<u>1,767</u>
At 31 December 2019				<u>6,427</u>
At 1 January 2020				6,427
Charged to profit or loss (Note 37)				<u>2,711</u>
At 31 December 2020				<u><u>9,138</u></u>

Deferred income tax assets are recognised for tax loss carry forwards only to the extent that realisation of the related tax benefit through the future taxable profits is probable. At 31 December 2020, the Group does not recognise deferred tax assets from tax losses of Baht 3,859.61 million (2019: Baht 2,932.77 million), to carry forward against future taxable income; these tax losses will expire in 2021 to 2025 (2019: in 2020 to 2024), respectively.

As at 31 December 2020, temporary differences on profit from investments in associate and joint ventures amounting to Baht 18.12 million were not recognised as deferred tax liabilities (2019: Baht 207.03 million).

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25 Other non-current assets

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Deposits	56,230	34,096	2,270	164
Prepaid long-term service agreements	394,484	354,136	-	-
Advances for projects development	1,985,418	897,566	-	-
Advance payments for investments in a subsidiary (Note 43.4 (f))	60,074	60,308	-	-
Deferred financing fees	138,988	-	-	-
Prepaid land rental	-	236,036	-	-
Withholding tax deducted at sources	228,082	215,410	31,093	26,898
Advance payments for construction	1,097,305	535,002	772,522	-
Others	62	62	-	-
	<u>3,960,643</u>	<u>2,332,616</u>	<u>805,885</u>	<u>27,062</u>

26 Trade and other payables

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Trade payables				
- other parties	1,972,677	2,300,566	22	5,325
- a related party (Note 42.4)	-	-	-	29,334
Other payables				
- other parties	754,626	421,520	26,836	25,987
- related parties (Note 42.4)	8,399	12,121	125,035	125,574
Power plant construction payables	1,378,672	13,975,981	-	-
Accrued interest expense				
- financial institutions	329,754	288,480	88,846	80,660
- other parties	1,659	720	1,584	720
- a related party (Note 42.4)	41,490	80,298	-	-
Accrued expenses	608,777	354,028	84,123	28,828
Accrued expenses from long-term service agreements	449,848	477,915	-	-
Dividends payable	-	246,579	-	-
Financial liability from guarantee contract	-	-	65,879	-
Payable from the acquisition of a subsidiary (Note 17)	95,151	95,544	-	-
	<u>5,641,053</u>	<u>18,253,752</u>	<u>392,325</u>	<u>296,428</u>

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27 Borrowings

Short-term borrowings

Short-term borrowings from financial institutions are in form of promissory notes and trust receipts which are repayable within one year. The borrowings bear fixed interest rates from 1.15% to 3.25% per annum (2019: 3.25% per annum). The carrying amounts of short-term borrowings approximate their fair value as the effect of discounted cash flows is insignificant.

Long-term borrowings

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Current portion of long-term borrowings from financial institutions	1,361,841	855,047	-	-
<u>Less</u> Deferred financing fees	(25,389)	(22,075)	-	-
Current portion of long-term borrowings from financial institutions, net	1,336,452	832,972	-	-
Long-term borrowings from financial institutions	29,557,129	24,363,894	3,000,000	-
<u>Less</u> Deferred financing fees	(418,691)	(346,215)	-	-
Long-term borrowings from financial institutions, net	29,138,438	24,017,679	3,000,000	-
Total long-term borrowings from financial institutions, net	30,474,890	24,850,651	3,000,000	-

Maturity of long-term borrowings are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Within 1 year	1,361,841	855,047	-	-
Later than 1 year and not later than 5 years	7,323,657	5,333,334	900,000	-
Later than 5 years	22,233,472	19,030,560	2,100,000	-
	30,918,970	25,218,941	3,000,000	-
<u>Less</u> Deferred financing fees	(444,080)	(368,290)	-	-
Total long-term borrowings from financial institutions, net	30,474,890	24,850,651	3,000,000	-

Long-term borrowings from financial institutions can be classified by currencies as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Thai Baht	20,923,531	15,684,502	3,000,000	-
US Dollar	9,995,439	9,534,439	-	-
<u>Less</u> Deferred financing fees	(444,080)	(368,290)	-	-
Total long-term borrowings from financial institutions, net	30,474,890	24,850,651	3,000,000	-

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Book value and fair value of long-term borrowings from financial institutions as at 31 December 2020 are as follows:

	Consolidated financial statements		Separate financial statements	
	Book value Baht '000	Fair value Baht '000	Book value Baht '000	Fair value Baht '000
Long-term borrowings from financial institutions	30,474,890	30,486,628	3,000,000	3,011,738

The fair values are calculated based on future cash flows and discounted by the market borrowing rate at the statements of financial position date. The fair values are within level 2 of the fair value hierarchy.

Effective interest rates on long-term borrowings at the statements of financial position date as follows:

	Consolidated financial statements		Separate financial statements	
	2020 % per annum	2019 % per annum	2020 % per annum	2019 % per annum
Long-term borrowings from financial institutions	2.18 - 4.47	3.11 - 6.20	3.35	-

The movements of long-term borrowings from financial institutions during the year ended 31 December are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Opening net book value	24,850,651	25,347,876	-	-
Additions	3,163,343	1,004,305	3,000,000	-
Additions from business combination (Note 41)	3,645,433	-	-	-
Repayments	(1,098,946)	(829,495)	-	-
Unrealised exchange gain	(34,369)	(588,562)	-	-
Deferred financing fees	(71,767)	(8,507)	-	-
Amortisation of deferred financing fees	24,197	23,222	-	-
Exchange differences	(3,652)	(98,188)	-	-
Closing net book value	30,474,890	24,850,651	3,000,000	-

Long-term borrowings are secured by pledge of subsidiaries' shares (Note 17), land and power plants of the Group (Note 20), and guaranteed by standby letter of credit provided by the Group (Note 43.3) and guaranteed by the Company. In addition, the Group has to comply with certain conditions as specified in the agreements including covenants such as maintaining the financial ratios.

Financing arrangements

The Group has access to the following undrawn credit facilities as at 31 December as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Floating rate				
Expiring within one year - bank overdraft	-	606,626	-	606,626
Expiring beyond one year - bank loans	7,544,457	-	-	-
	7,544,457	606,626	-	606,626

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28 Debentures, net

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Current portion of debentures	3,699,990	2,699,990	2,700,000	500,000
<u>Less</u> Deferred financing fees	(2,710)	(2,037)	(946)	(274)
Current portion of debentures, net	3,697,280	2,697,953	2,699,054	499,726
Debentures	28,200,128	29,900,118	13,500,000	14,200,000
<u>Less</u> Deferred financing fees	(82,553)	(98,170)	(63,840)	(77,693)
Debentures, net	28,117,575	29,801,948	13,436,160	14,122,307
Total debentures, net	<u>31,814,855</u>	<u>32,499,901</u>	<u>16,135,214</u>	<u>14,622,033</u>

The movements of debentures during the year ended 31 December are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Opening net book value	32,499,901	32,781,980	14,622,033	14,605,983
Additions	2,000,000	-	2,000,000	-
Redemptions	(2,699,990)	(299,892)	(500,000)	-
Deferred financing fees	(2,514)	-	(2,514)	-
Amortisation of deferred financing fees	17,458	17,813	15,695	16,050
Closing net book value	<u>31,814,855</u>	<u>32,499,901</u>	<u>16,135,214</u>	<u>14,622,033</u>

Details of debentures

- 1) On 21 April 2017, Amata B.Grimm Power SPV 1 Limited (“ABPSPV1”), an indirect subsidiary, issued the guaranteed debentures denominated in Thai Baht, totalling Baht 11,500 million. Details are as follows:

Series	Amount (Baht million)	Due Date	Tenor period (Year)	Interest rate (% per annum)
1	1,800	21 April 2020	3	2.68
2	600	21 April 2021	4	3.00
3	1,500	21 April 2022	5	3.25
4	900	21 April 2023	6	3.58
5	900	21 April 2024	7	3.76
6	1,000	21 April 2026	9	4.01
7	1,500	21 April 2027	10	4.17
8	800	21 April 2028	11	4.33
9	1,000	21 April 2029	12	4.35
10	600	21 April 2030	13	4.48
11	900	21 April 2032	15	4.79

The debentures' interest payment schedule is semi-annually commencing from 21 October 2017.

The debentures are guaranteed by three subsidiaries being Amata B.Grimm Power 3 Limited, Amata B.Grimm Power (Rayong) 1 Limited and Amata B.Grimm Power (Rayong) 2 Limited. ABPSPV1 will proceed to ensure that the guarantors comply with certain procedures and conditions; for example, maintaining interest bearing debt to equity ratio at the level as specified in the contracts.

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- 2) On 31 May 2018, two subsidiaries being B.Grimm BIP Power 1 Limited and B.Grimm BIP Power 2 Limited issued unsecured debentures denominated in Thai Baht amounting to Baht 3,350 million in each subsidiary, totalling Baht 6,700 million. The principal will be redeemed annually for 15 years starting from 31 May 2019. The debentures bear fixed interest at 3.95% per annum and the interest payment schedule is semi-annually. In addition, the subsidiaries are required to comply with certain procedures and conditions; for example, maintaining debt to equity ratio at the level as specified in the contracts.
- 3) On 19 October 2018, the Company issued 4 series of unsecured subordinated debentures denominated in Thai Baht, totalling Baht 9,700 million. Details are as follows:

Series	Amount (Baht million)	Due Date	Tenor period (Year)	Interest rate (% per annum)
1	500	19 October 2020	2	2.81
2	2,700	19 October 2021	3	3.12
3	1,500	19 October 2023	5	3.49
4	5,000	19 October 2028	10	4.36

The debentures' interest payment schedule is semi-annually commencing from 19 April 2019.

The Company is required to comply with certain procedures and conditions; for example, maintaining debt to equity ratio at the level as specified in the contracts.

- 4) On 20 December 2018, the Company issued 2 series of unsecured debentures (Green bond) denominated in Thai Baht, totalling Baht 5,000 million. Details are as follows:

Series 1 Debenture amount of Baht 1,500 million. The principal will be redeemed on the completion date of the fifth year from the issuance date which is 20 December 2023. The debenture bears interest at a fixed rate of 3.01% per annum

Series 2 Debenture amount of Baht 3,500 million. The principal will be redeemed on the completion date of the seventh year from the issuance date which is 20 December 2025. The debenture bears interest at a fixed rate of 3.39% per annum

The debentures' interest payment schedule is semi-annually commencing from 20 June 2019.

The Company is required to comply with certain procedures and conditions; for example, maintaining debt to equity ratio at the level as specified in the contracts.

- 5) On 17 November 2020, the Company issued unsecured debentures denominated in Thai Baht amounting to Baht 2,000 million. The principal will be redeemed on the completion date of the fifth year from the issuance date which is 17 November 2025. The debentures bear fixed interest at 3.00% per annum and the interest payment schedule is semi-annually. In addition, the Company is required to comply with certain procedures and conditions; for example, maintaining debt to equity ratio at the level as specified in the contracts.

Book value and fair value of debentures as at 31 December 2020 are as follows:

	Consolidated financial statements		Separate financial statements	
	Book value Baht '000	Fair value Baht '000	Book value Baht '000	Fair value Baht '000
Debentures	31,814,855	33,906,335	16,135,214	17,096,837

Fair value of debentures have been calculated based on future cash flows and discounted by the yield curve of the Thai Bond Market Association at the rates ranging from 1.71% to 3.58% per annum. The fair value are within level 2 of the fair value hierarchy.

The effective interest rates at the statements of financial position date were as follows:

	Consolidated financial statements		Separate financial statements	
	2020 % per annum	2019 % per annum	2020 % per annum	2019 % per annum
Debentures	3.01 - 4.81	2.74 - 4.81	3.01 - 4.38	2.88 - 4.38

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29 Employee benefit obligations

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Liabilities in the statements of financial position	451,947	404,718	45,691	32,136
Employment benefits included in operating profit	56,235	87,462	13,599	4,607
Remeasurement - loss from change in assumptions	-	83,539	-	8,834

Employee benefit obligations comprise "Retirement benefits" and "Long service awards".

Retirement benefits

The movements of retirement benefits during the year are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
At 1 January	379,877	208,397	31,341	18,214
Current service cost	45,741	26,841	12,534	1,010
Past service cost	-	51,386	-	3,188
Interest expense	6,464	6,201	583	307
	432,082	292,825	44,458	22,719
Remeasurements:				
Loss from change in demographic assumptions	-	1,574	-	27
Loss from change in financial assumptions	-	46,530	-	2,130
Experience loss	-	31,578	-	6,465
	-	79,682	-	8,622
Additions from business combination (Note 41)	3,947	10,589	-	-
Exchange differences	(14)	(111)	-	-
Benefit paid	(11,989)	(3,108)	-	-
At 31 December	424,026	379,877	44,458	31,341

During 2019, an amendment bill to the Labour Protection Law became effective. The main amendment is that the compensation for employees who have retired and have more than or equal to 20 years of service has changed from 300 day's pay to 400 day's pay. The effects of the amendment were recognised as past service cost during the year.

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The amounts recognised in 'operating profit' in profit or loss are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Current service cost	45,741	26,841	12,534	1,010
Past service cost	-	51,386	-	3,188
Interest expense	6,464	6,201	583	307
Total charges	52,205	84,428	13,117	4,505

The total charges were included in 'cost of sales and services' and 'administrative expenses' as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Cost of sales and services	24,965	43,231	13,117	4,505
Administrative expenses	27,240	41,197	-	-
	52,205	84,428	13,117	4,505

Long service awards

The movements of long service awards during the year are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
At 1 January	24,841	18,011	795	533
Current service cost	3,640	2,616	466	90
Interest expense	390	418	16	12
	28,871	21,045	1,277	635
Remeasurements:				
Loss from change in demographic assumptions	-	323	-	11
Loss from change in financial assumptions	-	839	-	89
Experience loss	-	2,695	-	112
	-	3,857	-	212
Additions from business combination (Note 41)	-	8,428	-	-
Benefit paid	(950)	(8,489)	(44)	(52)
At 31 December	27,921	24,841	1,233	795

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The amounts recognised in 'operating profit' in profit or loss are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Current service cost	3,640	2,616	466	90
Interest expense	390	418	16	12
Total charges	4,030	3,034	482	102

The total charges were included in 'cost of sales and services' and 'administrative expenses' as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Cost of sales and services	1,927	1,553	482	102
Administrative expenses	2,103	1,481	-	-
	4,030	3,034	482	102

The principal actuarial assumptions used were as follows:

	Consolidated and separate financial statements	
	2020 %	2019 %
Discount rate	1.8 - 1.9	1.9
Salary increase rate	4.0 - 9.0	4.0 - 9.0
Turnover rate	0.0 - 5.0	0.0 - 5.0

Sensitivity analysis for each significant actuarial assumptions used to estimate retirement benefits is as follows:

	2020		
	Change in assumption	Impact on defined benefit obligations	
		Increase in assumption	Decrease in assumption
Discount rate	1%	Decrease by 11%	Increase by 13%
Salary increase rate	1%	Increase by 15%	Decrease by 13%
Turnover rate	20%	Decrease by 5%	Increase by 6%
	2019		
	Change in assumption	Impact on defined benefit obligations	
		Increase in assumption	Decrease in assumption
Discount rate	1%	Decrease by 11%	Increase by 14%
Salary increase rate	1%	Increase by 13%	Decrease by 11%
Turnover rate	20%	Decrease by 4%	Increase by 4%

The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the defined benefit obligations to significant actuarial assumptions the same method (present value of the defined benefit obligation calculated with the projected unit credit method) has been applied as when calculating the employee benefit obligations recognised in the statements of financial position.

The weighted average duration of the defined benefit obligations is 15.0 - 19.2 years (2019: 19.2 years).

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30 Share capital

	Authorised share capital		Issued and paid-up share capital		Share premium on ordinary shares
	Shares '000	Baht '000	Shares '000	Baht '000	Baht '000
At 1 January 2019	2,700,000	5,400,000	2,606,900	5,213,800	9,644,040
At 31 December 2019	2,700,000	5,400,000	2,606,900	5,213,800	9,644,040
At 31 December 2020	2,700,000	5,400,000	2,606,900	5,213,800	9,644,040

31 Subordinated perpetual bond

On 22 November 2019, the Company issued the subordinated perpetual bond totalling Baht 8,000 million, with an issuance cost of Baht 48.33 million. The bond was recognised as an item of equity. The bond has significant terms and conditions and carries interest rate as per details below:

The subordinated perpetual bond is unguaranteed, unconvertible and will be redeemed when the Company is liquidated or when the Company exercises its right to early redeem as per terms and conditions specified. The Company has the sole right to defer interest payment and accumulated accrued interest without requirement for bondholder's consent and without time limitation.

Subordinated perpetual bond's interest rate is as follows:

From	To	Interest rate
22 November 2019	22 November 2024	Fixed rate of 5.00%
22 November 2024	22 November 2044	5-Year Government bond yield +3.86%
22 November 2044	22 November 2069	5-Year Government bond yield +4.61%
22 November 2069	22 November 2119	5-Year Government bond yield +5.61%

As at 31 December 2020, the cumulated interest expense on subordinated perpetual bond which has not been declared and recognised was amounting to Baht 43.84 million (2019: Baht 43.84 million).

32 Legal reserve

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

During the year ended 31 December 2020, the Company appropriated additional legal reserve amounting to Baht 77.28 million (2019: Baht 42.00 million).

33 Sales and services income

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Electricity sales	43,809,570	43,765,663	115,864	117,234
Construction revenue	153,405	-	153,405	-
Services revenue	11,402	5,390	263,024	261,238
	<u>43,974,377</u>	<u>43,771,053</u>	<u>532,293</u>	<u>378,472</u>

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34 Other income

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Interest income	192,100	184,402	975,342	767,304
Insurance claim	34,591	44,484	-	-
Dividends income	-	-	1,706,687	950,676
Others	24,121	60,611	150,931	1,210
	<u>250,812</u>	<u>289,497</u>	<u>2,832,960</u>	<u>1,719,190</u>

35 Expenses by nature

The following expenditure items, classified by nature, have been charged in calculation of profit before finance cost and income tax:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Gas purchase	24,726,402	26,617,956	-	-
Electricity purchase	1,097,052	1,120,351	-	-
Raw water	374,478	356,852	31	40
Other costs of sales of electricity	832,942	829,146	11,962	35,695
Staff costs	1,763,955	1,656,229	239,395	115,660
Depreciation of plant and equipment (Note 20)	4,799,221	4,159,011	49,579	43,928
Depreciation of right-of-use assets	77,082	-	13,597	-
Amortisation of intangible assets (Note 23)	617,795	500,929	39,753	38,221
Major repair and maintenance of power plants expenses	1,151,547	1,162,108	416	36
Bank charges	83,181	53,984	1,127	4,275
Consulting fees	237,047	256,854	65,020	79,421
Penalties	88,996	100,960	-	-
Plant insurance	198,492	150,013	582	578

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36 Finance costs

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Fair value gain from financial instrument	(46,455)	-	-	-
Interest on borrowings and debentures	2,852,807	2,704,584	664,731	614,939
Interest on long-term borrowings from Amata B.Grimm Power Power Plant Infrastructure Fund (Note 42.2)	106,642	199,319	-	-
Gain on exchange rate from financing activities	(46,157)	(569,337)	(1,608)	(2,349)
Amortisation of deferred financing fees	41,649	41,035	15,695	16,050
Finance costs from discounted long-term liabilities of power plant construction	223,032	220,837	-	-
Others	54,917	33,731	9,089	8,294
	<u>3,186,435</u>	<u>2,630,169</u>	<u>687,907</u>	<u>636,934</u>

37 Income tax

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Current tax:				
Current tax on profits for the year	311,251	243,586	-	-
Deferred tax:				
Increase in deferred tax assets (Note 24)	(34,437)	(9,086)	(2,711)	(911)
Increase (decrease) in deferred tax liabilities (Note 24)	(43,785)	671	-	-
Total deferred tax	(78,222)	(8,415)	(2,711)	(911)
Income tax	<u>233,029</u>	<u>235,171</u>	<u>(2,711)</u>	<u>(911)</u>

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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 Company as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Profit before tax	3,988,505	4,212,200	1,542,858	839,114
Tax calculated at tax rates of 8% to 30% (2019: 8% to 30%)	757,053	853,790	308,572	167,823
Tax effect of:				
Income not subject to tax	(731,912)	(810,047)	(343,951)	(194,455)
Expenses not deductible for tax purpose	57,887	41,432	31,565	12,738
Expenses additionally deductible for tax purpose	(86,628)	(9,009)	(81,963)	(3,491)
Tax losses for which no deferred income tax asset was recognised	245,282	185,651	83,066	16,474
Utilisation of previously unrecognised tax losses	(8,397)	(11,732)	-	-
Others	(256)	(14,914)	-	-
Tax charge	233,029	235,171	(2,711)	(911)
Weighted average applicable tax rate	6%	6%	-	-

The tax charge relating to component of other comprehensive income are as follows:

	Consolidated financial statements					
	2020			2019		
	Before tax Baht '000	Tax charge Baht '000	After tax Baht '000	Before tax Baht '000	Tax charge Baht '000	After tax Baht '000
Changes in fair value of hedging instrument	1,370,180	(59,248)	1,310,932	-	-	-
Reclassify hedging reserve to profit or loss	(649,845)	-	(649,845)	-	-	-
Share of other comprehensive income of joint ventures	19,426	(6,582)	12,844	-	-	-
Remeasurement on employee benefit obligations	-	-	-	83,538	(8,597)	74,941
Currency translation difference	1,951	-	1,951	528,261	-	528,261
Other comprehensive income	741,712	(65,830)	675,882	611,799	(8,597)	603,202

	Separate financial statements					
	2020			2019		
	Before tax Baht '000	Tax charge Baht '000	After tax Baht '000	Before tax Baht '000	Tax charge Baht '000	After tax Baht '000
Remeasurement on employee benefit obligations	-	-	-	8,834	(1,767)	7,067
Other comprehensive income	-	-	-	8,834	(1,767)	7,067

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38 Earnings per share

Basic earnings per share is calculated by dividing the net profit attributable to equity holders of the parent for the year by the weighted average number of paid-up ordinary shares in issue during the year.

	Consolidated financial statements		Separate financial statements	
	2020	2019	2020	2019
Profit attributable to ordinary shareholders (Baht '000)	2,174,759	2,331,153	1,545,569	840,025
<u>Less</u> Interest expenses on perpetual debentures, net of tax (Baht '000)	<u>(401,096)</u>	<u>(43,836)</u>	<u>(401,096)</u>	<u>(43,836)</u>
Profit used to determine earnings per share (Baht '000)	<u>1,773,663</u>	<u>2,287,317</u>	<u>1,144,473</u>	<u>796,189</u>
Weighted average number of ordinary shares for earnings per share (shares '000)	<u>2,606,900</u>	<u>2,606,900</u>	<u>2,606,900</u>	<u>2,606,900</u>
Basic earnings per share (Baht)	<u>0.68</u>	<u>0.88</u>	<u>0.44</u>	<u>0.31</u>

There are no potential dilutive ordinary shares in issue for the years ended 2020

39 Dividends

2020

On 1 April 2020, the Annual General Meeting of Shareholders approved the payment of interim dividends in respect of the operation results of 2019 for the 2,606,900,000 ordinary shares at Baht 0.22 per share, totalling Baht 573.52 million. These dividends were paid to shareholders on 30 April 2020.

On 13 August 2020, the Board of Directors meeting approved the payment of interim dividends in respect of the operation results of 2020 for the 2,606,900,000 ordinary shares at Baht 0.15 per share, totalling Baht 391.04 million. These dividends were paid to shareholders on 11 September 2020.

2019

On 25 April 2019, the Annual General Meeting of Shareholders approved the payment of dividends in respect of the operation results of 2018 for the 2,606,900,000 ordinary shares at Baht 0.17 per share, totalling Baht 443.17 million. These dividends were paid to shareholders on 10 May 2019.

On 13 August 2019, the Board of Directors meeting approved the payment of interim dividends in respect of the operation results of 2019 for the 2,606,900,000 ordinary shares at Baht 0.15 per share, totalling Baht 391.04 million. These dividends were paid to shareholders on 10 September 2019.

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40 Share-based payments

On 16 May 2017, the Group put in place a 'Special Remuneration Scheme' for its directors and employees where participating employees will be granted the right to use their remuneration to subscribe for initial public offering shares (IPO shares) at the IPO share price. This is provided that they enter into an agreement with the Company or its subsidiaries to continue their employment for next four calendar years (the lock-up period). If the employees resign before the lock-up period, they will be forced to sell all of their shares to other parties in the market and return the proceed from sales to the Group.

The movements of the number of shares under the Special Remuneration Scheme during the year are as follows:

	Consolidated financial statements	Separate financial statements
	Shares	Shares
At 1 January 2019	10,236,400	1,068,100
Vested	(151,300)	-
Cancellation due to non-compliance with the service conditions	(73,200)	-
At 31 December 2019	<u>10,011,900</u>	<u>1,068,100</u>
At 1 January 2020	10,011,900	1,068,100
Vested	(143,300)	-
Cancellation due to non-compliance with the service conditions	(68,200)	-
Completion of service conditions	(9,800,400)	(1,068,100)
At 31 December 2020	<u>-</u>	<u>-</u>

The fair value of shares at the grant date determined using the discounted cash flows model was Baht 16.50 per share. The significant input using for the model was the forecasted future free cash flows of the Group.

The principal assumptions used in the discounted cash flow were:

	Consolidated financial statements
Risk free rate	3 %
Risk premium	8 %
Beta	0.79

The amounts under the Special Remuneration Scheme were recognised in the financial statements as follows:

	Consolidated financial statements		Separate financial statements	
	2020	2019	2020	2019
For the year ended 31 December	Baht '000	Baht '000	Baht '000	Baht '000
Investments in subsidiaries, in the statements of financial position	-	-	16,679	16,140
Share-based payments to employees, included in operating profit	43,617	46,866	2,652	2,650
Reversed other reserve - share-based payments				
- Vested	(2,293)	(2,421)	-	-
- Cancellation due to non-compliance with the service conditions	(2,399)	(1,774)	-	-
- Completion of service conditions	(156,806)	-	(76,992)	-

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41 Business combination

2020

On 17 March 2020, B.Grimm Power (Chonburi) 2 Limited, a direct subsidiary, acquired 70% equity interest in ATP's ordinary shares, for a consideration of Baht 2,520 million. As a result, ATP becomes a subsidiary of the Group. The investment is considered as a business combination under TFRS 3 - Business Combinations.

The following table summarises the consideration paid for acquiring ATP and the amounts of the assets acquired and liabilities assumed recognised at the acquisition date.

Consideration paid on 17 March 2020

	<u>Baht '000</u>
Cash	2,520,000

Recognised amounts of identifiable assets acquired and liabilities assumed on the acquisition date

Cash and cash equivalents	820,120
Trade and other receivables	320,881
Spare parts and supplies	78,950
Property, plant and equipment	4,531,416
Right-of-use asset	812
Intangible assets	8,137
Right in power purchase agreement (included in intangible assets)	1,483,107
Other current assets	45
Other non-current assets	2,589
Trade and other payables	(296,288)
Other current liabilities	(14,034)
Long-term borrowings from financial institution	(3,645,433)
Lease liabilities	(879)
Employee benefit obligations	(3,947)
Derivative liabilities	(507,517)
Deferred tax liabilities	(196,118)
<u>Less</u> Non-controlling interest	(774,552)
Identifiable net assets	1,807,289
Goodwill	712,711
Net assets from acquisition	<u><u>2,520,000</u></u>

The Group has chosen to recognise the non-controlling interest at its net identifiable assets of the subsidiary for this acquisition according to the proportion of ownership interest.

The consolidated statement of comprehensive income for the year ended 31 December 2020 included revenue and net profit contributed by ATP since the acquisition date amounting to Baht 1,611.59 million and Baht 115.75 million, respectively.

If ATP have had been consolidated from 1 January 2020, the consolidated statement of comprehensive income for the year ended 31 December 2020 would have shown revenue of Baht 44,380.82 million and profit of Baht 3,724.98 million.

Disposal of interest in a subsidiary without losing control

B.Grimm Power (AIE-MTP) Limited ("BPAM") (formerly Glow SPP1 Company Limited)

On 30 September 2020, BPLCS disposed 5% interests held in BPAM for a consideration of Baht 200 million. This is a disposal of interest in a subsidiary without losing control. The carrying amount of 5% interest in BPAM on the disposal date was Baht 180.02 million. The Group recognised an increase in non-controlling interests and equity attributable to owners of the parent amounting to Baht 180.02 million and Baht 19.98 million, respectively.

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The effect of changes in the parent's ownership interest in BPAM is summarised as follows:

	Baht '000
Consideration received from non-controlling interests	200,000
Carrying amount of disposed non-controlling interests	180,021
Increase in parent's equity	<u>19,979</u>

2019

On 13 March 2019, BPLCS, an indirect subsidiary, acquired 100% equity interest in BPAM, for a consideration of Baht 3,300 million. As a result, BPAM becomes a subsidiary of the Group. The investment is considered as a business combination under TFRS 3 - Business Combinations.

The following table summarises the consideration paid for acquiring BPAM and the amounts of the assets acquired and liabilities assumed recognised at the acquisition date.

Consideration paid on 13 March 2019:

	Baht '000
Cash	<u>3,300,000</u>

Recognised amounts of identifiable assets acquired and liabilities assumed on the acquisition date

Cash and cash equivalents	472,157
Trade and other receivables	689,111
Spare parts and supplies	56,508
Property, plant and equipment	1,976,536
Intangible assets	12,499
Right in power purchase agreement (included in intangible assets)	225,000
Other current assets	23,326
Other non-current assets	2,691
Trade and other payables	(439,125)
Other current liabilities	(42,273)
Employee benefit obligations	(19,017)
Deferred tax liabilities	(114,605)
Identifiable net assets	<u>2,842,808</u>
Goodwill	<u>457,192</u>
Net assets from acquisition	<u><u>3,300,000</u></u>

The consolidated statement of comprehensive income for the year ended 31 December 2019 included revenue and profit contributed by BPAM since the acquisition date amounting to Baht 2,420.68 million and Baht 220.24 million, respectively.

If BPAM had been consolidated from 1 January 2019, the consolidated statement of comprehensive income for the year ended 31 December 2019 would have shown revenue of Baht 44,633.26 million and profit of Baht 4,015.51 million.

Disposal of interest in a subsidiary without losing control

On 24 December 2019, BPLCS disposed 25% interests held in BPAM for a consideration of Baht 825 million. The carrying amount of the non-controlling interests (25% interest) in BPAM on the date of disposal was Baht 869.39 million. The Group therefore recognised an increase in non-controlling interests amounting to Baht 869.39 million and a decrease in equity attributable to owners of the parent amounting to Baht 44.39 million.

The effect of changes in the parent's ownership interest in BPAM is summarised as follows:

	Baht '000
Carrying amount of disposed non-controlling interests	869,385
Consideration received from non-controlling interests	825,000
Decrease in parent's equity	<u>44,385</u>

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42 Related-party transactions

Individuals and entities that directly or indirectly control or are controlled by or are under common controls with the Company, including investment entities, associates, joint ventures and individuals or entities having significant influence over the Company, key management personnel, including directors and officers of the Company and close members of the family of these individuals and entities controlled or jointly controlled by these individuals also constitute related parties.

In considering each possible related-party relationship, attention is directed to the substance of the relationship, and not merely the legal form.

The major shareholders of the Company are the B.Grimm Power (Singapore) PTE. LTD. and Mr. Harald Link who own 30.46% and 24.30% of the Company's shares, respectively (2019: 33.99% and 24.30%, respectively). The ultimate controlling party is Mr. Harald Link. The information on the Company's subsidiaries is provided in Note 17.

The following transactions were carried out with related parties:

42.1 Revenues and other income

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Revenue				
Electricity sales:				
Company under control of non-controlling interests	22,456	24,072	-	-
Entities under common control	330	-	-	-
	<u>22,786</u>	<u>24,072</u>	<u>-</u>	<u>-</u>
Service income:				
Subsidiaries	-	-	259,024	257,238
Joint ventures	4,000	4,000	4,000	4,000
	<u>4,000</u>	<u>4,000</u>	<u>263,024</u>	<u>261,238</u>
Other income				
Interest income:				
Subsidiaries	-	-	920,457	711,911
Joint ventures	6,933	4,035	1,209	3,500
	<u>6,933</u>	<u>4,035</u>	<u>921,666</u>	<u>715,411</u>
Guarantee fee:				
Subsidiary	-	-	75,844	-
Arrangement fee:				
Subsidiaries	-	-	61,674	-
Dividend income:				
Subsidiaries	-	-	1,706,687	950,676

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42.2 Expenses

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Purchases of raw water from:				
Company under control of non-controlling interests	196,498	204,479	-	-
Non-controlling interests of subsidiaries	60,846	60,101	-	-
	<u>257,344</u>	<u>264,580</u>	<u>-</u>	<u>-</u>
Interest expense:				
Associate	106,642	199,319	-	-
Entities under common control	1,090	-	236	-
Non-controlling interests of subsidiaries	7,856	511	-	-
	<u>115,588</u>	<u>199,830</u>	<u>236</u>	<u>-</u>
Rental and office service:				
Entities under common control	<u>36,508</u>	<u>43,228</u>	<u>3,480</u>	<u>-</u>
Payments on lease liabilities:				
Entities under common control	20,081	-	3,318	-
Non-controlling interests of subsidiaries	11,316	-	-	-
	<u>31,397</u>	<u>-</u>	<u>3,318</u>	<u>-</u>
Purchases of land from:				
Non-controlling interests of subsidiaries	<u>145,222</u>	<u>-</u>	<u>-</u>	<u>-</u>

42.3 Trade and other receivables

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Trade receivables:				
Subsidiaries	-	-	10,419	29,265
Joint ventures	-	357	-	357
Other related parties	408	424	-	-
	<u>408</u>	<u>781</u>	<u>10,419</u>	<u>29,622</u>
Accrued interest income:				
Subsidiaries	-	-	1,892,651	1,111,911
Joint ventures	8,713	1,984	2,454	1,449
	<u>8,713</u>	<u>1,984</u>	<u>1,895,105</u>	<u>1,113,360</u>
Dividend receivables:				
Subsidiaries	<u>-</u>	<u>-</u>	<u>127,000</u>	<u>441,002</u>
Other receivables:				
Subsidiaries	-	-	494,818	211,620
Joint ventures	25,032	28,477	25,028	22,016
Other related parties	675	4,048	-	-
	<u>25,707</u>	<u>32,525</u>	<u>519,846</u>	<u>233,636</u>

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42.4 Trade and other payables

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Trade payables:				
Subsidiaries	-	-	-	29,334
Other payables:				
Subsidiaries	-	-	125,018	125,072
Joint ventures	17	17	17	17
Other related parties	8,382	12,104	-	485
	<u>8,399</u>	<u>12,121</u>	<u>125,035</u>	<u>125,574</u>
Accrued interest:				
Associate	41,490	80,298	-	-
Lease liabilities:				
Entities under common control	42,700	-	8,773	-
Non-controlling interests of subsidiaries	47,671	-	-	-
	<u>90,371</u>	<u>-</u>	<u>8,773</u>	<u>-</u>

42.5 Short-term loans to related parties

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Subsidiaries	-	-	8,620,027	739,448
Joint ventures	168,552	218,273	59,040	132,228
	<u>168,552</u>	<u>218,273</u>	<u>8,679,067</u>	<u>871,676</u>

The movements of short-term loans to related parties during the year are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
At 1 January	218,273	18,240	871,676	7,960,070
Additions	23,467	2,111,073	8,273,211	8,159,993
Transfer to long-term loans to related parties	-	-	-	(12,500,187)
Repayments	(73,188)	(1,911,040)	(268,762)	(2,748,200)
Exchange differences	-	-	(197,058)	-
At 31 December	<u>168,552</u>	<u>218,273</u>	<u>8,679,067</u>	<u>871,676</u>

Short-term loans to related parties are unsecured and denominated in Thai Baht and US Dollar. The loans carry interest rate at fixed rate per annum (2019: fixed rate per annum). The principles and interests are repayable at call and within 2021.

The carrying amounts of short-term loans to related parties approximate their fair values as the effect of discounted cash flows is insignificant.

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42.6 Long-term loans to related parties

	Separate financial statements	
	2020	2019
	Baht '000	Baht '000
Subsidiaries		
Due within 1 year	453,570	453,570
Due over 1 year	26,235,759	18,596,979
	<u>26,689,329</u>	<u>19,050,549</u>

The movements of long-term loans to related parties for the year ended 31 December are as follows:

	Separate financial statements	
	2020	2019
	Baht '000	Baht '000
At 1 January	19,050,549	7,075,866
Additions	8,018,583	998,383
Transfer from short-term loans to related parties	-	12,500,187
Repayments	(363,570)	(1,519,485)
Exchange differences	(16,233)	(4,402)
At 31 December	<u>26,689,329</u>	<u>19,050,549</u>

Long-term loans to related parties are unsecured and denominated in Thai Baht and US Dollars. The loans carry interest rate at fixed rate and MLR less certain margin per annum. The principles and interests are repayable from 2021 to 2040.

The fair values are based on discounted cash flows using a discount rate based upon the market borrowing rate at the statements of financial position date. The fair values are within level 2 of the fair value hierarchy.

42.7 Long-term borrowings from related party

	Consolidated financial statements	
	2020	2019
	Baht '000	Baht '000
An associate	<u>1,776,000</u>	<u>2,384,500</u>

On 19 September 2013, the Group enter into the revenue sharing agreement (“the Agreement”) with Amata B.Grimm Power Power Plant Infrastructure Fund (“the Fund”) to borrow Baht 6,202 million for the purposes of the Group’s funding support.

Under the Agreement, the Group commits to transfer the benefits from the electricity generated to the Fund which cover the period from 1 January 2013 to 27 September 2022. The installments and interest payments are to be made every six-month. The Agreement has expiration date on 27 September 2022. The interest has been calculated based on operating results and the remaining cash flows of each period of each subsidiary less with the principal repayment of each period which has been set out under the Agreement.

According to the conditions specified in the Agreement, any liabilities obligated by the Group as of the expiration date of the Agreement shall be terminated.

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The movements of long-term borrowings from related party during the year ended 31 December are as follows:

	Consolidated financial statements	
	2020	2019
	Baht '000	Baht '000
Opening net book value	2,384,500	3,558,000
Repayments	(608,500)	(1,173,500)
Closing net book value	<u>1,776,000</u>	<u>2,384,500</u>

Maturity of long-term borrowings from related party are as follows:

	Consolidated financial statements	
	2020	2019
	Baht '000	Baht '000
Within 1 year	671,500	608,500
Later than 1 year but not later than 5 years	1,104,500	1,776,000
	<u>1,776,000</u>	<u>2,384,500</u>

As at 31 December 2020, the fair value of long-term borrowings from related party is Baht 1,973.74 million (2019: Baht 2,616.85 million) which has been calculated based on estimated future cash outflows discounted with the rate which reflects related risks of the subsidiary, at the rate 5.31% per annum (2019: 5.07% per annum). The fair value is within level 3 of the fair value hierarchy.

42.8 Key management compensation

Key management includes directors (executive and non-executive) and members of the executive committee. The compensation paid or payable to key management are as follows:

	Consolidated financial statements	
	2020	2019
	Baht '000	Baht '000
Salaries and other short-term employee benefits	124,170	109,408
Post-employment benefits	12,401	1,332
Other long-term benefits	12	11
Share-based payments for key management	9,448	9,448
	<u>146,031</u>	<u>120,199</u>

43 Commitments and significant agreements

43.1 Capital expenditure commitments

Capital expenditure contracted at the statement of financial position date but not recognised in the financial statements are as follows:

As at 31 December, there were capital commitments expenditure in respect of the power plant construction and purchases of machineries and equipment which have not been recognised as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Thai Baht	13,434,506	2,145,178	1,060,992	-
Japanese Yen	2,303,992	-	-	-
US Dollar	366,423	49,255	70,636	-
Swedish Krona	939,085	-	-	-
Euro	59,861	-	-	-
Vietnamese Dong	-	5,435,615	-	-
Laotian Kip	-	667,638	-	-

43.2 Lease commitments - where the Group is the lessee

The future aggregate minimum lease payments under non-cancellable leases that are not recognised as lease liabilities are as follows:

	Consolidated financial statements		Separate financial statements	
	2020 Baht '000	2019 Baht '000	2020 Baht '000	2019 Baht '000
Not later than 1 year	17,854	84,657	204	8,350
Later than 1 year but not later than 5 years	18,496	193,994	390	10,991
Later than 5 years	-	950,777	-	-
	36,350	1,229,428	594	19,341

On 1 January 2020, the Group recognised lease liabilities in the financial statements except for short-term leases and lease for low-value assets. The details are as disclosed in Note 4. Therefore, the balance of lease commitments as at 31 December 2020 and 2019 are not comparable.

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43.3 Letter of guarantee and standby letter of credit

As at 31 December, the Group has letter of guarantee and standby letter of credit issued by financial institutions in respect of certain performance required in the normal course of business as follows:

	Currency (Million)	Consolidated financial statements		Separate financial statements	
		2020	2019	2020	2019
Additional paid-up for ordinary shares	Thai Baht	-	119.83	-	44.83
Power plant project bidding	Thai Baht	280.00	300.00	280.00	300.00
Power purchase agreements ("PPA")*	Thai Baht	5,385.50	3,556.35	960.23	341.32
	US Dollar	0.29	0.29	-	-
Right to sell electricity agreements	Thai Baht	166.58	166.58	166.58	166.58
Power plant construction and machinery purchase agreements	Thai Baht	792.89	250.00	273.01	250.00
	US Dollar	97.82	223.53	89.58	223.53
	Euro	20.04	-	1.71	-
	Swedish Krona	144.35	-	50.85	-
Other purposes	Thai Baht	150.83	23.38	132.36	6.00

*The amount includes guarantee for electricity backup agreement

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43.4 Significant agreements

Power purchase agreements

Domestic

As at 31 December 2020, the Group has 49 power purchase agreements (“PPA”) (2019: 43 PPA) with the Electricity Generating Authority of Thailand (“EGAT”), the Provincial Electricity Authority (“PEA”) and the Metropolitan Electricity Authority (“MEA”). Currently, the Group has commenced the production and distribution of electricity under 40 PPA (2019: 39 PPA). The agreements are summarised as follows:

	Electricity generating system	Company	Number of agreements	Production capacity (MW)	The term of the agreements
Production and distribution of electricity	Combined cycle cogeneration	Subsidiaries	17	2,041.4	The agreements are for the period of 21 to 25 years commencing from the first commercial operation date (“COD”). According to the PPA, the subsidiaries are required to comply with the conditions set out in the PPA. Furthermore, the subsidiaries are required to provide bank guarantees for the obligation of the agreements. The collateral is to be return to such subsidiaries upon the expiry of the agreements (Note 43.3).
	Industrial waste	Joint venture	1	4	The agreement is for the period of 20 years commencing from the first COD. According to the PPA, joint venture is required to comply with the conditions set out in the PPA.
	Solar farms	The Company	4	18.6	The agreements are for the period of 25 years commencing from the first COD. According to the PPA, the Group is required to comply with the conditions set out in the PPA.
		Subsidiaries	12	80	
Joint ventures		6	46.5		
Under development	Combined cycle cogeneration	Subsidiaries	7	390	The agreements are for the period of 25 years commencing from the first COD. According to the PPA, the subsidiaries are required to comply with the conditions set out in the PPA. Furthermore, the subsidiaries are required to provide bank guarantees for the obligation of the agreements. The collateral is to be return to such subsidiaries upon the expiry of the agreements (Note 43.3).
	Wind energy	Subsidiaries	2	16	The agreements are for the period of 5 years and will be automatically renewed for an additional 5 years every time until the contracts are terminated.

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Overseas

As at 31 December 2020, the Group has 11 PPA (2019: 11 PPA) with the Electricite Du Laos (“EDL”), the Electricite Du Vietnam (“EVN”), and Electricite Du Cambodge (“EDC”). Currently, the Group has commenced the production and distribution of electricity under 5 PPA (2019: 4 PPA). The overseas agreements are summarised as follows:

	Electricity generating system	Company	Country of incorporation	Number of agreements	Production capacity (MW)	The term of the agreements
Production and distribution of electricity	Hydro power	Subsidiaries	Lao PDR	2	35.1	The subsidiaries were awarded concession agreements by the Government of the Laos People’s Democratic Republic (“GOL”) to build, own, and operate a Hydropower project (“the Project”) to provide generating capacity and distributing electricity to EDL. The concessions period are effective for the period of 50 years commencing from the date of concession agreement. At the end of the concession period, subsidiaries are subjected to transfer all of its right title and interest in the Project to GOL. According to a concession agreement, the overseas subsidiaries entered into PPA with EDL. The PPA is effective for the period of 25 years commencing from the first COD.
	Solar farms	Subsidiaries	Vietnam	2	677	The agreements are for the period of 20 years commencing from the first COD. According to the PPA, subsidiaries are required to comply with the conditions set out in the PPA.
	Solar farms	Subsidiaries	Cambodia	1	30	The agreements are for the period of 20 years commencing from the first COD. According to the PPA, subsidiaries are required to comply with the conditions set out in the PPA.
Under development	Hydro power	Subsidiaries	Lao PDR	6	127.5	The subsidiaries were awarded concession agreements by the Government of the Laos People’s Democratic Republic (“GOL”) to build, own, and operate a Hydropower project (“the Project”) to provide generating capacity and distributing electricity to EDL. The concessions period are effective for the period of 50 years commencing from the date of concession agreement. At the end of the concession period, subsidiaries are subjected to transfer all of its right title and interest in the Project to GOL. According to a concession agreement, the overseas subsidiaries entered into PPA with EDL. The PPA is effective for the period of 25 years commencing from the first COD.

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Gas purchase agreements

- a) 19 subsidiaries entered into gas purchase agreements with PTT Public Company Limited. The agreements are effective for the periods of 21 and 25 years commencing from the trading dates. The sale quantities and their prices must be complied with the agreements. The agreements can be extended by the parties upon the conditions as specified in the agreements.

Water purchase agreements

- b) 17 subsidiaries entered into water purchase agreements with the sellers in industrial parks to provide water to be used in the electricity generating system. The agreements are effective for the period of 21 and 25 years and can be extended for another period with the conditions as specified in the agreements.

Other agreements

- c) 12 subsidiaries entered into long-term service agreements for power plant equipment. The agreements are effective for the periods of 8 and 9 years commencing from COD and it can be extended for another period with the conditions as specified in the agreements.

On 27 September 2018, a subsidiary extended period of such agreement from 8 years to 22 years. The extension incurred incremental contract cost amounting to Swedish Krona 270.54 million and Baht 87.44 million.

On 29 June 2019, four subsidiaries extended period of such agreements from 8 years to 15 years and 22 years. The extension incurred incremental contract cost amounting to Swedish Krona 818.62 million and Baht 265.21 million.

On 30 December 2019, a subsidiary extended period of such agreements from 8 years to 15 years. The extension incurred incremental contract cost amounting to Swedish Krona 137.33 million and Baht 44.16 million.

- d) On 18 May 2016, a subsidiary entered into land sale and purchase agreements with 2 sellers ("the Sellers") for the purpose of developing 33 solar farm projects. There are 33 agreements, totalling contracts amount is Baht 8,277.25 million. As at 31 December 2020, the subsidiary has remaining deposit for land purchase under such agreements totalling Baht 450.52 million (2019: Baht 450.52 million). Under the agreements, a subsidiary is entitled to receive the return of deposit in case of the transfer of each land is no longer beneficial to a subsidiary.
- e) During 2017, the Group entered into joint investment agreements for granting right to sell electricity with the War Veterans Organization of Thailand and the Agricultural Cooperative under the state agencies' and agricultural cooperatives' solar farm projects B.E. 2560 (2017), totalling 7 projects with the total capacity of 30.83 megawatts. Under such agreements, the Group is required to comply with the conditions specified in the agreements.
- f) On 10 December 2018, a direct subsidiary in Lao PDR entered into a share purchase agreement for the 15% additional investment in its subsidiary. The direct subsidiary paid US Dollar 2 million, equivalent to Baht 60.07 million (2019: US Dollar 2 million, equivalent to Baht 60.31 million) (Note 25) as down payment for the investment. The direct subsidiary is entitled to receive the down payment refunded with interest from the seller if the seller fail to comply with conditions specified in the agreement.
- g) On 24 December 2018, two subsidiaries entered into two land purchase agreements from a seller, totalling Baht 387.15 million for future power plant development projects. As at 31 December 2020, the two subsidiaries had made down payment for land purchase, totalling Baht 63.74 million (2019: Baht 193.57 million). The subsidiaries are entitled to receive the down payment refunded if the seller cannot comply with conditions specified in the agreements.
- h) During 2019, two subsidiaries entered into land purchase agreements from a seller. Total contract amount is Baht 312.00 million for the purpose of future power plant development projects. As at 31 December 2020, the two subsidiaries had made down payment for land purchase, totalling Baht 31.20 million (2019: Baht 31.20 million). The subsidiaries are entitled to receive the down payment refunded if the seller cannot comply with conditions specified in the agreements.

44 Promotional privileges

The Group has been granted promotional privileges by the Office of the Board of Investment (“BOI”) under promotion certificates in respect of electricity and steam generating. The Company and 19 subsidiaries have been granted exemption from certain taxes and duties as detailed in the certificates including exemption from corporate income tax for the period of 4 to 8 years from the date of first revenue. As promoted entities, these subsidiaries are required to comply with the terms and conditions specified in the promotion certificates.

Five subsidiaries in Lao PDR and two subsidiaries in Vietnam, and one subsidiary in Cambodia are also granted with promotional privileges from the Investment Promotion Department in Lao PDR, Vietnam and Cambodia, respectively, for operating business in generating electricity and investing in electric power business. The privileges provide the subsidiaries with exemption from certain taxes and duties as stated in promotion certificates. Privileged period could vary from 3 to 13 years depending on the Investment Promotion Department in each respective country, grantor of the right.

45 Events occurring after the reporting date

- a) On 5 January 2021, Dau Tieng Tay Ninh Energy Joint Stock Company (“DTE”) which is an indirect subsidiary operates DT1 solar power project with 180 MW capacity and DT2 solar power project with 240 MW capacity in Vietnam and the Group held 55% interest, entered into a separation agreement with DT1 Energy Joint Stock Company (“DTE1”), a third party, for transferring net assets of DT1 solar power project including a power purchase agreement with 180 MW capacity to DTE1. The separation process will be completed in 2021. After the separation of DT1 solar power project, the proportion interest of the Group in DTE shall increase from 55% to be 96.25% and the equity megawatt will remain the same as previous at 231 MW.
- b) On 12 January 2021, the Company invested 45% interest in Univenture BGP Co., Ltd. (“UVBGP”) by acquired 2,250,000 newly issued ordinary shares with a par value of Baht 10 each, totaling Baht 22.5 million. As a result, UVBGP becomes an associate of the Group.