

**RATCH Group Public Company Limited
and its subsidiaries**

Financial statements for the year ended
31 December 2022
and
Independent Auditor's Report

Independent Auditor's Report

To the Shareholders of RATCH Group Public Company Limited

Opinion

I have audited the consolidated and separate financial statements of RATCH Group Public Company Limited and its subsidiaries (the "Group") and of RATCH Group Public Company Limited (the "Company"), respectively, which comprise the consolidated and separate statements of financial position as at 31 December 2022, the consolidated and separate statements of comprehensive income, changes in equity and cash flows for the year then ended, and notes, comprising a summary of significant accounting policies and other explanatory information.

In my opinion, the accompanying consolidated and separate financial statements present fairly, in all material respects, the financial position of the Group and the Company, respectively, as at 31 December 2022 and their financial performance and cash flows for the year then ended in accordance with Thai Financial Reporting Standards (TFRSs).

Basis for Opinion

I conducted my audit in accordance with Thai Standards on Auditing (TSAs). My responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Consolidated and Separate Financial Statements* section of my report. I am independent of the Group and the Company in accordance with the *Code of Ethics for Professional Accountants including Independence Standards* issued by the Federation of Accounting Professions that is 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.

Impairment testing of goodwill, right to power purchase agreements and property, plant and equipment particularly the power plants in Australia in the consolidated financial statements and investment in subsidiary in the separate financial statements	
Refer to Notes 3, 10, 12 and 14 to the financial statements.	
The key audit matter	How the matter was addressed in the audit
<p>As at 31 December 2022, the Group holds significant amounts of goodwill, right to power purchase agreements and property, plant and equipment on the consolidated statement of financial position which contains a net book value of goodwill of Baht 175 million and net book value of right to power purchase agreements and property, plant and equipment of Baht 22,997 million together representing approximately 10% of total assets. There is a risk that the carrying values of the Group's goodwill, right to power purchase agreements and property, plant and equipment balances might exceed its recoverable amounts.</p> <p>The Company also has an investment in RH International Corporation Limited ("RHIC"), a subsidiary in Thailand, amounting to Baht 59,775 million which holds, via RH International (Singapore) Corporation Pte. Ltd., investments in the power plants in Australia. The recoverability of the investment in RHIC is a key audit matter because the investments in the power plants in Australia might be impaired.</p> <p>I focused on the estimated value in use of the cash generation units "CGUs" of the operation of the power plants in Australia because the determination of future cash flows and the recoverable amounts are highly judgemental and subject to material uncertainty.</p>	<p>My audit procedures in this area included, among others:</p> <ul style="list-style-type: none"> - assessing the Group's process for identifying indicators of impairment; - assessing the Group's response to the identified impairment indicators; - understanding process for estimating the impairment; - involving KPMG in Australia to assist in evaluating the appropriateness of discount rates applied, which included comparing the weight average cost of capital with sector averages for the relevant markets in which the Group operate and evaluating the appropriateness of the assumptions applied to key inputs such as contracted revenue, prices, operating costs, inflation rate and long-term growth rates, which included comparing these inputs with externally derived data. In addition, KPMG in Australia performed sensitivity analysis, which included assessing the effect of reasonably possible reductions in growth rates and forecast cash flows to evaluate the impact on the CGUs; - assessing the appropriateness of discount rates applied; - involving KPMG in Singapore to evaluate the appropriateness of key assumptions applied in determining the recoverable amounts of the investments in the power generation in Australia, including the consistency of the assumptions with business plans and forecasts used for impairment testing as described in my response above; and - evaluating the adequacy of the financial statements disclosures in accordance with Thai Financial Reporting Standards.

Fair value assessment of net assets acquired from business acquisition	
Refer to Notes 3 and 4 to the financial statements.	
The key audit matter	How the matter was addressed in the audit
<p>On 20 December 2022, the indirect subsidiary acquired the ordinary shares of the group of an international company to jointly operate the projects in Southeast Asia and Australia energy business. The Group appointed an independent appraiser to determine the fair value of net assets acquired from the business acquisition including the consideration transferred which as at the</p>	<p>My audit procedures in this area included, among others:</p> <ul style="list-style-type: none"> - reading the share sale and purchase agreement, evaluating the appropriateness of the identification of the net assets acquired at the date of acquisition; - evaluating significant assumptions underpinning the valuations reference to internal and external

<p>reporting date, the appraisal has not yet been completed and therefore has been recorded at provisional amounts. The consideration transferred is higher than the fair value of the identifiable net assets acquired net of the previous equity interests. The Group recognised goodwill of Baht 9,765 million in the consolidated statement of financial position as at 31 December 2022.</p> <p>Due to the materiality of the transactions and the significant judgement and complexities involved in determining the fair value. I considered this as a key audit matter.</p>	<p>information used to determine the fair value of the business prepared by an independent appraiser appointed by management;</p> <ul style="list-style-type: none"> - evaluate the competency and independence of independent valuer of the Group; - consulting with KPMG valuation specialist to evaluate the appropriateness of financial parameters applied to the discount rate, the valuation methodology and calculation rationale; and - evaluating the adequacy of the financial statements disclosures in accordance with Thai Financial Reporting Standards.
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Emphasis of Matter

I draw attention to note 4 to the financial statements. The Group acquired a business during the year ended 31 December 2022 and engaged an independent appraiser to determine the fair value of the identifiable assets acquired and liabilities assumed from the business acquisitions. As at the reporting date, the appraisal has not yet been completed and therefore the fair value was determined provisionally and is subject to adjustment. Also I draw attention to note 10 to the financial statements, the valuation of net assets of a local entity which the Company acquired on 13 December 2021 was completed in August 2022. The corresponding figures presented are based on the audited financial statements as at 31 December 2021 after making the adjustments described in note 10 to the financial statements. My opinion is not modified in respect of these matters.

Other Information

Management is responsible for the other information. The other information comprises the information included in the annual report, but does not include the consolidated and separate financial statements and 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 those charged with governance and request that the correction be made.

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

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

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

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

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

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 skepticism 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 management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's and the Company's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my auditor's report to the related disclosures in the consolidated and separate financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my auditor's report. However, future events or conditions may cause the Group and the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated and separate financial statements, including the disclosures, and whether the consolidated and separate financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. I am responsible for the direction, supervision and performance of the group audit. I remain solely responsible for my audit opinion.

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

I also provide those charged with governance 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, action taken to eliminate threats or safeguards applied.

From the matters communicated with those charged with governance, 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.

(Vairoj Jindamaneepitak)
Certified Public Accountant
Registration No. 3565

KPMG Phoomchai Audit Ltd.
Bangkok
28 February 2023

RATCH Group Public Company Limited and its subsidiaries
Statement of financial position

Assets	Note	Consolidated		Separate	
		financial statements		financial statements	
		31 December		31 December	
		2022	2021	2022	2021
(Restated)					
(in Baht)					
Current assets					
Cash and cash equivalents	6	34,341,174,186	6,961,494,467	936,197,625	692,550,892
Trade receivables from related parties	5, 7	11,517,678,308	8,934,057,143	-	-
Trade receivables from other parties	7	1,064,676,811	840,139,539	-	-
Other current receivables		1,112,041,003	596,115,967	69,802,548	42,458,153
Advances to and other current receivables from related parties	5	59,817,878	31,468,309	123,392,421	113,960,562
Short-term loans to related parties	5	-	-	143,642,411	185,617,452
Current portion of lease receivable	5	1,983,048,700	3,046,399,369	-	-
Spare parts and supplies	8	1,945,796,919	1,901,844,963	-	-
Other current financial assets	26	3,158,373,423	2,899,229,053	2,601,633,412	335,663,961
Current portion of derivative assets	26	41,601,486	834,220	-	-
Other current assets		259,954,615	104,189,134	7,163,607	6,685,810
Total current assets		55,484,163,329	25,315,772,164	3,881,832,024	1,376,936,830
Non-current assets					
Other non-current financial assets	26	4,032,524,854	4,014,147,802	2,584,604,592	2,152,755,593
Investments in associates	9	10,972,941,780	10,439,216,501	6,431,741,625	6,356,741,625
Investments in subsidiaries	10	-	-	89,383,333,715	55,708,147,476
Investments in joint ventures	9	50,391,978,936	40,627,811,350	6,549,294,884	6,814,073,547
Other non-current receivables from related parties	5	118,108,302	74,159,358	211,868,043	92,218,055
Derivative assets	26	1,405,439,809	-	-	-
Long-term loans to related parties	5, 26	770,633,721	656,164,226	3,854,448,777	2,804,097,662
Long-term loan to other parties	26	4,467,775,558	2,652,435,074	-	-
Investment properties	5	127,980,094	110,827,171	-	-
Land for future development projects	11	355,767,391	372,920,314	305,389,850	305,389,850
Property, plant and equipment	12	52,337,819,832	35,963,878,510	490,225,499	507,170,016
Right-of-use assets	13	3,775,386,378	2,174,445,486	23,422,383	29,835,814
Goodwill	14	9,940,393,701	169,244,256	-	-
Intangible assets other than goodwill	14	9,574,909,109	6,905,408,608	157,803	458,165
Lease receivable	5	23,690,813,005	25,202,498,621	-	-
Deferred tax assets	22	-	97,672,062	-	-
Other non-current assets	15	2,131,645,392	2,238,860,185	4,530,126	4,525,679
Total non-current assets		174,094,117,862	131,699,689,524	109,839,017,297	74,775,413,482
Total assets		229,578,281,191	157,015,461,688	113,720,849,321	76,152,350,312

The accompanying notes form an integral part of the financial statements.

RATCH Group Public Company Limited and its subsidiaries
Statement of financial position

Liabilities and equity	Note	Consolidated		Separate	
		financial statements		financial statements	
		31 December		31 December	
		2022	2021	2022	2021
			(Restated)		
			(in Baht)		
Current liabilities					
Short-term loans from financial institutions	16	8,684,886,812	5,364,895,500	-	2,536,000,000
Short-term loans from related party	5, 16	-	-	5,090,000,000	5,140,000,000
Trade payables and other current payables		11,577,103,291	9,432,804,668	386,853,973	322,094,610
Derivative liabilities	26	656,596,472	346,401,339	-	-
Current portion of long-term loans from financial institutions	16, 26	6,579,960,664	2,670,533,006	-	-
Current portion of debentures	16	999,575,007	1,999,947,476	999,575,007	-
Current portion of lease liabilities	16	171,562,707	161,512,501	14,029,261	15,419,956
Current tax payable		21,555,863	11,053,877	-	-
Other current liabilities		482,064,444	282,739,873	22,276,223	20,701,931
Total current liabilities		29,173,305,260	20,269,888,240	6,512,734,464	8,034,216,497
Non-current liabilities					
Long-term loans from financial institutions	16, 26	55,080,165,147	26,745,189,381	21,484,188,397	5,000,000,000
Long-term loans	16	346,958,672	320,000,000	-	-
Lease liabilities	16	3,192,980,578	1,505,423,086	10,635,897	15,922,023
Other non-current payables to related party	5	-	4,235,284	-	4,235,284
Derivative liabilities	26	3,075,156,685	460,668,505	-	-
Debentures	16, 26	23,919,047,563	22,351,744,059	6,991,871,300	7,989,734,041
Deferred tax liabilities	22	5,607,300,605	4,831,178,820	77,066,081	3,580,208
Non-current provisions for employee benefits	17	293,028,459	266,686,262	193,537,619	179,303,052
Other long-term provisions		1,388,774,687	979,905,914	-	-
Other non-current liabilities		98,294,590	2,600,000	-	-
Total non-current liabilities		93,001,706,986	57,467,631,311	28,757,299,294	13,192,774,608
Total liabilities		122,175,012,246	77,737,519,551	35,270,033,758	21,226,991,105
Equity					
Share capital:	18				
Authorised share capital					
- Ordinary shares		22,192,307,700	14,500,000,000	22,192,307,700	14,500,000,000
Issued and paid-up share capital					
- Ordinary shares		21,749,999,850	14,500,000,000	21,749,999,850	14,500,000,000
Share premium on ordinary shares	18	19,279,777,633	1,531,778,000	19,279,777,633	1,531,778,000
Difference arising from common control transaction		-	-	221,308,748	221,308,748
Retained earnings					
Appropriated					
Legal reserve	18	1,638,780,000	1,450,000,000	1,638,780,000	1,450,000,000
Unappropriated		59,821,028,087	57,924,446,923	35,071,141,316	37,053,961,765
Other components of equity		(4,460,976,921)	(5,069,737,114)	489,808,016	168,310,694
Equity attributable to owners of the Company		98,028,608,649	70,336,487,809	78,450,815,563	54,925,359,207
Non-controlling interests		9,374,660,296	8,941,454,328	-	-
Total equity		107,403,268,945	79,277,942,137	78,450,815,563	54,925,359,207
Total liabilities and equity		229,578,281,191	157,015,461,688	113,720,849,321	76,152,350,312

The accompanying notes form an integral part of the financial statements.

RATCH Group Public Company Limited and its subsidiaries
Statement of comprehensive income

		Consolidated		Separate	
		financial statements		financial statements	
		Year ended 31 December		Year ended 31 December	
	Note	2022	2021	2022	2021
			(Restated)		
			(in Baht)		
Revenue from sales and rendering of services	5, 20	71,882,029,519	35,231,479,642	-	-
Revenue from lease contracts	5	2,843,190,606	2,095,297,401	-	-
Cost of sales and rendering of services	5, 21	(69,286,595,909)	(33,116,498,074)	-	-
Gross profit		5,438,624,216	4,210,278,969	-	-
Management service income	5	275,444,865	224,304,685	503,615,559	429,484,729
Interest income	5	499,612,544	205,354,408	235,467,126	108,542,941
Dividend income	5, 9	26,513,791	58,829,567	2,484,409,404	3,529,325,201
Other income	5	209,055,021	397,952,979	19,875,186	13,829,017
Administrative expenses	5, 21	(2,778,700,632)	(1,707,794,742)	(1,078,091,785)	(878,619,267)
Net gain on bargain purchase		-	227,031,962	-	-
Gain from change in proportion of investment in joint ventures	4	661,079,766	-	-	-
Net foreign exchange gain (loss)		(30,132,370)	206,290,135	79,070,896	205,176,933
Gain (loss) on fair value adjustment of derivatives		(102,457,722)	143,505,823	-	-
Finance costs	5	(2,976,667,556)	(1,868,068,721)	(347,775,305)	(268,397,872)
Share of profit of joint ventures and associates accounted for using equity method	9	5,391,157,218	5,902,400,599	-	-
Profit before income tax expense		6,613,529,141	8,000,085,664	1,896,571,081	3,139,341,682
Tax (expense) income	22	(937,344,240)	(177,173,057)	6,888,458	750,675
Profit for the year		5,676,184,901	7,822,912,607	1,903,459,539	3,140,092,357
Other comprehensive income (expense)					
Items that will be reclassified subsequently to profit or loss					
Exchange differences on translating financial statements		(222,097,212)	3,355,442,936	-	-
Gain (loss) on cash flow hedges		(210,511,392)	613,256,077	-	-
Share of other comprehensive income of joint ventures and associates accounted for using equity method	9	1,765,371,505	1,599,144,613	-	-
Income tax relating to items that will be reclassified	22	(207,018,824)	(11,613,932)	-	-
Total items that will be reclassified subsequently to profit or loss		1,125,744,077	5,556,229,694	-	-
Items that will not be reclassified to profit or loss					
Gain (loss) on investments in equity instruments designated at fair value through other comprehensive income	26	(32,327,860)	123,539,796	401,871,652	264,813,025
Gain on remeasurements of defined benefit plans	17	3,489,816	6,122,618	-	3,318,405
Share of other comprehensive income of joint ventures and associates accounted for using equity method	9	11,933,147	-	-	-
Income tax relating to items that will not be reclassified	22	(80,886,768)	(54,187,128)	(80,374,330)	(53,626,285)
Total items that will not be reclassified to profit or loss		(97,791,665)	75,475,286	321,497,322	214,505,145
Other comprehensive income for the year, net of tax		1,027,952,412	5,631,704,980	321,497,322	214,505,145
Total comprehensive income for the year		6,704,137,313	13,454,617,587	2,224,956,861	3,354,597,502
Profit (Loss) attributable to:					
Owners of the Company		5,782,072,318	7,818,800,200	1,903,459,539	3,140,092,357
Non-controlling interests		(105,887,417)	4,112,407	-	-
Profit for the year		5,676,184,901	7,822,912,607	1,903,459,539	3,140,092,357
Total comprehensive income attributable to:					
Owners of the Company		6,390,832,511	13,295,599,917	2,224,956,861	3,354,597,502
Non-controlling interests		313,304,802	159,017,670	-	-
Total comprehensive income for the year		6,704,137,313	13,454,617,587	2,224,956,861	3,354,597,502
Basic earnings per share (in Baht)	24	3.15	5.39	1.04	2.17

The accompanying notes form an integral part of the financial statements.

RATCH Group Public Company Limited and its subsidiaries
Statement of changes in equity

Consolidated financial statements														
		Retained earnings				Other components of equity								
		Issued and	Share						Share of other	Gains (Losses) on	Total other	Total equity	Non-	Total
	Note	paid-up	premium	Legal reserve	Unappropriated	Translation	Fair value	Hedging	of joint ventures	remeasurements	components	attributable to	controlling	equity
		share capital				reserve	reserve	reserve	and associates	of defined	of equity	owners of	interests	
									using equity	benefit plans		the parent		
									method					
(in Baht)														
Year ended 31 December 2021														
Balance at 1 January 2021		14,500,000,000	1,531,778,000	1,450,000,000	53,585,646,723	(5,527,376,796)	(2,031,012,322)	(937,497,342)	(2,005,003,666)	(45,646,705)	(10,546,536,831)	60,520,887,892	684,409	60,521,572,301
Transactions with owners, recorded directly in equity														
Distributions to owners of the parent														
Dividends	25	-	-	-	(3,480,000,000)	-	-	-	-	-	-	(3,480,000,000)	-	(3,480,000,000)
Total distributions to owners		-	-	-	(3,480,000,000)	-	-	-	-	-	-	(3,480,000,000)	-	(3,480,000,000)
Changes in ownership interests in subsidiaries														
Acquisition of non-controlling interests														
with a change in control - restated		-	-	-	-	-	-	-	-	-	-	-	8,781,752,249	8,781,752,249
Total changes in ownership interests in subsidiaries		-	-	-	-	-	-	-	-	-	-	-	8,781,752,249	8,781,752,249
Total transactions with owners, recorded directly in equity		-	-	-	(3,480,000,000)	-	-	-	-	-	-	(3,480,000,000)	8,781,752,249	5,301,752,249
Comprehensive income for the year - restated														
Profit - restated		-	-	-	7,818,800,200	-	-	-	-	-	-	7,818,800,200	4,112,407	7,822,912,607
Other comprehensive income		-	-	-	-	3,199,773,273	71,341,591	601,642,145	1,599,144,613	4,898,095	5,476,799,717	5,476,799,717	154,905,263	5,631,704,980
Total comprehensive income for the year - restated		-	-	-	7,818,800,200	3,199,773,273	71,341,591	601,642,145	1,599,144,613	4,898,095	5,476,799,717	13,295,599,917	159,017,670	13,454,617,587
Balance at 31 December 2021 - restated		14,500,000,000	1,531,778,000	1,450,000,000	57,924,446,923	(2,327,603,523)	(1,959,670,731)	(335,855,197)	(405,859,053)	(40,748,610)	(5,069,737,114)	70,336,487,809	8,941,454,328	79,277,942,137

The accompanying notes form an integral part of the financial statements.

Statement of changes in equity

The accompanying notes form an integral part of the financial statements.

RATCH Group Public Company Limited and its subsidiaries
Statement of changes in equity

				Separate financial statements					
				Retained earnings		Other components of equity			
	Issued and paid-up share capital	Share premium	Difference arising from common control transaction	Legal reserve	Unappropriated	Fair value reserve	Gain (loss) on remeasurements of defined benefit plans	Total other components of equity	Total equity
	(in Baht)								
Year ended 31 December 2021									
Balance at 1 January 2021	14,500,000,000	1,531,778,000	221,308,748	1,450,000,000	37,393,869,408	-	(46,194,451)	(46,194,451)	55,050,761,705
Transactions with owners, recorded directly in equity									
Distributions to owners of the parent									
Dividends	25	-	-	-	(3,480,000,000)	-	-	-	(3,480,000,000)
Total transactions with owners, recorded directly in equity		-	-	-	(3,480,000,000)	-	-	-	(3,480,000,000)
Comprehensive income for the year									
Profit		-	-	-	3,140,092,357	-	-	-	3,140,092,357
Other comprehensive income		-	-	-	-	211,850,421	2,654,724	214,505,145	214,505,145
Total comprehensive income for the year		-	-	-	3,140,092,357	211,850,421	2,654,724	214,505,145	3,354,597,502
Balance at 31 December 2021	14,500,000,000	1,531,778,000	221,308,748	1,450,000,000	37,053,961,765	211,850,421	(43,539,727)	168,310,694	54,925,359,207

The accompanying notes form an integral part of the financial statements.

RATCH Group Public Company Limited and its subsidiaries
Statement of changes in equity

					Separate financial statements					
					Retained earnings		Other components of equity			
		Issued and paid-up share capital	Share premium	Difference arising from common control transaction	Legal reserve	Unappropriated (in Baht)	Fair value reserve	Loss on remeasurements of defined benefit plans	Total other components of equity	Total equity
Note										
Year ended 31 December 2022										
	Balance at 1 January 2022	14,500,000,000	1,531,778,000	221,308,748	1,450,000,000	37,053,961,765	211,850,421	(43,539,727)	168,310,694	54,925,359,207
Transactions with owners, recorded directly in equity										
Contributions by and distributions to owners of the parent										
	Issue of ordinary shares	18	7,249,999,850	17,747,999,633	-	-	-	-	-	24,997,999,483
	Dividends	25	-	-	-	(3,697,499,988)	-	-	-	(3,697,499,988)
	Total contributions by and distributions to owners of the parent		7,249,999,850	17,747,999,633	-	(3,697,499,988)	-	-	-	21,300,499,495
	Total transactions with owners, recorded directly in equity		7,249,999,850	17,747,999,633	-	(3,697,499,988)	-	-	-	21,300,499,495
Comprehensive income for the year										
	Profit		-	-	-	1,903,459,539	-	-	-	1,903,459,539
	Other comprehensive income		-	-	-	-	321,497,322	-	321,497,322	321,497,322
	Total comprehensive income for the year		-	-	-	1,903,459,539	321,497,322	-	321,497,322	2,224,956,861
	Transfer to Legal Reserve		-	-	-	188,780,000	(188,780,000)	-	-	-
	Balance at 31 December 2022		21,749,999,850	19,279,777,633	221,308,748	1,638,780,000	35,071,141,316	533,347,743	(43,539,727)	489,808,016
										78,450,815,563

The accompanying notes form an integral part of the financial statements.

RATCH Group Public Company Limited and its subsidiaries
Statement of cash flows

		Consolidated		Separate	
		financial statements		financial statements	
		Year ended 31 December		Year ended 31 December	
	Note	2022	2021	2022	2021
			(Restated)		
		(in Baht)			
Cash flows from operating activities					
Profit for the year		5,676,184,901	7,822,912,607	1,903,459,539	3,140,092,357
<i>Adjustments to reconcile profit to cash receipts (payments)</i>					
Tax expense (income)	22	937,344,240	177,173,057	(6,888,458)	(750,675)
Finance costs		2,976,667,556	1,868,068,721	347,775,305	268,397,872
Depreciation	12, 13	2,555,332,921	1,809,336,592	33,396,136	35,435,047
Amortisation	14	481,316,520	340,884,471	300,361	1,299,152
(Reverse of) impairment losses recognised in profit or loss	26	4,937,353	(9,783,590)	18,183,054	(35,441)
Impairment losses on assets		-	82,181,446	-	-
Unrealised gain on foreign exchange		(271,676,596)	(249,286,070)	(42,478,545)	(170,792,923)
(Gain) loss on fair value adjustment of derivatives		102,457,722	(143,505,823)	-	-
(Gain) loss on fair value adjustment of other financial assets	26	(3,826,923)	6,189,553	(10,912,360)	3,580,381
(Gain) loss on disposal of other financial assets		1,920,420	(3,492,979)	2,155,596	904,741
Fair value adjustment of lease receivable and lease adjustment		125,320,338	16,601,706	-	-
Share of profit of joint ventures and associates accounted for using equity method, net of tax	9	(5,391,157,218)	(5,902,400,599)	-	-
Loss on allowance for obsolescence of spare parts and supplies devaluation	8	50,452,593	26,538,833	-	-
(Reversal of) loss on fuel oil devaluation	8	2,161,601	(65,884,276)	-	-
Loss on disposal of spare parts and supplies		13,212,983	-	-	-
Gain on bargain purchase		-	(227,031,962)	-	-
(Gain) loss on write-off and disposal of property, plant and equipment		6,691,942	1,465,705	(1,837)	13
Dividend income	5, 9	(26,513,791)	(58,829,567)	(2,484,409,404)	(3,529,325,201)
Interest income		(499,612,544)	(205,354,408)	(235,467,126)	(108,542,941)
Gain from change in proportion of investment in joint ventures		(661,079,766)	-	-	-
Write-off withholding tax deducted at source and others		2,425,702	4,728,289	2,421,138	4,727,463
		6,082,559,954	5,290,511,706	(472,466,601)	(355,010,155)
Changes in operating assets and liabilities					
Trade receivable from related parties		(2,568,071,021)	(3,426,400,345)	-	-
Trade receivable from other parties		(132,933,771)	(204,079,368)	-	-
Other current receivables		195,481,035	(309,705,548)	(1,007,223)	(1,079,588)
Advances to and other current receivables from related parties		(26,867,332)	30,653,167	(9,562,049)	23,900,188
Lease receivable		3,052,728,531	2,575,600,533	-	-
Spare parts and supplies		227,574,180	193,591,713	-	-
Other current assets and other non-current assets		(324,052,351)	(65,911,076)	(510,460)	15,866,985
Trade payable and other current payables		1,680,532,977	3,336,179,182	45,914,548	(8,168,276)
Other current liabilities		180,002,422	(84,588,048)	1,090,474	155,132
Non-current provisions for employee benefits		13,818,931	61,256	14,234,568	4,213,468
Long-term provisions		17,103,150	38,718,499	-	-
Net cash generated from (used in) operating		8,397,876,705	7,374,631,671	(422,306,743)	(320,122,246)
Taxes paid		(893,109,173)	(221,060,381)	(12,372,274)	(14,410,921)
Net cash from (used in) operating activities		7,504,767,532	7,153,571,290	(434,679,017)	(334,533,167)

The accompanying notes form an integral part of the financial statements.

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Statement of cash flows

		Consolidated		Separate	
		financial statements		financial statements	
		Year ended 31 December		Year ended 31 December	
	Note	2022	2021	2022	2021
			(Restated)		
		(in Baht)			
Cash flows from investing activities					
Payments for investments in joint ventures	9	(6,034,762,606)	(971,915,417)	(720,030,000)	(467,816,856)
Payments for investments in associates	9	(75,000,000)	(3,632,590,346)	(75,000,000)	(3,212,137,625)
Acquisition of subsidiaries, net of cash acquired	4, 10	(14,759,909,647)	(2,577,327,115)	-	(3,412,537,502)
Payments for investment in subsidiaries	10	-	-	(32,690,377,575)	(1,459,000,000)
Net cash inflow (outflow) in other current financial assets		(301,799,199)	860,981,364	(2,300,152,153)	864,901,534
Net cash outflow in other non-current financial assets		-	(1,747,705,339)	-	(1,557,705,339)
Proceeds from repayment of short-term loans to related parties	5	-	-	99,500,000	92,000,000
Short-term loans to related parties	5	-	-	(54,500,000)	(217,000,000)
Long-term loans to related parties	5	(101,199,860)	(63,353,000)	(1,013,149,860)	(878,673,000)
Long-term loan to other party	9	(1,736,180,680)	-	-	-
Proceeds from sale of property, plant and equipment		47,120,158	367,211	1,860	-
Payment for acquisition of plant and equipment		(2,375,498,089)	(1,893,530,865)	(945,207)	(5,093,295)
Proceeds (payment) for acquisition of intangible assets		(10,510,916)	392,681	-	-
Dividends received		2,810,195,022	2,208,834,448	2,484,409,404	3,529,325,201
Interest received		318,560,068	167,101,100	96,461,536	64,369,246
Net cash used in investing activities		(22,218,985,749)	(7,648,745,278)	(34,173,781,995)	(6,659,367,636)
Cash flows from financing activities					
Proceeds from short-term loans from financial institutions	16	23,194,886,361	21,161,590,400	6,103,000,000	12,829,000,000
Repayment for short-term loans from financial institutions	16	(20,069,166,010)	(17,133,534,700)	(8,639,000,000)	(10,293,000,000)
Proceeds from long-term loans from financial institutions	16	35,155,139,755	5,767,013,011	16,500,000,000	5,000,000,000
Repayment for long-term loans from financial institutions	16	(13,309,118,633)	(2,055,422,234)	-	-
Proceeds from short-term loans from related party	5, 16	-	-	-	1,750,000,000
Repayment for short-term loans from related party		-	-	(50,000,000)	(75,000,000)
Proceeds from long-term loans from related party		26,958,672	-	-	-
Payment of lease liabilities	13, 16	(187,271,710)	(159,382,147)	(17,761,990)	(18,791,737)
Proceeds from issue of debentures	16	2,650,000,000	-	-	-
Dividend paid to owners of the Company		(3,697,016,172)	(3,480,222,463)	(3,697,016,172)	(3,480,222,464)
Dividend paid to non-controlling interests		(364,367,624)	-	-	-
Finance costs paid		(3,199,982,482)	(1,715,470,073)	(345,113,576)	(256,968,962)
Repayment of debenture	16	(2,000,000,000)	-	-	-
Proceeds from the issuance of shares		24,997,999,483	-	24,997,999,483	-
Net cash from financing activities		43,198,061,640	2,384,571,794	34,852,107,745	5,455,016,837
Net increase (decrease) in cash and cash equivalents,					
before effect of exchange rates		28,483,843,423	1,889,397,806	243,646,733	(1,538,883,966)
Effect of exchange rate changes on cash and cash equivalents		(1,104,163,704)	215,507,811	-	-
Net increase (decrease) in cash and cash equivalents		27,379,679,719	2,104,905,617	243,646,733	(1,538,883,966)
Cash and cash equivalents at 1 January		6,961,494,467	4,856,588,850	692,550,892	2,231,434,858
Cash and cash equivalents at 31 December		34,341,174,186	6,961,494,467	936,197,625	692,550,892

The accompanying notes form an integral part of the financial statements.

RATCH Group Public Company Limited and its subsidiaries
Notes to the financial statements
For the year ended 31 December 2022

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These notes form an integral part of the financial statements.

The financial statements issued for Thai statutory and regulatory reporting purposes are prepared in the Thai language. These English language financial statements have been prepared from the Thai language statutory financial statements, and were approved and authorised for issue by the Board of Directors on 28 February 2023.

1 General information

RATCH Group Public Company Limited, the “Company”, is incorporated in Thailand and was listed on the Stock Exchange of Thailand in October 2000. The Company’s registered office is at 72 Ngamwongwan Road, Bangkok, Nonthaburi, Nonthaburi, Thailand.

The Company’s major shareholder during the financial year was Electricity Generating Authority of Thailand (“EGAT”) (45% shareholding), which was incorporated in Thailand.

The principal businesses of the Company are the investing in companies, whose objectives are to generate and sell electricity, develop power energy project and infrastructure project. Details of the Company’s subsidiaries, associates and joint ventures as at 31 December 2022 and 2021 are given in note 9 and 10.

2 Basis of preparation of the financial statements

The financial statements are prepared in accordance with Thai Financial Reporting Standards (“TFRS”), guidelines promulgated by the Federation of Accounting Professions and applicable rules and regulations of the Thai Securities and Exchange Commission. The financial statements are presented in Thai Baht, which is the Company’s functional currency. The accounting policies, described in note 3, have been applied consistently to all periods presented in these financial statements.

The Group has adopted the reliefs in accordance with TFRS No. 9 “*Financial Instruments*” and TFRS No. 7 “*Disclosure of Financial Instruments*”, which apply to transactions directly affected by interest rate benchmark reform (IBOR). The Group is currently in the process of preparing to amend contractual terms in order to response to IBOR reform.

3 Significant accounting policies

(a) Basis of consolidation

The consolidated financial statements relate to the Company and its subsidiaries (together referred to as the “Group”) and the Group’s interests in associates and joint ventures.

Subsidiaries are entities controlled by the Group. The Group controls an entity when it 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. The financial statements of subsidiaries are included in the consolidated financial statements from the date on which control commences until the date on which control ceases.

At the acquisition date, the Group measures any non-controlling interest at its proportionate interest in the identifiable net assets of the acquiree. In addition, when there is a change in the Group’s interest in a subsidiary that does not result in a loss of control, any difference between the amount by which the non-controlling interests are adjusted and the fair value of the consideration paid from the acquisition of the non-controlling interests with no change in control is accounted for as other surplus/deficit in shareholders’ equity.

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Associates are those entities in which the Group has significant influence, but not control or joint control, over the financial and operating policies. A joint venture is an arrangement in which the Group has joint control, whereby the Group has rights to the net assets of the arrangement, rather than rights to its assets and obligations for its liabilities.

The Group recognised investments in associates and joint ventures using the equity method in the consolidated financial statements. They are initially recognised at cost, which includes transaction costs. Subsequent to initial recognition, the consolidated financial statements include the Group's dividend income and share of the profit or loss and other comprehensive income of equity-accounted investees, until the date on which significant influence or joint control ceases.

Intra-group balances and transactions, and any unrealised income or expenses arising from intra-group transactions, are eliminated on consolidation. Unrealised gains arising from transactions with associates and joint ventures are eliminated against the investment to the extent of the Group's interest in the investee. Unrealised losses are eliminated in the same way as unrealised gains, but only to the extent that there is no evidence of impairment.

Business combinations

The Group applies the acquisition method when the Group assess that the acquired set of activities and assets include, at a minimum, an input and a substantive process that together significantly contribute to the ability to create output. The acquisition date is the date on which control is transferred to the Group, other than business combinations with entities under common control. Expenses in connection with a business combination are recognised as incurred.

Goodwill is measured as the fair value of the consideration transferred including the recognised amount of any non-controlling interest in the acquiree, less net fair value of the identifiable assets acquired and liabilities assumed. Any gain on bargain purchase is recognised in profit or loss immediately.

Consideration transferred includes assets transferred, liabilities incurred by the Group to the previous owners of the acquiree, any contingent consideration and equity interests issued by the Group.

Any contingent consideration is measured at fair value at the date of acquisition and remeasured at fair value at each reporting date. Subsequent changes in the fair value are recognised in profit or loss.

A contingent liability of the acquiree is assumed in a business combination only if such a liability represents a present obligation and arises from a past event, and its fair value can be measured reliably.

If the initial accounting for a business combination is incomplete by the end of the reporting period in which the combination occurs, the Group estimates provisional amounts for the items for which the accounting is incomplete. Those provisional amounts are adjusted during the measurement period, or additional assets or liabilities are recognised, to reflect new information obtained about facts and circumstances that existed at the acquisition date that, if known, would have affected the amounts recognised at that date.

When a business combination is achieved in stages, the Group's previously held equity interest in the acquiree is remeasured to its acquisition-date fair value and the resulting gain or loss, if any, is recognised in profit or loss. Amounts arising from interests in the acquiree prior to the acquisition date that have previously been recognised in other comprehensive income are recognised as would be required if that interest were disposed of.

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Business combinations under common control are accounted for using a method similar to the pooling of interest method, by recognising assets and liabilities of the acquired businesses at their carrying amounts in the consolidated financial statements of the ultimate parent company at the moment of the transaction. The difference between the carrying amount of the acquired net assets and the consideration transferred is recognised as surplus or deficit from business combinations under common control in shareholder's equity. The surplus or deficit will be written off upon divestment of the businesses acquired. The results from operations of the acquired businesses will be included in the consolidated financial statements of the acquirer from the beginning of the comparative period or the moment the businesses came under common control, whichever date is later, until control ceases.

(b) *Investments in subsidiaries, associates and joint ventures*

Investments in subsidiaries, associates and joint ventures in the separate financial statements are measured at cost less allowance for impairment losses. Dividend income is recognised in profit or loss on the date on which the Group's right to receive payment is established. If the Company disposes of part of its investment, the deemed cost of the part sold is determined using the weighted average method. Gains and losses on disposal of the investments are recognised in profit or loss.

(c) *Foreign currencies*

Transactions in foreign currencies including non-monetary assets and liabilities denominated in foreign currencies are translated to the respective functional currencies of each entities in the Group at the dates of the transactions. Monetary assets and liabilities denominated in foreign currencies are translated at the exchange rate at the reporting date. Non-monetary assets and liabilities measured at fair value in foreign currencies are translated at the exchange rates at the dates that fair value was determined.

Foreign currency differences are generally recognised in profit or loss. However, foreign currency differences arising from the translation of the following items are recognised in other comprehensive income:

- an investment in equity securities designated as at FVOCI (except on impairment, in which case foreign currency differences that have been recognised in other comprehensive income are reclassified to profit or loss); and
- qualifying cash flow hedges to the extent the hedge is effective.

Foreign operations

The assets and liabilities of foreign operations, including goodwill and fair value adjustments arising on acquisition, are translated to Thai Baht at the exchange rates at the reporting date. The revenues and expenses of foreign operation are translated to Thai Baht at rates approximating the exchange rates at the dates of the transactions.

Foreign exchange differences are recognised in other comprehensive income and accumulated in the translation reserve until disposal of the investment, except to extent that the translation difference is allocated to non-controlling interest.

When a foreign operation is disposed of in its entirety or partially such that control, significant influence or joint control is lost, the cumulative amount in the translation reserve related to that foreign operation is reclassified to profit or loss as part of the gain or loss on disposal. If the Group disposes of part of its interest in a subsidiary but retains control, then the relevant proportion of the cumulative amount is reattributed to non-controlling interests. When the Group disposes of only part of an associate or joint venture while retaining significant influence or joint control, the relevant proportion of the cumulative amount is reclassified to profit or loss.

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When the settlement of a monetary item receivable from or payable to a foreign operation is neither planned nor likely in the foreseeable future, exchange gains and losses arising from such a monetary item are considered to form part of a net investment in a foreign operation and are recognised in other comprehensive income, and presented in the translation reserve in equity until disposal of the investment.

(d) Financial instruments

(d.1) Classification and measurement

Financial assets and financial liabilities (except trade accounts receivables) are initially recognised when the Group becomes a party to the contractual provisions of the instrument, and measured at fair value plus or minus, for an item not at fair value through profit or loss (FVTPL), transaction costs that are directly attributable to its acquisition or issue.

On initial recognition, a financial asset is classified as measured at: amortised cost; fair value through other comprehensive income (FVOCI); or FVTPL. Financial assets are not reclassified subsequent to their initial recognition unless the Group changes its business model for managing financial assets, in which case all affected financial assets are reclassified prospectively from the reclassification date.

On initial recognition, financial liabilities are classified as measured at amortised cost using the effective interest method or FVTPL. Interest expense, foreign exchange gains and losses and any gain or loss on derecognition are recognised in profit or loss.

Financial assets measured at amortised costs are subsequently measured at amortised cost using the effective interest method. The amortised cost is reduced by expected credit losses. Interest income, foreign exchange gains and losses, expected credit loss and any gain or loss on derecognition are recognised in profit or loss.

Debt investments measured at FVOCI are subsequently measured at fair value. Interest income calculated using the effective interest method, foreign exchange gains and losses and expected credit loss are recognised in profit or loss. Other net gains and losses are recognised in OCI. On derecognition, gains and losses accumulated in OCI are reclassified to profit or loss.

Equity investments measured at FVOCI are subsequently measured at fair value. Dividend income is recognised as income in profit or loss on the date on which the Group's right to receive payment is established, unless the dividend clearly represents a recovery of part of the cost of the investment. Other net gains and losses are recognised in OCI and are never reclassified to profit or loss.

(d.2) Derecognition and offset

The Group derecognises a financial asset when the contractual rights to receive the cash flows from the financial asset expire, or it transfers the rights to receive the contractual cash flows in a transaction in which substantially all of the risks and rewards of ownership of the financial asset are transferred or in which the Group neither transfers nor retains substantially all of the risks and rewards of ownership and it does not retain control of the financial asset.

The Group derecognises a financial liability when its contractual obligations are discharged or cancelled or expire. The Group also derecognises a financial liability when its terms are modified and the cash flows of the modified liability are substantially different, in which case a new financial liability based on the modified terms is recognised at fair value.

The difference between the carrying amount extinguished and the consideration received or paid is recognised in profit or loss.

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Interest rate benchmark reform

When the basis of determining the contractual cash flows of a financial asset or financial liability measured at amortised cost changed as a result of interest rate benchmark reform (IBOR reform), the Group first updated the effective interest rate of the financial asset or financial liability to reflect the change that is required by IBOR reform. If there were any other additional changes, the Group applied the policies on accounting for modifications to those changes.

Financial assets and financial liabilities are offset, and the net amount presented in the statement of financial position when, and only when, the Group currently has a legally enforceable right to set off the amounts and the Group intends either to settle them on a net basis or to realise the asset and settle the liability simultaneously.

(d.3) Derivatives

Derivative are recognised at fair value and remeasured at fair value at each reporting date. The gain or loss on remeasurement to fair value is recognised immediately in profit or loss, except where the derivatives qualify for cash flow hedge accounting or hedges of net investment in a foreign operation, in which case recognition of any resultant gain or loss depends on the nature of the item being hedged.

(d.4) Energy derivatives

Energy derivatives are recognised at fair value which determined as the present value of future contracted cash flows. The future cash flows are discounted using standard valuation techniques at applicable market yield having regard to timing of cash flows. The effective portion of changes in the fair value of the energy derivatives is recognised in OCI. Any ineffective portion of changes in the fair value of the energy derivatives is recognised immediately in profit or loss.

(d.5) Hedging

At inception of designated hedging relationships, the Group documents the risk management objective and strategy for undertaking the risk, the economic relationship between the hedged item and the hedging instrument, including consideration of the hedge effectiveness at the inception of the hedging relationship and throughout the remaining period to determine the existence of economic relationship between the hedged item and the hedging instrument.

Cash flow hedges

When a derivative is designated as a cash flow hedging instrument, the effective portion of changes in the fair value of the derivative is recognised in OCI and accumulated in the hedging reserve. Any ineffective portion of changes in the fair value of the derivative is recognised immediately in profit or loss.

The Group designates only the change in fair value of the spot element of forward exchange contracts as the hedging instrument in cash flow hedging relationships. The change in fair value of the forward element of forward exchange contracts (forward points) is recognised in a cash flow hedging reserve within equity.

When the hedged forecast transaction subsequently results in the recognition of a non-financial item such as inventory, the amount accumulated in the cash flow hedging reserve is included directly in the initial cost of the non-financial item when it is recognised.

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For all other hedged forecast transactions, the amount accumulated in the cash flow hedging reserve is reclassified to profit or loss in the same period or periods during which the hedged expected future cash flows affect profit or loss.

If the hedge no longer meets the criteria for hedge accounting or the hedging instrument is sold, expires, is terminated or is exercised, then hedge accounting is discontinued prospectively. When hedge accounting for cash flow hedges is discontinued, the amount that has been accumulated in the cash flow hedging reserve remains in equity until, for a hedge of a transaction resulting in the recognition of a non-financial item, it is included in the non-financial item's cost on its initial recognition or, for other cash flow hedges, it is reclassified to profit or loss in the same period or periods as the hedged expected future cash flows affect profit or loss.

If the hedged future cash flows are no longer expected to occur, then the amounts that have been accumulated in the cash flow hedging reserve are immediately reclassified to profit or loss.

(d.6) Impairment of financial assets other than trade accounts receivables

The Group recognises allowances for expected credit losses (ECLs) on financial assets measured at amortised cost, debt investments measured at FVOCI, lease receivables, and loan commitments issued which are not measured at FVTPL.

The Group recognises ECLs equal to 12-month ECLs unless there has been a significant increase in credit risk of the financial instrument since initial recognition or credit-impaired financial assets, in which case the loss allowance is measured at an amount equal to lifetime ECLs.

ECLs are a probability-weighted estimate of credit losses based on forward-looking and historical experience. Credit losses are measured as the present value of all cash shortfalls discounted by the effective interest rate of the financial asset.

The Group considers a financial asset to have low credit risk when its credit rating is equivalent to the globally understood definition of 'investment grade'. The Group recognises ECLs for low credit risk financial asset as 12-month ECLs.

The Group assumes that the credit risk on a financial asset has increased significantly if it is more than 30 days past due, significant deterioration in credit rating, significant deterioration in the operating results of the debtor and existing or forecast changes in the technological, market, economic or legal environment that have a significant adverse effect on the debtor's ability to meet its obligation to the Group.

The Group considers a financial asset to be in default when:

- the debtor is unlikely to pay its credit obligations to the Group in full, without recourse by the Group takes action such as realising security (if any is held); or
- the financial asset is over the payment specified in the contract

(d.7) Write offs

The gross carrying amount of a financial asset is written off when the Group has no reasonable expectations of recovering. Subsequent recoveries of an asset that was previously written off, are recognised as a reversal of impairment in profit or loss in the period in which the recovery occurs.

(e) Cash and cash equivalents

Cash and cash equivalents comprise cash balances, call deposits and highly liquid short-term investments which have maturities of three months or less from the date of acquisition.

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(f) Trade and other accounts receivable

A receivable is recognised when the Group has an unconditional right to receive consideration. A receivable is measured at transaction price less allowance for expected credit loss. Bad debts are written off when incurred.

The Group estimates lifetime expected credit losses (ECLs), using a provision matrix to find the ECLs rates. This method groups the debtors based on shared credit risk characteristics and past due status, taking into account historical credit loss data, adjusted for factors that are specific to the debtors and an assessment of both current economic conditions and forward-looking general economic conditions at the reporting date.

(g) Spare parts and supplies

Spare parts and supplies are measured at the lower of cost and net realisable value. Spare parts comprise fuel oil and supplies which are used for specific equipment in the power plant. Cost is calculated using the moving average cost principle and comprises all costs of purchase and other costs incurred in bringing the spare parts and supplies to their present location and condition. Net realisable value is the estimated selling price in the ordinary course of business less the estimated costs to complete and to make the sale.

The allowance for obsolescence of spare parts is calculated from the balances of spare parts at the end of year on a straight-line basis to write-down the spare parts over the remaining useful lives of power plants.

(h) Property, plant and equipment

Property, plant and equipment are measured at cost less accumulated depreciation and impairment losses.

Cost includes expenditure that is directly attributable to the acquisition of the asset. The cost of self-constructed assets includes the cost of materials and direct labour, any other costs directly attributable to bringing the assets to a working condition for their intended use, the costs of dismantling and removing the items and restoring the site on which they are located, and capitalised borrowing costs. Purchased software that is integral to the functionality of the related equipment is capitalised as part of that equipment.

When parts of an item of property, plant and equipment have different useful lives, they are accounted for as separate items (major components) of property, plant and equipment.

Any gains and losses on disposal of item of property, plant and equipment are determined by comparing the proceeds from disposal with the carrying amount of property, plant and equipment, and are recognised in profit or loss.

Subsequent costs

The cost of replacing a part of an item of property, plant and equipment is recognised in the carrying amount of the item if it is probable that the future economic benefits embodied within the part will flow to the Group, and its cost can be measured reliably. The carrying amount of the replaced part is derecognised. The costs of the day-to-day servicing of property, plant and equipment are recognised in profit or loss as incurred.

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Depreciation

Depreciation is calculated on a straight-line basis over the estimated useful lives of each component of an asset and recognised in profit or loss. No depreciation is provided on freehold land and assets under construction.

The estimated useful lives are as follows:

Buildings and other constructions	20 - 42	years
Building improvements	3 - 6	years
Power plants, substation and transmission systems	4 - 45	years
Operating and maintenance equipment	3 - 15	years
Furniture, fixtures and office equipment	3 - 15	years
Vehicles	5	years

(i) Goodwill

Goodwill is measured at cost less accumulated impairment losses. In respect of equity-accounted investee, the carrying amount of goodwill is included in the carrying amount of the investment.

(j) Project development expenditure

Project development expenditure is recognised in profit or loss as incurred. Project development expenditure is capitalised only if development costs can be measured reliably, the product or process is technically and commercially feasible, future economic benefits are probable, and the Group intends to use or sell the asset. The expenditure capitalised includes borrowing costs. Other development expenditure is recognised in profit or loss as incurred.

Capitalised development expenditure is measured at cost less impairment losses. Capitalised development expenditure will be amortised when it is available for use in the manner intended.

(k) Other Intangible assets

Other intangible assets are measured at cost less accumulated amortisation and impairment losses. Subsequent expenditure is capitalised only when it will generate the future economic benefits. Amortisation is calculated on a straight-line basis over the estimated useful lives of intangible assets and recognised in profit or loss.

The estimated useful lives are as follows:

Software licences	3 - 10	years
Licenses on project development	25	years
Right to power purchase agreements	9 - 30	years
Right to use transmission systems	6 - 30	years

(l) Leases

At inception of a contract, the Group assesses that a contract is, or contains, a lease when it conveys the right to control the use of an identified asset for a period of time in exchange for consideration.

As a lessee

At commencement or on modification of a contract that contains a lease component and the leases of property the Group has elected not to separate non-lease components and account for the lease and non-lease components as a single lease component.

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The Group recognises a right-of-use asset and a lease liability at the lease commencement date, except for leases of low-value assets and short-term leases which are recognised as expenses on a straight-line basis over the respective lease terms.

Right-of-use asset is measured at cost, less any accumulated depreciation and impairment loss, and adjusted for any remeasurements of lease liability. The cost of right-of-use asset includes the initial amount of the lease liability adjusted for prepaid lease payment, plus any initial direct costs incurred. Depreciation is charged to profit or loss on a straight-line method from the commencement date to the end of the lease term, unless the lease transfers ownership of the underlying asset to the Group by the end of the lease term or the cost of the right-of-use asset reflects that the Group will exercise a purchase option. In that case the right-of-use asset will be depreciated over the useful life of the underlying asset, which is determined on the same basis as those of property and equipment.

The lease liability is initially measured at the present value of all lease payments that shall be paid under the lease. The Group uses the Group's incremental borrowing rate to discount the lease payments to the present value. The Group determines its incremental borrowing rate by obtaining interest rates from various external financing sources and makes certain adjustments to reflect the terms of the lease and type of the asset leased.

The lease liability is measured at amortised cost using the effective interest method. It is remeasured when there is a lease modification. When the lease liability is remeasured, a corresponding adjustment is made to the carrying amount of the right-of-use asset or is recorded in profit or loss if the carrying amount of the right-of-use asset has been reduced to zero.

As a lessor

At inception or on modification of a contract, the Group allocates the consideration in the contract to each component on the basis of their relative standalone selling prices.

At lease inception, the Group considers to classify a lease that transfers substantially all of the risks and rewards incidental to ownership of the underlying asset to lessees as a finance lease. A lease that does not meet this criteria is classified as an operating lease.

The Group recognises finance lease receivables at the amount of the Group's net investment in the lease, which comprises the present value of the lease payments and any unguaranteed residual value, discounted using the interest rate implicit in the lease. Finance lease income is allocated to accounting periods so as to reflect a constant periodic rate of return on the Group's net investment outstanding in respect of the leases.

The Group recognises lease payments received under operating leases as rental income on a straight-line basis over the lease term as part of other income. Initial direct costs incurred in arranging an operating lease are added to the carrying amount of the leased asset and recognised over the lease term on the same basis as rental income. Contingent rents are recognised as rental income in the accounting period in which they are earned.

The Group derecognises and determines impairment on the lease receivables as disclosed in note 3(d)

(m) Impairment of non-financial assets

The carrying amounts of the Group's assets are reviewed at each reporting date to determine whether there is any indication of impairment. If any such indication exists, the assets' recoverable amounts are estimated. For goodwill and intangible assets that have indefinite useful lives or are not yet available for use, the recoverable amount is estimated each year at the same time.

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An impairment loss is recognised in profit or loss if the carrying amount of an asset or its cash-generating unit exceeds its recoverable amount, unless it reverses a previous revaluation credited to equity, in which case it is charged to equity.

The recoverable amount is the greater of the asset's value in use and fair value less costs to sell. In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset. For an asset that does not generate cash inflows largely independent of those from other assets, the recoverable amount is determined for the cash-generating unit to which the asset belongs.

An impairment loss of asset recognised in prior periods is reversed if there has been a change in the estimates used to determine the recoverable amount. An impairment loss is reversed only to the extent that the asset's carrying amount does not exceed the carrying amount that would have been determined, net of depreciation or amortisation, if no impairment loss had been recognised.

(n) Employee benefits

Defined contribution plan

Obligations for contributions to the Group's provident funds are expensed as the related service is provided.

Defined benefit plans

The Group's net obligation in respect of defined benefit plans is calculated by estimating the amount of future benefit that employees have earned in the current and prior periods. The defined benefit obligations is discounted to the present value, which performed annually by a qualified actuary using the projected unit credit method.

Remeasurements of the net defined benefit liability, actuarial gain or loss are recognised immediately in OCI. The Group determines the interest expense on the net defined benefit liability for the period by applying the discount rate used to measure the defined benefit obligation at the beginning of the annual period, taking into account any changes in the net defined benefit liability during the period as a result of contributions and benefit payments. Net interest expense and other expenses related to defined benefit plans are recognised in profit or loss.

When the benefits of a plan are changed or when a plan is curtailed, the resulting change in benefit that relates to past service or the gain or loss on curtailment is recognised immediately in profit or loss. The Group recognises gains and losses on the settlement of a defined benefit plan when the settlement occurs.

Short-term employee benefits are expensed as the related service is provided. A liability is recognised for the amount expected to be paid if the Group has a present legal or constructive obligation to pay this amount as a result of past service provided by the employee and the obligation can be estimated reliably.

(o) Provisions

A provision is recognised if, as a result of a past event, the Group has a present legal or constructive obligation that can be estimated reliably, and it is probable that an outflow of economic benefits will be required to settle the obligation. Provisions are determined by discounting the expected future cash flows at a pre-tax rate that reflects current market assessments of the time value of money and the risks specific to the liability. The unwinding of the discount is recognised as finance cost.

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(p) Fair value measurement

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date in the principal or, in its absence, the most advantageous market to which the Group has access at that date. The fair value of a liability reflects its non-performance risk.

When measuring the fair value of an asset or a liability, the Group uses observable market data as far as possible. Fair values are categorised into different levels in a fair value hierarchy based on the inputs used in the valuation techniques as follows:

- Level 1: quoted prices in active markets for identical assets or liabilities.
- Level 2: inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly.
- Level 3: inputs for the asset or liability that are based on unobservable input.

If an asset or a liability measured at fair value has a bid price and an ask price, then the Group measures assets and asset positions at a bid price and liabilities and liability positions at an ask price.

The best evidence of the fair value of a financial instrument on initial recognition is normally the transaction price - i.e. the fair value of the consideration given or received. If the Group determines that the fair value on initial recognition differs from the transaction price, the financial instrument is initially measured at fair value adjusted for the difference between the fair value on initial recognition and the transaction price and the difference is recognised in profit or loss immediately. However, for the fair value categorised as level 3, such difference is deferred and will be recognised in profit or loss on an appropriate basis over the life of the instrument or until the fair value level is transferred or the transaction is closed out.

(q) Revenue

Revenue is recognised when a customer obtains control of the goods or services in an amount that reflects the consideration to which the Group expects to be entitled, excluding those amounts collected on behalf of third parties, value added tax and is after deduction of any trade discounts.

Revenue from sales of electricity

Revenue from sales of electricity comprises of revenue from energy payment and revenue from availability payment in terms of operating costs.

Revenue from availability payment in terms of operating costs is a revenue that reflects the fixed operation and maintenance expenses ("Fixed O&M"), maintenance parts expenses and administrative expenses. The availability payment rate is fixed at an amount per Kilowatt based on the availability hours of each year throughout the period of the Power Purchase Agreement. Each Power Purchase Agreement of the Group has different terms and conditions for receiving the revenue from availability payment in terms of operating costs.

The Group recognise revenue from availability payment in terms of operating costs by varying the Contracted Available Hours (CAH) in a year and the Base Availability Credit (BAC).

Revenue from rendering of services

Revenue from rendering of services is recognised over time as the services are provided. The related costs are recognised in profit or loss when they are incurred.

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Revenue from lease contracts

Revenue from lease contracts is recognised in profit or loss by using the effective interest rate method over the period of the power purchase agreements.

(r) Income tax

Income tax expense for the year comprises current and deferred tax, which is recognised in profit or loss except to the extent that it relates to a business combination, or items recognised directly in equity or in other comprehensive income.

Current tax is recognised in respect of the taxable income or loss for the year, using tax rates enacted or substantively enacted at the reporting date, and any adjustment to tax payable in respect of previous years.

Deferred tax is recognised in respect of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for taxation purposes. Deferred tax is not recognised for the temporary differences: the initial recognition of goodwill; the initial recognition of assets or liabilities in a transaction that is not a business combination and that affects neither accounting nor taxable profit or loss; and differences relating to investments in subsidiaries and joint ventures to the extent that it is probable that they will not reverse in the foreseeable future.

The measurement of deferred tax reflects the tax consequences that would follow the manner in which the Group expects, at the end of the reporting period, to recover or settle the carrying amount of its assets and liabilities, using tax rates enacted or substantively enacted at the reporting date. Current deferred tax assets and liabilities are offset in the separate financial statements.

A deferred tax asset is recognised to the extent that it is probable that future taxable profits will be available against which the temporary differences can be utilised. Deferred tax assets are reviewed at each reporting date and reduced to the extent that it is no longer probable that the related tax benefit will be realised.

(s) Earnings per share

Basic earnings per share is calculated by dividing the profit or loss attributable to ordinary shareholders of the Company by the weighted average number of ordinary shares outstanding during the year.

4 Business acquisition

Acquiring shares to invest in Nexif Energy Holding B.V. ("NEHBV")

On 20 December 2022, RH International (Singapore) Corporation Pte. Ltd. ("RHIS"), an indirect subsidiary of the Company, acquired shares in Nexif Energy Holding B.V. ("NEHBV") which hold the asset of renewable energy power plants, gas turbine power plant, combined cycle power plant and battery energy storage system in Thailand, the Commonwealth of Australia and the Socialist Republic of Vietnam in proportion of investment of 100% amounting to US Dollars 480.78 million or equivalent to Baht 16,617 million.

According to the above acquisition, the Group has engaged an independent appraiser to determine the fair values of net assets and liabilities acquired. As at 31 December 2022, the determination of the fair values has not been completed. Therefore, the Group has recorded at provisional amounts in consolidated statement of financial position as at 31 December 2022. The fair value of assets acquired and liabilities assumed may be adjusted when the appraiser's report is completed.

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The Group has continuously reviewed fair values of the business acquired within one year from the acquisition date, taking into accounts additional information, facts as well as circumstances that existed at the acquisition date. Consequently, the adjustments on accounting transaction of such acquisition will be made.

Assets acquired and liabilities assumed at the acquisition date:

	Fair value <i>(in thousand Baht)</i>
Cash and cash equivalents	1,902,217
Trade and other receivables	443,726
Inventories	344,176
Property, plant and equipment	17,470,356
Intangible assets	3,064,021
Other assets	2,267,259
Trade and other payables	(776,901)
Loans	(11,377,931)
Lease liabilities	(1,710,978)
Deferred tax liabilities	(560,564)
Other liabilities	(1,902,151)
Total identifiable net assets	9,163,230
Less Non-controlling interests	(530,435)
Total identifiable net assets received	8,632,795
Fair value of an existing interest in NRES before business combination	(1,781,410)
Goodwill arising from the acquisition	9,765,364
Purchase consideration transferred	16,616,749
Net cash acquired	(1,902,217)
Net cash outflows	14,714,532

The Group incurred acquisition-related costs of Baht 369 million which have been included in administrative expenses in the statement of comprehensive income.

If the acquisition had occurred on 1 January 2022, management estimates that consolidated revenue would have increased by Baht 3,564 million and operating profit for the year would have increased by Baht 719 million. However, power purchase arrangements of a subsidiary in Australia result in containing the derivative components and shall be measured at fair value. As at 31 December 2022, there was loss on fair value adjustment of derivatives amounting to Baht 2,781 million. The management currently in the process to assess the value of the derivative assets or liabilities. This process takes time to collect information and consider an appropriate valuation model to apply.

According to the Group acquiring 100% shares of NEHBV, which holds the varies of asset class. In part, resulting to the Group was able to invest in Nexif RATCH Energy Singapore Pte. Ltd. ("NRES"), the existing joint venture, such joint venture increased by 51% and combined with the Company's existing 49%, resulting to the Group hold 100% of shares of NRES. As a result, NRES had changed to be a subsidiary of the Group. Therefore, the Group had to recognise of the value of the interests in NRES before the acquisition of the ordinary shares at fair value at the purchased date and recognized such differences in the statement of comprehensive income as follows:

	<i>(in thousand Baht)</i>
Fair value of equity interests in NRES of the Company prior to acquisition	1,781,410
Less Carrying value of NRES accounted for equity method in the Company at the acquisition date	(1,130,418)
Add Amount arising from interests recognized in other comprehensive income	10,087
Difference from changes in fair value of investment in a joint venture	661,079

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Acquiring to invest in Nexif Ratch Energy Investments Pte. Ltd. (“NREI”)

In addition, on 20 December 2022, RHIS, an indirect subsidiary of the Company, acquired shares in NXF Holdings 2 Limited (“NXF2”) and restructured by establishing Nexif Ratch Energy Investments Pte. Ltd. (“NREI”) with Nexif Energy Invest Pte. Ltd. (“Nexif Energy”). RHIS hold 49% shares of NREI for investing in renewable energy power plants project in the Socialist Republic of Vietnam and the Public of the Philippines and seeking new projects in Southeast Asia and Australia.

The above acquisition has a total investment value of US Dollars 135.88 million or equivalent to Baht 4,696 million and loans to Nexif Energy amounting to US Dollars 49.90 million or equivalent to Baht 1,725 million.

The management appointed an independent appraiser to determine the fair value of business. As at 31 December 2022, the fair value appraisal has not been completed, details as follows:

	Fair value <i>(in thousand Baht)</i>
Cash and cash equivalents	1,601,048
Trade receivable and other current assets	335,138
Property, plant and equipment	1,941,546
Intangible assets	3,772,937
Other assets	1,483,779
Trade and other payables	(363,543)
Loans and lease liabilities	(937,852)
Deferred tax liabilities	(315,069)
Non-controlling interest	(250,820)
Total identifiable net assets	7,267,164
Interest acquired (%)	49
	3,560,910
Excess of purchase consideration over fair value	1,135,482
Purchase consideration transferred	4,696,392

5 Related parties

A related party is a person or entity that has direct or indirect control, or has significant influence over the financial and managerial decision-making of the Group; a person or entity that is under common control or under the same significant influence as the Group; or a person or entity over which the Group has direct or indirect control or has significant influence over the financial and managerial decision-making.

Relationships with parent, subsidiaries, associates and joint ventures are described in notes 9 and 10. Other related parties which the Group had significant transactions with during the year were as follows:

Name of entities	Country of incorporation/ nationality	Nature of relationships
Electricity Generating Authority of Thailand	Thailand	Major shareholder, some common directors
EGAT International Co., Ltd.	Thailand	99.99% shareholding by Electricity Generating Authority of Thailand, some common directors
RH International (Mauritius) Corporation Limited	Mauritius	Indirect subsidiary, 100% shareholding by a direct subsidiary

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Name of entities	Country of incorporation/ nationality	Nature of relationships
RH International (Singapore) Corporation Pte. Ltd.	Singapore	Indirect subsidiary, 100% shareholding by an indirect subsidiary
Fareast Renewable Development Pte. Ltd.	Singapore	Indirect subsidiary, 90% shareholding by an indirect subsidiary
RATCH-Australia Corporation Pty. Ltd. and its subsidiaries	Australia	Indirect subsidiary, 100% shareholding by an indirect subsidiary, some common directors
Nexif Energy Holding B.V. and its subsidiaries	Netherlands	Indirect subsidiary, 100% shareholding by an indirect subsidiary
RATCH China Power Limited (In process of liquidation)	Hong Kong	Indirect subsidiary, 100% shareholding by an indirect subsidiary
RE Solar 1 Company Limited	Thailand	Indirect subsidiary, 99.99% shareholding by a direct subsidiary
Nexif Ratch Energy Rayong Company Limited	Thailand	Indirect subsidiary, 99.99% shareholding by an indirect subsidiary
Nam Ngum 2 Power Company Limited	Lao PDR	Subsidiary of a direct joint venture, 75% shareholding by a direct joint venture
Ecowin Energy Corporation	Vietnam	Subsidiary of an indirect joint venture, 80% shareholding by an indirect joint venture
EGAT Diamond service Company Limited	Thai	Other related party, 10% shareholding
Key management personnel	Thai	Persons having authority and responsibility for planning, directing, and controlling the activities of the entity, directly or indirectly, including any director (whether executive or otherwise) of the Group.

<i>Significant transactions with related parties Year ended 31 December</i>	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Major shareholder				
Revenue from sales of electricity	63,688,441	31,015,433	-	-
Operation and maintenance service income	72,016	67,182	-	-
Revenue from lease contracts	1,536,339	1,953,582	-	-
Other income	4,726	7,089	4,726	7,089
Purchase of fuel oil	-	459,845	-	-
Purchase of electricity	200,193	207,530	-	-
Operation and maintenance service fee	1,271,186	1,205,295	-	-
Management service of fuel	2,177	2,173	-	-
Other service fees	6,735	2,724	4,051	1,399

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<i>Significant transactions with related parties</i> <i>Year ended 31 December</i>	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Subsidiaries				
Management service income	-	-	230,966	206,633
Interest income	-	-	104,121	63,416
Dividend income	-	-	2,333,901	3,346,272
Interest expense	-	-	46,996	40,843
Associates				
Management service income	2,276	2,276	2,276	2,276
Interest income	2,259	154	2,259	154
Dividend income	-	-	32,600	17,400
Joint ventures				
Operation and maintenance service income	1,729	2,079	-	-
Management service income	273,044	221,926	270,249	220,473
Interest income	43,444	30,777	43,444	30,777
Dividend income	-	-	115,590	163,146
Rental income	54,235	52,639	-	-
Other income	15,416	24,732	-	-
Key management personnel				
Key management personnel compensation				
Short-term employee benefits	177,406	156,747	84,305	68,968
Defined contribution plan	8,797	7,085	2,648	2,004
Defined benefit plan	4,487	4,254	2,402	2,770
Total key management personnel compensation	190,690	168,086	89,355	73,742
Other related parties				
Dividend income	2,318	2,507	2,318	2,507
Other service fee	6,518	10,207	6,518	10,207
Balances with related parties At 31 December				
	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Trade accounts receivable				
Major shareholder	11,515,948	8,933,479	-	-
Associate	1,597	398	-	-
Joint venture	133	180	-	-
	11,517,678	8,934,057	-	-
Less allowance for expected credit loss	-	-	-	-
Net	11,517,678	8,934,057	-	-
Advances to and other current receivables				
Major shareholder	6,592	8,667	5,057	7,585
Subsidiaries	-	-	82,787	84,566
Associates	203	203	203	203
Joint ventures	53,023	22,598	35,345	21,607
Total	59,818	31,468	123,392	113,961

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<i>Balances with related parties</i> <i>At 31 December</i>	Consolidated		Separate			
	financial statements		financial statements			
	2022	2021	2022	2021		
	<i>(in thousand Baht)</i>					
<i>Short-term loans to</i>						
Subsidiaries	-	-	144,269	186,273		
	-	-	144,269	186,273		
<i>Less</i> allowance for expected credit loss	-	-	(627)	(656)		
Net	-	-	143,642	185,617		
<i>Other non-current receivables</i>						
Subsidiaries	-	-	93,760	18,059		
Associates	2,413	154	2,413	154		
Joint ventures	115,695	74,005	115,695	74,005		
Total	118,108	74,159	211,868	92,218		
<i>Long-term loans to</i>						
Subsidiaries	-	-	3,141,604	2,192,448		
Associates	81,921	32,253	81,921	32,253		
Joint ventures	700,863	631,142	700,863	631,142		
	782,784	663,395	3,924,388	2,855,843		
<i>Less</i> allowance for expected credit loss	(12,150)	(7,231)	(69,939)	(51,745)		
Net	770,634	656,164	3,854,449	2,804,098		
<i>Receivable under</i>	Consolidated financial statements					
<i>lease contracts</i>	Portion due		Portion due		Total	
	within one year		after one year			
	2022	2021	2022	2021	2022	2021
	<i>(in thousand Baht)</i>					
Major shareholder						
Receivables under						
lease contracts	2,832,826	4,297,206	7,891,863	10,724,690	10,724,689	15,021,896
<i>Less</i> unearned interest						
income	(1,121,903)	(1,488,791)	(1,847,478)	(2,969,382)	(2,969,381)	(4,458,173)
	1,710,923	2,808,415	6,044,385	7,755,308	7,755,308	10,563,723
<i>Less</i> allowance for						
expected credit loss	-	-	(1,644)	(1,644)	(1,644)	(1,644)
Receivable under						
lease contracts-net	1,710,923	2,808,415	6,042,741	7,753,664	7,753,664	10,562,079

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The gross receivable and interest under lease contracts as at 31 December were as follows:

	Consolidated financial statements			
	Receivable and interest under lease contracts	Receivable under lease contracts - net	Receivable and interest under lease contracts	Receivable under lease contracts - net
	2022		2021	
	<i>(in thousand Baht)</i>			
Portion due within one year	2,832,826	1,710,923	4,297,206	2,808,415
Portion due after one year but within five years	7,891,863	6,044,385	9,670,979	6,766,962
Portion due after five years	-	-	1,053,711	988,346
	10,724,689	7,755,308	15,021,896	10,563,723
Less unearned interest income	(2,969,381)	-	(4,458,173)	-
Less allowance for expected credit loss	(1,644)	(1,644)	(1,644)	(1,644)
Receivable under lease contracts-net	7,753,664	7,753,664	10,562,079	10,562,079

<i>(Reversal of) Expected credit losses</i> <i>Year ended 31 December</i>	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Short-term loans to	-	-	(29)	324
Long-term loans to	4,919	(9,003)	18,194	(347)
Receivable under lease contracts	-	(196)	-	-

<i>Balances with related parties</i> <i>At 31 December</i>	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<i>Short term loan from</i>				
Subsidiary	-	-	5,090,000	5,140,000
<i>Trade payable</i>				
Major shareholder	4,383	-	-	-
Joint ventures	28	-	-	-
<i>Other current payable</i>				
Major shareholder	117,255	78,175	540	-
Subsidiaries	-	-	18,794	12,993
Joint ventures	16,776	16,570	15,258	15,052
Other related parties	-	2,042	-	2,042
Total	134,031	96,787	34,592	30,087
<i>Other non-current payables</i>				
Joint venture	-	4,235	-	4,235

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Significant agreements with related parties

Loans to related parties

As at 31 December 2022, the Company had loans to RATCH Cogeneration Company Limited, a direct subsidiary, of short-term loans outstanding balance amounting to Baht 144.27 million with interest 3-Month floating rate plus a fixed margin and will be due within one year. The long-term loan of existing agreement outstanding balance amounting to Baht 136.13 million and the long-term Intercompany Loan Agreement for the Project expansion amounting to Baht 1,727.27 million with interest at the fixed rate of 4.50% and 3.34% per annum, respectively. The principal and interest will be due as stipulated in the agreement. The Company has no intention to recall the loans from the subsidiary within one year. Therefore, the Company classified the balance of the loan as long-term loan.

As at 31 December 2022, the Company had outstanding balance of loans to RATCH-Lao Services Company Limited, a direct subsidiary, under the existing loan agreement, amounting to US Dollars 32.60 million or equivalent to Baht 1,118.00 million with interest at the fixed rate of 3.65% per annum and under the new loan agreement, amounting to Baht 160.20 million with interest at the fixed rate of 4.50% per annum. The principal and interest will be due as stipulated in the agreement. The Company has no intention to recall the loans from the subsidiary within one year. Therefore, the Company classified the balance of the loans as long-term loans.

As at 31 December 2022, the Company had outstanding balance of loans to Xe-Pian Xe-Namnoy Power Company Limited, a direct joint venture, amounting to US Dollars 1.32 million or equivalent to Baht 45.27 million with interest at the rate of 3-Month London Interbank Offered Rate (LIBOR), plus fixed margin per annum. The loan agreement determined the repayment term of principal and interest within 27 years commencing from the joint venture made the first drawdown of loans from financial institutions on 5 February 2014. The Company had outstanding balance of loans for the purpose of covering additional expenditure of the Xe-Pian Xe-Namnoy Hydroelectric Power Project amounting to US Dollars 16.78 million or equivalent to Baht 575.43 million with interest at the rate of 3-Month London Interbank Offered Rate (LIBOR), plus fixed margin per annum. The principal and interest will be due as stipulated in the agreement.

As at 31 December 2022, the Company had outstanding balance of loans to Smart Infranet Company Limited, a direct joint venture, amounting to Baht 25.50 million with interest at the fixed rate of 5.30% per annum. The principal and interest will be due as stipulated in the agreement. The Company has no intention to recall the loans from the joint venture within one year. Therefore, the Company classified the balance of the loan as long-term loan.

As at 31 December 2022, the Company had outstanding balance of loans to Things on Net Company Limited, a direct joint venture, amounting to Baht 23.80 million with interest at the fixed rate of 5.30% per annum. The principal and interest will be due as stipulated in the agreement. The Company has no intention to recall the loans from the joint venture within one year. Therefore, the Company classified the balance of the loan as long-term loan.

As at 31 December 2022, the Company had outstanding balance of loans to Northern Bangkok Monorail Company Limited, a direct associate, amounting to Baht 81.92 million with interest at the fixed rate of 5.00% per annum. The principal and interest will be due as stipulated in the agreement. The Company has no intention to recall the loans from the associate within one year. Therefore, the Company classified the balance of the loan as long-term loan.

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As at 31 December 2022, the Company had outstanding balance of loans to Sekong Investment Advisory Co., Ltd., a direct joint venture, amounting to US Dollars 0.90 million or equivalent to Baht 30.87 million with interest at the rate of 6-Month London Interbank Offered Rate (LIBOR), plus fixed margin per annum. The principal and interest will be due as stipulated in the agreement.

Short term loans from related parties

As at 31 December 2022, the Company had outstanding balance of loans from Ratchaburi Electricity Generating Company Limited, a direct subsidiary, amounting to Baht 5,090 million which bear interest at the fixed rate of 1.28% - 1.70% per annum and will be due within one year.

Power Purchase Agreements

On 9 October 2000, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into a Power Purchase Agreement with EGAT for a period of 25 years, whereby such subsidiary will deliver net electricity generation from Thermal power plants unit 1 and 2 and Combined Cycle power plants block 1, 2 and 3 to EGAT under the conditions of the Power Purchase Agreement. Such subsidiary will receive revenue from EGAT, which are comprised of energy payment (EP) and availability payment (AP). An energy payment (EP) covers production costs which are comprised of fuel costs and variable costs of operation and maintenance. Such costs will be adjusted in accordance with fuel price, Energy Efficiency Ratio and Consumer Price Index. An availability payment (AP) covers the repayment of principal and interest of loans, return on shareholders' equity, fixed operation and maintenance expenses, maintenance parts expenses and administrative expenses. Such costs will be adjusted to cover the changes of interest rates, Consumer Price Index and exchange rates.

On 3 December 2009, RATCH Cogeneration Company Limited, a direct subsidiary, entered into a Power Purchase Agreement for RATCH Cogeneration Power Project located in Pathum Thani province with EGAT. The agreement is effective from the execution date until the 25-year from the commercial operation date. The project is a combined-cycle power plant project with total contracted capacity of 110 Megawatts which started its commercial operation in 2013.

On 12 July 2019, Hin Kong Power Company Limited, a direct joint venture, entered into a Power Purchase Agreement for Hin Kong Power Project located in Ratchaburi province with EGAT. The agreement is effective from the execution date until the 25-year from the commercial operation date. The project is a combined-cycle power plant project with total contracted capacity of 1,400 Megawatts which is scheduled for commercial operation in 2024 and 2025.

Sahacogen (Chonburi) Public Company Limited, a direct subsidiary, entered into a Power Purchase Agreement with EGAT to sell electricity in a specified quantity and at a stipulated price as defined in the agreement. The agreement period is 25 years and will expire in April 2024.

On 26 November 2021, the subsidiary entered into a Power Purchase Agreement with EGAT for a period of 25 years as from the scheduled commercial operation date ("SCOD"). The SCOD specified in the agreement will be 19 April 2024 and the agreement will end in April 2049. This Power Purchase Agreement obliged the subsidiary to construct new cogeneration power plant which has a maximum capacity of 73 megawatts for electricity and 75 tons per hour for steam.

Operation and Maintenance Agreement

On 7 January 2009, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into an Operation and Maintenance Agreement with EGAT. The agreement is effective from 1 January 2009 until the termination dates of the Power Purchase Agreement for Thermal power plants and Combined Cycle power plants. EGAT will operate and provide routine maintenance services including major overhaul to such subsidiary. The initial value of the agreement is approximately Baht 16,608.16 million, which will be adjusted by the annual Consumer Price Index.

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On 27 May 2020, RATCH-Lao Services Company Limited, a direct subsidiary, entered into a Personnel Providing Service for Operation and Maintenance Agreement with EGAT, whereby such subsidiary will recruit and provide qualified personnel according to the number and qualifications specified in the agreement for operation and maintenance of Nam Ngiep 1 Hydropower Plant located in Lao PDR, for a period of 58 months. The agreement is effective from May 2020 to February 2025. The total value of the agreement is Baht 36.67 million.

On 28 October 2020, RATCH-Lao Services Company Limited, a direct subsidiary, entered into an Operation and Maintenance Services Agreement for Hongsa Mine Mouth Power Project in Lao PDR with EGAT to operate and maintenance for Hongsa Power Project for a period of 36 months from November 2020 onwards. The total value of the agreement is Baht 168.11 million.

Fuel Management Service Agreement

On 1 July 2012, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into a Fuel Management Service Agreement with EGAT, whereby EGAT will coordinate the supply and delivery of fuel oil, according to the demand of such subsidiary and align with EGAT's power dispatching plan. The agreement is effective from 1 July 2012 until 30 June 2013. The service fee is stipulated in the agreement. The agreement is automatically extended for a period of 1 year unless written notice.

Land Lease Agreement and Common Facility Agreement

On 7 June 2004 and 21 October 2005, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into a Land Lease Agreement for an area of 145 rai with Ratchaburi Power Company Limited, an indirect joint venture. The land is located in the Ratchaburi Power Plant area. The rental period is 25 years and 3 months commencing from the commercial operation date of Ratchaburi Power Company Limited.

On 25 November 2005, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into a Common Facility Agreement with Ratchaburi Power Company Limited, an indirect joint venture, whereby such subsidiary will provide certain facilities, services, right to use and access rights to utilities relating to construction and operation to Ratchaburi Power Company Limited as stipulated in the agreement. This agreement is effective from the signing date in the agreement until the termination date of the Land Lease Agreement dated on 7 June 2004.

On 23 August 2019, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into land lease agreement 175 rai with Hin Kong Power Company Limited, a direct joint venture, for a period of 29 years which effective from 1 January 2021 onwards.

On 30 June 2021, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into land lease agreement 8 rai with Hin Kong Power Company Limited, a direct joint venture, for a period of 28 years and 6 months which effective from 1 July 2021 onwards.

Management Service Agreement

On 27 February 2004, the Company entered into a Management Service Agreement with Ratchaburi Power Company Limited, an indirect joint venture, whereby the Company will receive management service fee amounting to US Dollars 2.50 million per annum for a period of 25 years and 3 months commencing from the commercial operation date of the Power Plant Unit 1 of Ratchaburi Power Company Limited. The total value of the agreement is US Dollars 63.12 million.

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On 24 February 2021, the Company entered into a Management Service Agreement with Hin Kong Power Company Limited, a direct joint venture, whereby the Company will receive management service fee amounting to Baht 36 million per year and will increase annually as stipulated in the agreement. The agreement is automatically extended for a period of 1 year unless written notice.

Agreement in relation to investment in Chubu Ratchaburi Electric Services Company Limited

On 29 September 2005, the Company and Chubu Electric Power (Thailand) Company Limited entered into a Shareholders Agreement to set up Chubu Ratchaburi Electric Services Company Limited, a direct joint venture. Under the terms of the shareholders agreement, if Chubu Ratchaburi Electric Services Company Limited requires additional funding exceeding its authorised share capital, the Company agreed to provide financial support in the form of shareholders' loans or other shareholders' guarantees in proportion of investment of 50%. The agreement does not specify the amount of financial support. As at 31 December 2022, the Company has not provided any loans or guarantees under the agreement

Sponsor Support Agreement with Northern Bangkok Monorail Company and Eastern Bangkok Monorail Company Limited

On 11 October 2017, the Company entered into a Sponsor Support Agreement with Northern Bangkok Monorail Company Limited and Eastern Bangkok Monorail Company Limited, direct associates. The Company agreed to provide financial support in the form of shareholders' loans or other shareholders' guarantees in proportion of investment of 10% with credit limit and conditions as specified in the agreement. As at 31 December 2022, the Company has not yet provided any loans or guarantees under the agreement with Eastern Bangkok Monorail Company Limited.

Sponsor Support Agreement with Nexif Ratch Energy Rayong Company Limited

The Company entered into an Sponsor Support Agreement with Nexif Ratch Energy Rayong Company Limited, an indirect subsidiary. The Company agreed to provide financial support in the form of shareholders' loans or other shareholders' guarantees. As at 31 December 2022, the Company has provided the guarantee to such company with credit amount of Baht 96.99 million.

Obligations related to Share Purchase Agreement

The Company has obligations under a Share Purchase Agreement related to the purchase of ordinary shares in the two of associates. Under the terms of the agreement, the other shareholder has additional rights to the Company's dividend entitlements from those associates.

Obligations related to Guarantee Service Agreement with Hin Kong Power Holding Company Limited and Hin Kong Power Company Limited

The Company has obligations under a Guarantee Service Agreement to Hin Kong Power Holding Company Limited and Hin Kong Power Company Limited, direct joint ventures. Under the terms of the agreement defined the Company as guarantor, in proportion of shareholder of 51%. The facilities and terms are stipulated in the agreement.

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6 Cash and cash equivalents

	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Cash on hand	1,839	1,632	449	449
Cash at banks	10,773,556	6,474,862	181,749	542,102
Highly liquid short-term investments	23,565,779	485,000	754,000	150,000
Cash and cash equivalents	34,341,174	6,961,494	936,198	692,551

7 Trade accounts receivable

	Consolidated financial statements		Separate financial statements	
<i>At 31 December</i>	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Within credit terms	12,579,400	9,550,322	-	-
Overdue:				
Less than 3 months	2,955	223,475	-	-
3 - 6 months	-	12	-	-
6 - 12 months	-	88	-	-
Over 12 months	-	300	-	-
Total	12,582,355	9,774,197	-	-
Less allowance for expected credit loss	-	-	-	-
Net	12,582,355	9,774,197	-	-

Information of credit risk is disclosed in note 26 (b.1).

8 Spare parts and supplies

	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Fuel oil	808,005	1,071,193	-	-
Spare parts and supplies	2,110,940	1,776,189	-	-
Spare parts and supplies in transit	32,191	10,715	-	-
Total	2,951,136	2,858,097	-	-
Less allowance for obsolescence of spare parts and supplies	(1,003,177)	(956,252)	-	-
allowance for decline in value of fuel oil	(2,162)	-	-	-
Net	1,945,797	1,901,845	-	-
Spare parts and supplies recognised in ‘cost of sales’:				
- Cost	6,159,700	2,460,237	-	-
- Write-down to obsolescence of spare parts and supplies	46,925	26,539	-	-
- (Reversal of) decline in value of fuel oil to net realisable value	2,162	(65,884)	-	-
Net	6,208,787	2,420,892	-	-

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9 Investments in associates and joint ventures

<i>Material movement</i> <i>Year ended 31 December</i>	<i>Note</i>	Consolidated financial statements		Separate financial statements	
		2022	2021	2022	2021
		<i>(in thousand Baht)</i>			
At 1 January		51,067,028	40,787,800	13,170,815	9,490,861
Share of profits of joint ventures and associates accounted for using equity method		5,391,157	5,902,401	-	-
Share of other comprehensive income of joint ventures and associates accounted for using equity method		1,777,305	1,599,145	-	-
Addition investments		6,205,777	4,657,653	795,031	3,679,954
Acquisition through business combination		-	114,622	-	-
Transfer to investment in subsidiaries	4	(1,130,418)	(2,930,148)	(984,809)	-
Dividend income		(2,784,385)	(2,152,067)	-	-
Exchange rate adjustment		812,767	3,151,338	-	-
Allowance for investment impairment		-	(63,716)	-	-
Others		25,690	-	-	-
At 31 December		<u>61,364,921</u>	<u>51,067,028</u>	<u>12,981,037</u>	<u>13,170,815</u>

RATCH Group Public Company Limited and its subsidiaries
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Investments in associates and joint ventures as at 31 December were as follows:

					Consolidated financial statements			
Type of business		Country of incorporation	Ownership interest		Cost	At equity method		
			2022	2021	2022	2021	2022	2021
			(%)		(in thousand Baht)			
Direct associates								
First Korat Wind Company Limited	Generating and selling electricity	Thailand	20	20	399,204	399,204	435,605	439,597
K.R. TWO Company Limited	Generating and selling electricity	Thailand	20	20	365,400	365,400	406,488	401,570
Northern Bangkok Monorail Company Limited	Mass transit system	Thailand	10	10	1,440,000	1,440,000	1,564,868	1,402,193
Eastern Bangkok Monorail Company Limited	Mass transit system	Thailand	10	10	1,440,000	1,440,000	1,579,180	1,421,480
Bangkok Aviation Fuel Services Public Company Limited	Aviation fuel services	Thailand	15.53	15.53	2,712,138	2,712,138	2,561,635	2,593,596
Principal Healthcare - Sakonnakhon Company Limited	Private hospital business	Thailand	25	-	75,000	-	73,783	-
					6,431,742	6,356,742	6,621,559	6,258,436
Indirect associates								
Solar Power (Korat 3) Company Limited	Generating and selling electricity	Thailand	40	40	75,500	75,500	181,984	188,230
Solar Power (Korat 4) Company Limited	Generating and selling electricity	Thailand	40	40	79,700	79,700	199,011	198,541
Solar Power (Korat 7) Company Limited	Generating and selling electricity	Thailand	40	40	75,500	75,500	184,484	186,889
Impact Solar Company Limited	Generating and providing rooftop solar power systems	Thailand	10.85	10.71	118,230	118,230	116,789	114,330
Perth Power Partnership (Kwinana)	Generating and selling electricity	Australia	30	30	618,531	618,531	-	73,247
Yandin WF Holdings Pty Ltd	Generating and selling electricity	Australia	70	70	3,077,978	3,077,978	3,669,115	3,419,544
					4,045,439	4,045,439	4,351,383	4,180,781
Total					10,477,181	10,402,181	10,972,942	10,439,217

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					Consolidated financial statements			
	Type of business	Country of incorporation	Ownership interest		Cost	At equity method		
			2022	2021	2022	2021	2022	2021
			(%)		(in thousand Baht)			
Direct joint ventures								
Chubu Ratchaburi Electric Services Company Limited	Providing operation and maintenance services	Thailand	50	50	10,000	10,000	90,863	88,656
SouthEast Asia Energy Limited	Investing in the power energy business	Thailand	33.33	33.33	2,202,250	2,202,250	2,936,270	2,742,819
Smart Infranet Company Limited	Investing in Underground Optic Fiber Network Project	Thailand	51	51	280,500	280,500	206,282	238,558
Things on Net Company Limited	Investing in installation and development of telecommunication networks	Thailand	35	35	180,018	180,018	118,841	142,980
Hin Kong Power Holding Company Limited	Importing and selling LNG	Thailand	51	51	467,772	467,772	407,607	445,274
Hin Kong Power Company Limited	Generating and selling electricity	Thailand	51	-	463,590	-	544,940	-
R E N Korat Energy Company Limited	Generating and selling electricity and steam	Thailand	40	40	240,000	120,000	217,860	111,913
Innopower Company Limited	Investing in innovation and commercial inventions including future energy business	Thailand	30	30	180,000	45,000	170,762	45,000
Xe-Pian Xe-Namnoy Power Company Limited	Generating and selling electricity	Lao PDR	25	25	2,523,725	2,523,725	3,169,815	2,635,647
Sekong Investment Advisory Co., Ltd.	Supporting the investment of power plant project	Lao PDR	60	-	1,440	-	-	-
NEXIF RATCH ENERGY SINGAPORE PTE. LTD.	Investing in the power energy business	Singapore	-	49	-	984,809	-	1,043,682
					<u>6,549,295</u>	<u>6,814,074</u>	<u>7,863,240</u>	<u>7,494,529</u>
Indirect joint ventures								
Ratchaburi Power Company Limited	Generating and selling electricity	Thailand	25	25	1,831,250	1,831,250	2,678,171	2,767,617
Nava Nakorn Electricity Generating Company Limited	Generating and selling electricity and steam	Thailand	40	40	820,000	800,000	817,768	1,050,835
Ratchaburi World Cogeneration Company Limited	Generating and selling electricity and steam	Thailand	40	40	1,000,000	1,000,000	1,466,117	1,350,685
Berkprai Cogeneration Company Limited	Generating and selling electricity and steam	Thailand	35	35	465,850	465,850	679,907	626,757

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					Consolidated financial statements			
	Type of business	Country of incorporation	Ownership interest 2022	Ownership interest 2021	2022	Cost 2021	At equity method 2022	At equity method 2021
					(in thousand Baht)			
Indirect joint ventures								
Solarta Company Limited	Generating and selling electricity	Thailand	49	49	545,960	545,960	1,520,679	1,619,624
Songkhla Biomass Company Limited	Generating and selling electricity	Thailand	40	40	98,400	98,400	185,575	178,700
Songkhla Biofuel Company Limited	Providing material of biofuel	Thailand	40	40	400	400	321	324
Hongsa Power Company Limited	Generating and selling electricity	Lao PDR	40	40	12,929,886	12,929,886	23,750,686	20,098,797
Phu Fai Mining Company Limited	Coal mining and trading	Lao PDR	37.50	37.50	630	630	55,571	275,512
Asia Water Co., Ltd.	Generating and selling water	Lao PDR	40	40	179,113	179,113	185,257	184,953
SIPHANDONE-RATCH LAO CO., LTD.	Generating and selling wood pellet	Lao PDR	25	25	57,906	25,405	29,327	22,008
PT Medco Ratch Power Riau	Generating and selling electricity	Republic of Indonesia	49	49	1,083,116	1,083,116	2,379,662	1,711,806
PT TAPANULI HYDRO ENERGY	Generating and selling electricity	Republic of Indonesia	50	-	577,294	-	577,294	-
RATCH & AIDC Wind Energy Pte. Ltd.	Investing in the power energy business internationally	Singapore	63.80	63.80	295,427	210,867	292,895	214,385
NEXIF ENERGY BT PTE. LTD.	Investing in the power energy business internationally	Singapore	74.50	50	227,538	227,538	246,792	227,530
Nexif Ratch Energy Investments Pte. Ltd.	Investing in the power energy business internationally	Singapore	49	-	4,696,392	-	4,696,392	-
An Binh Energy and Infrastructure Fund	Investing in the power energy business and infrastructure	Vietnam	49	49	2,504,686	2,504,686	2,966,325	2,803,749
					27,313,848	21,903,101	42,528,739	33,133,282
Total					33,863,143	28,717,175	50,391,979	40,627,811

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		Separate financial statements								
Type of business		Country of incorporation	Ownership interest		Cost		Impairment		At cost-net	
			2022	2021	2022	2021	2022	2021	2022	2021
			(%)				(in thousand Baht)			
Direct associates										
First Korat Wind Company Limited	Generating and selling electricity	Thailand	20	20	399,204	399,204	-	-	399,204	399,204
K.R. TWO Company Limited	Generating and selling electricity	Thailand	20	20	365,400	365,400	-	-	365,400	365,400
Northern Bangkok Monorail Company Limited	Mass transit system	Thailand	10	10	1,440,000	1,440,000	-	-	1,440,000	1,440,000
Eastern Bangkok Monorail Company Limited	Mass transit system	Thailand	10	10	1,440,000	1,440,000	-	-	1,440,000	1,440,000
Bangkok Aviation Fuel Services Public Company Limited	Aviation fuel services	Thailand	15.53	15.53	2,712,138	2,712,138	-	-	2,712,138	2,712,138
Principal Healthcare - Sakonnakhon Company Limited	Private hospital business	Thailand	25	-	75,000	-	-	-	75,000	-
Total					6,431,742	6,356,742	-	-	6,431,742	6,356,742
Direct joint ventures										
Chubu Ratchaburi Electric Services Company Limited	Providing operation and maintenance services	Thailand	50	50	10,000	10,000	-	-	10,000	10,000
SouthEast Asia Energy Limited	Investing in the power energy business	Thailand	33.33	33.33	2,202,250	2,202,250	-	-	2,202,250	2,202,250
Smart Infranet Company Limited	Investing in Underground Optic Fiber Network Project	Thailand	51	51	280,500	280,500	-	-	280,500	280,500
Things on Net Company Limited	Investing in installation and development of telecommunication networks	Thailand	35	35	180,018	180,018	-	-	180,018	180,018
Hin Kong Power Holding Company Limited	Importing and selling LNG	Thailand	51	51	467,772	467,772	-	-	467,772	467,772
Hin Kong Power Company Limited	Generating and selling electricity	Thailand	51	-	463,590	-	-	-	463,590	-
R E N Korat Energy Company Limited	Generating and selling electricity and steam	Thailand	40	40	240,000	120,000	-	-	240,000	120,000
Innopower Company Limited	Investing in innovation and commercial inventions including energy business future	Thailand	30	30	180,000	45,000	-	-	180,000	45,000

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					Separate financial statements					
Type of business		Country of incorporation	Ownership interest		Cost	Impairment		At cost-net		
			2022	2021	2022	2021	2022	2021	2022	2021
			(%)		(in thousand Baht)					
Direct joint ventures										
Xe-Pian Xe-Namnoy Power Company Limited	Generating and selling electricity	Lao PDR	25	25	2,523,725	2,523,725	-	-	2,523,725	2,523,725
Sekong Investment Advisory Co., Ltd.	Supporting the investment of power plant project	Lao PDR	60	-	1,440	-	-	-	1,440	-
NEXIF RATCH ENERGY SINGAPORE PTE. LTD.	Investing in the power energy business	Singapore	-	49	-	984,809	-	-	-	984,809
Total					6,549,295	6,814,074	-	-	6,549,295	6,814,074

None of the Group and the Company's associates and joint ventures are publicly listed and consequently do not have published price quotations except Bangkok Aviation Fuel Services Public Company Limited which is listed company on the Stock Exchange of Thailand. Based on the closing price of Baht 31.75 per share at 31 December 2022, the fair value of the investment in Bangkok Aviation Fuel Services Public Company Limited was Baht 3,142.71 million.

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Paid-up share capital

During 2022, associate and joint ventures called for paid-up share capital. The Group had paid for the share capital in proportion of investments as follows:

Name of entities	Description	Amount <i>(in million Baht)</i>
<i>Direct associate</i>		
Principal Healthcare - Sakonnakhon Company Limited	Paid for share capital	75.00
<i>Direct joint ventures</i>		
Hin Kong Power Company Limited	Paid for share capital	463.59
R E N Korat Energy Company Limited	Paid for increase in share capital	120.00
Innopower Company Limited	Additional paid-up share capital	135.00
Sekong Investment Advisory Co., Ltd.	Paid for share capital	1.44
<i>Indirect joint ventures</i>		
RATCH & AIDC Wind Energy Pte. Ltd.	Additional paid-up share capital	84.56
SIPHANDONE-RATCH LAO CO., LTD.	Additional paid-up share capital	32.50
Nexif Ratch Energy Investments Pte. Ltd.	Paid for share capital	4,696.39
PT TAPANULI HYDRO ENERGY	Paid for share capital	577.29
Nava Nakorn Electricity Generating Company Limited	Paid for increase in share capital	20.00

Investment in Principal Healthcare - Sakonnakhon Company Limited

On 5 April 2022, the Company has entered into Share Purchase Agreement to purchase ordinary shares of Principal Healthcare - Sakonnakhon Company Limited (“PRINH”) for investing in a private hospital under the name of PRINC Sakonnakhon Hospital which had registered capital totalling Baht 300 million (*comprising 30 million ordinary shares at par value of Baht 10 per share*). The Company paid for the share capital in proportion of investment of 25% totalling Baht 75 million.

Investment in Hin Kong Power Company Limited

On 14 February 2022, the Company has entered into Share Purchase Agreement to purchase ordinary shares of Hin Kong Power Company Limited (“HKP”) from Hin Kong Power Holding Company Limited (“HKH”), an existing shareholder, for jointly operating in Combined Cycle power plant Hin Kong Project in Ratchaburi. The Company already paid for share capital totalling Baht 463.59 million, in investment proportion of 51% (*By fully paid 0.20 million ordinary shares at par value of Baht 10 per share and paid-up of 25%, in the total amount of 184.62 million ordinary shares*) which resulted in HKP becoming a direct joint venture of the Company. After the transaction was completed, the shareholding structure in HKP will be the Company with 51% and Gulf Energy Development Public Company Limited with 49%. Combined Cycle power plant Hin Kong Project in Ratchaburi are 2 power plants with total contracted capacity of 1,400 Megawatts which is scheduled for commercial operation in 2024 and 2025 respectively.

Investment in R E N Korat Energy Company Limited

At the Annual General Meeting of the shareholders of R E N Korat Energy Company Limited (“REN”), a direct joint venture, held on 29 March 2022, the shareholders approved to increase the authorised share capital from Baht 300 million (*comprising 30 million ordinary shares at par value of Baht 10 per share*) to Baht 500 million (*comprising 50 million ordinary shares at par value of Baht 10 per share*) by

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issuance of new ordinary shares totalling 20 million shares at par value of Baht 10 per share and fully paid for increase in share capital. On 5 April 2022, the Company paid for increase in share capital totalling Baht 80 million, in proportion of investment of 40%.

Subsequently on 3 November 2022, at the extraordinary meeting of the shareholders of R E N Korat Energy Company Limited, a direct joint venture, the shareholders approved to increase the authorised share capital from Baht 500 million (*comprising 50 million ordinary shares at par value of Baht 10 per share*) to Baht 700 million (*comprising 70 million ordinary shares at par value of Baht 10 per share*) by issuance of new ordinary shares totalling 20 million shares at par value of Baht 10 per share. The joint venture called for paid-up of 50% of the additional share capital. The Company paid for the additional share capital totalling Baht 40 million, in proportion of investment of 40%.

Investment in Sekong Investment Advisory Co., Ltd.

On 8 July 2022, the Company together with B.Grimm Power Public Company Limited (“B.GRIMM”) and another business partner registered the establishment of Sekong Investment Advisory Co., Ltd. (“SIA”) to support the investment of the Xekong 4A and 4B Hydroelectric Power Projects with installed capacity of 355 Megawatts, located in Xekong Province, Lao PDR with authorised shares capital totalling Kip 1,000 million (*comprising 100,000 ordinary shares at par value of Kip 10,000 per share*). On 31 August 2022, the Company paid for the share capital in proportion of investment of 60% totalling Kip 600 million or equivalent to Baht 1.44 million.

Investment in Sibundong Hydroelectric Power Plant Project

On 23 November 2022, Fareast Renewable Development Pte. Ltd. (“FRD”), a 90% stake owned subsidiary of RH International (Singapore) Corporation Pte. Ltd. (“RHIS”), has invested by purchasing 100% of all ordinary shares in Malacca Eco Investment Holdings Pte. Ltd. (“MEI”), a company incorporated in Singapore, from Eco Energy Holdings Pte. Ltd. (“EEH”), the existing shareholder, to invest and jointly develop Sibundong Hydroelectric Power Plant in the proportion of 55.56%, operating by PT Tapanuli Hydro Energy (“THE”). This share purchase will make the Group become the Project’s shareholder in the proportion of 50%. The value of the acquisition of shares is US Dollars 16.70 million or equivalent to approximately Baht 577.29 million.

Sibundong Hydroelectric Power Plant Project is a run-of-river hydroelectric power plant with the generation capacity of 73.7 megawatts, located on Sibundong river, North Sumatra Province in the Republic of Indonesia. The project has been developed by EEH’s affiliate, the existing partner who jointly operate Asahan-1 Hydroelectric Power Plant. Sibundong is currently in development phase with a plan of Commercial Operation Date in 2029.

Investment in Nava Nakorn Electricity Generating Company Limited

On 28 December 2022, Ratchaburi Electricity Generating Company Limited (“RG”), a direct subsidiary, paid for the additional share capital to Nava Nakorn Electricity Generating Company Limited, a joint venture of the subsidiary, in proportion of investment of 40% totalling Baht 20 million.

Progress of Saddle Dam D collapse

On 23 July 2018, the Saddle Dam D of Xe-Pian Xe-Namnoy Hydroelectric Power Project, located in Lao PDR, of Xe-Pian Xe-Namnoy Power Company Limited, a direct joint venture, collapsed. The Saddle Dam fractured which caused the water flow to the downstream area. The joint venture evacuated the people residing around the affected area for safety. The project also has a standard insurance package in accordance with the loan agreement, including all risk insurance for construction, third-party liability insurance, and delay start-up insurance. The costs incurred as a result of the collapse are primarily the

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responsibility by the contractor in charge of engineering, procurement and construction (EPC). From this situation, the Government of Lao PDR appointed the National Investigation Committee to investigate the situation. In 2019, the National Investigation Committee announced the result of investigation is not force majeure as stipulated in the Concession Agreement. In 2020, the joint venture has received the document of claiming on compensation from the Government of Lao PDR and the compensation is partially paid. Currently, the joint venture is during the process of claiming the compensation and related damages from the EPC contractor. However, the project started its commercial operation on 6 December 2019.

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Material joint ventures

The following table summarises the financial information of the material joint ventures as included in their own financial statements, adjusted for fair value adjustments at acquisition and differences in accounting policies. The table also reconciles the summarised financial information to the carrying amount of the Group's interest in these companies.

	Ratchaburi Power Company Limited		Hongsa Power Company Limited	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Revenue	7,397,211	9,307,099	22,188,470	21,338,710
Profit from continuing operations	882,214 ^a	876,121 ^a	8,692,233 ^a	8,539,175 ^a
Other comprehensive income	-	-	1,176,807	1,931,559
Total comprehensive income (100%)	882,214	876,121	9,869,040	10,470,734
Group's interest (%)	25	25	40	40
Group's share of total comprehensive income	220,554	219,030	3,947,616	4,188,294
Dividend income from joint ventures for the year	310,000	412,500	1,019,700	608,112
Current assets	3,098,786 ^b	3,562,685 ^b	22,763,524 ^b	22,243,968 ^b
Non-current assets	7,677,425	8,002,288	89,317,762	90,002,942
Current liabilities	(1,065,572) ^c	(1,577,132) ^c	(11,047,335) ^c	(10,606,333) ^c
Non-current liabilities	(49,407) ^d	(57,692) ^d	(43,154,680) ^d	(51,049,352) ^d
Net assets (100%)	9,661,232	9,930,149	57,879,271	50,591,225
Group's share of net assets	2,415,308	2,482,537	23,151,708	20,236,490
Exchange differences on translating in the consolidated financial statements and others	262,863	285,080	598,977	(137,693)
Carrying amount of interest in joint ventures	2,678,171	2,767,617	23,750,685	20,098,797
Remark:				
a. Includes:				
- depreciation and amortisation	(894,755)	(894,755)	334,972	330,214
- finance costs	5	-	3,372,699	3,717,591
- tax expense	234,149	214,370	-	-
b. Includes cash and cash equivalents	1,204,918	1,268,464	5,856,210	4,985,035
c. Includes current financial liabilities (excluding trade and other payables and provisions)	-	-	(8,577,014)	(7,965,712)
d. Includes non-current financial liabilities (excluding trade and other payables and provisions)	-	-	(42,146,169)	(50,171,095)

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Immaterial associates and joint ventures

The following is summarised financial information for the Group's interest in immaterial associates and joint ventures based on the amounts reported in the Group's consolidated financial statements:

	Immaterial associates		Immaterial joint ventures	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Carrying amount of interests in immaterial associates and joint ventures	<u>10,972,942</u>	<u>10,439,217</u>	<u>23,963,123</u>	<u>17,761,397</u>
Group's share of:				
- Profit from continuing operations	100,346	99,309	1,593,365	2,168,392
- Other comprehensive income	<u>773,310</u>	<u>564,995</u>	<u>578,633</u>	<u>261,526</u>
- Total comprehensive income	<u>873,656</u>	<u>664,304</u>	<u>2,171,998</u>	<u>2,429,918</u>

10 Investments in subsidiaries

<i>Material movement</i> <i>Year ended 31 December</i>	Separate financial statements	
	2022	2021
	<i>(in thousand Baht)</i>	
At 1 January	55,708,147	50,836,610
Acquisitions / Additions	32,690,378	4,871,537
Reclassify investment	984,809	-
At 31 December	<u>89,383,334</u>	<u>55,708,147</u>

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Investments in subsidiaries as at 31 December are as follows:

Separate financial statements										
	Type of business	Country of operation	Ownership interest		2022	Cost 2021	Impairment		At cost - net	
			2022	2021			2022	2021	2022	2021
			(%)				(in thousand Baht)			
Subsidiaries										
Ratchaburi Electricity Generating Company Limited	Generating and selling electricity and investing in the power energy business	Thailand	99.99	99.99	21,900,000	21,900,000	-	-	21,900,000	21,900,000
Ratchaburi Energy Company Limited	Investing in the power energy business	Thailand	99.99	99.99	640,000	640,000	-	-	640,000	640,000
RH International Corporation Limited	Investing in the power energy business	Thailand	99.99	99.99	59,775,000	27,130,000	-	-	59,775,000	27,130,000
RATCH O&M Company Limited	Providing operation and maintenance services	Thailand	99.99	99.99	2,500	2,500	-	-	2,500	2,500
Ratchaburi Alliances Company Limited	Investing in the power energy business	Thailand	99.99	99.99	420,200	420,200	-	-	420,200	420,200
RATCH Cogeneration Company Limited	Generating and selling electricity and steam	Thailand	99.99	99.97	1,866,602	1,866,052	-	-	1,866,602	1,866,052
Sahacogen (Chonburi) Public Company Limited	Generating and selling electricity and steam	Thailand	51.67	51	3,457,365	3,412,537	-	-	3,457,365	3,412,537
RATCH-Lao Services Company Limited	Providing operation and maintenance services and investing in the power energy and fundamental utility business	Lao PDR	99.99	99.99	336,858	336,858	-	-	336,858	336,858
Nexif Ratch Energy Singapore Pte. Ltd.	Investing in the power energy business	Singapore	49	-	984,809	-	-	-	984,809	-
Total					89,383,334	55,708,147	-	-	89,383,334	55,708,147

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Share acquisition of Sahacogen (Chonburi) Public Company Limited (“SCG”)

On 13 December 2021, the Company completed the purchase of the ordinary shares of Sahacogen (Chonburi) Public Company Limited (“SCG”), which is listed on the Stock Exchange of Thailand, in the total amount of Baht 3,412.54 million, equivalent to 51% of the total issued shares in SCG. According to the acquisition, the Company has determined goodwill from the acquisition in the amount of Baht 1,430.47 million.

TFRS required Management to make preliminary assessment of the fair values of the assets, liabilities and contingent liabilities specified at the acquisition date. The Group hired an independent appraiser to determine the fair value of assets and liabilities acquired during the measurement period, which must not exceed one year from the acquisition date to reflect new information obtained about facts and circumstances that existed as of the acquisition date. Finalisation of the valuation of net assets of investment was completed in August 2022.

The following summarises the consideration transferred, and the fair value of net assets acquired assumed at the acquisition date:

	Recognised value	Adjustments (in thousand Baht)	Fair value
Cash and cash equivalents	1,435,164	-	1,435,164
Trade and other current receivables	573,154	-	573,154
Inventories	262,070	-	262,070
Intangible assets - Power purchase agreements	-	3,680,444	3,680,444
Property, plant and equipment	5,047,561	(141,039)	4,906,522
Deferred tax assets	27,659	57,502	85,161
Other assets	385,355	-	385,355
Trade and other payables	(351,198)	-	(351,198)
Loans and borrowings	(2,987,379)	-	(2,987,379)
Deferred tax liabilities	-	(692,962)	(692,962)
Other liabilities	(428,375)	-	(428,375)
Non-controlling interest	(77,610)	(2,302)	(79,912)
Total identifiable net assets	3,886,401	2,901,643	6,788,044
Interest acquired (%)			51
			3,461,902
Goodwill	1,430,473	(1,430,473)	-
Gain on bargain purchase	-	(49,365)	(49,365)
Purchase consideration transferred			3,412,537

The valuation techniques used for measuring the fair value of material assets acquired are as follows;

- The fair value of power purchase agreements and concession right was determined based on income approach using Multi-period Excess Earning Method (MEEM) with operating period under power purchase agreement and related conditions. Key assumptions included forecast revenue and discount rate.
- The fair value of property, plant and equipment was determined based on market approach.

The consolidated financial statements as at 31 December 2021 included in these financial statements have been restated to reflect new information obtained about facts and circumstances that existed as of the acquisition date and the subsequently recognised adjustments as follows;

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The impacts to the consolidated statement of financial position as at 31 December 2021

(in thousand Baht)

Assets

Intangible assets increase	3,674,266
Property, plant and equipment decrease	(140,814)
Deferred tax assets increase	57,177
Goodwill decrease	(1,430,473)

Liability

Deferred tax liabilities increase	(691,755)
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Total

1,468,401

Equity

Retained earnings increase	46,778
Non-controlling interest increase	1,421,623

Total equity increase

1,468,401

The impacts to the statement of comprehensive income for the year ended 31 December 2021

(in thousand Baht)

Administrative expenses increase	(5,954)
Gain on bargain purchase increase	49,365
Tax expense decrease	882
Comprehensive income for the year increase	44,293

Earnings per share

Earnings per share (basic) (in Bath) increase	0.03
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The impacts to the consolidated statement of cash flow for the year ended 31 December 2021

(in thousand Baht)

Cash flows from operating activities

Profit for the year increase	44,293
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Adjustments

Tax expense decrease	(882)
Amortisation increase	5,954
Gain on bargain purchase increase	(49,365)

Net change cash flow

-

In addition, on 31 January 2022, which is the end of the tender offer, there were those who expressed the intentions to sell in the total amount of 7.80 million shares, equivalent to 0.67% of the total issued and paid-up shares, at Baht 5.75 per share amounting to Baht 44.83 million. After such transaction is completed, the Company hold the total of 601.28 million shares or equivalent to 51.67% of the total issued shares.

The effects of changes in ownership interests in consolidated financial statement as follows:

(in thousand Baht)

Carrying amount of non-controlling interests acquired	45,436
Less consideration paid to non-controlling interests	(44,828)
Increase in equity attributable to owners of the Company from additional investments in subsidiary	608

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Acquired non-controlling interests in RATCH Cogeneration Company Limited (“RCO”)

On 18 July 2022, the Company acquired the additional 0.03% interest in RATCH Cogeneration Company Limited, a direct subsidiary, from the existing shareholder totalling Baht 0.55 million, increasing its ownership from 99.97% to 99.99%.

The effects of changes in ownership interests in consolidated financial statement as follows:

	<i>(in thousand Baht)</i>
Carrying amount of non-controlling interests acquired	730
Less consideration paid to non-controlling interests	(550)
Increase in equity attributable to owners of the Company	
from additional investments in subsidiary	180

The Establishment of company of Sahacogen (Chonburi) Public Company Limited (“SCG”)

On 4 October 2022, Sahacogen (Chonburi) Public Company Limited (“SCG”), a direct subsidiary, registered the establishment of Solarist Holding Company Limited (“SOL”) to invest and operate solar power plant business with authorised shares capital totalling Baht 1 million (*100,000 ordinary shares at par value of Baht 10 per share*). SCG has shareholding proportion of 100%. Subsequently on 19 October 2022, the Board of Directors Meeting of SCG passed a resolution approving to increase the authorised share capital of SOL from the existing registered capital of Baht 1 million to Baht 2,610 million (*261 million ordinary shares at par value of Baht 10 per share*) and called for paid-up of 25% of the additional share capital. Subsequently on 26 October 2022, SCG paid for the additional share capital totalling Baht 652 million for investment to expand power generation business and working capital.

Call for paid up share capital of RH International Corporation Limited (“RHIC”)

Date	Description	Registered share capital (in thousand shares)	Par value per share (Baht)	Registered share capital (in thousand Baht)	Paid-up share capital (in thousand Baht)
1 January 2022	Balance	3,265,000	10	32,650,000	27,130,000
22 July 2022	Increase in share capital	2,712,500	10	27,125,000	-
20 October 2022	Paid for increase in share capital	-	-	-	2,145,000
30 November 2022	Paid for increase in share capital	-	-	-	21,000,000
15 December 2022	Paid for increase in share capital	-	-	-	9,500,000
31 December 2022	Balance	5,977,500	10	59,775,000	59,775,000

Dissolution of RATCH China Power Limited (“RCNP”)

On 20 October 2022, the Board of Directors of RATCH China Power Limited (“RCNP”), an indirect subsidiary, approved for the dissolution of the subsidiary and is under the liquidation process.

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11 Land for future development projects

At 31 December 2022, the Group has land for future development projects comprise the 317 rai located in Pathum Thani province, the 19 rai located in Nakhorn Sri Thammarat province, the 52 rai located in Petchaburi province and the 105 rai located in Ratchaburi province. The Group is considering the future development plan but not yet finalised. The total net book value of those lands are Baht 355.77 million. As at 31 December 2022, the Group has determined the market value resulting the net book value of those lands are not higher than the recoverable amount.

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12 Property, plant and equipment

Consolidated financial statements							
	Land	Buildings, other constructions and building improvements	Power plants, substation & transmission systems and operating & maintenance equipment	Furniture, fixtures and office equipment <i>(in thousand Baht)</i>	Vehicles	Assets under construction and installation	Total
<i>Cost</i>							
At 1 January 2021	1,739,143	527,201	36,590,465	571,686	18,356	7,117,218	46,564,069
Additions	10,294	38,636	696,594	8,295	-	1,691,397	2,445,216
Acquisition through business combination - restate	883,515	167,909	3,804,262	9,251	5,691	37,747	4,908,375
Transfers	(103,300)	72,407	7,300,421	1,550	-	(7,660,144)	(389,066)
Disposals	-	-	(2,420)	(9,264)	(2,655)	-	(14,339)
Effect of movements in exchange rates	10,881	8,746	1,729,258	661	293	317,141	2,066,980
At 31 December 2021 and 1 January 2022 - restate	2,540,533	814,899	50,118,580	582,179	21,685	1,503,359	55,581,235
Additions	2,142	1,847	56,955	4,763	2,717	2,099,519	2,167,943
Acquisition through business combination (<i>see note 4</i>)	28,497	-	17,222,490	5,217	627	213,525	17,470,356
Transfers	-	(73,702)	1,954,412	509	-	(1,967,817)	(86,598)
Disposals	(1,531)	(16,382)	(172,251)	(9,320)	(1,923)	-	(201,407)
Effect of movements in exchange rates	(6,862)	(6,974)	(1,301,821)	350	285	(8,626)	(1,323,648)
At 31 December 2022	2,562,779	719,688	67,878,365	583,698	23,391	1,839,960	73,607,881

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Consolidated financial statements							
	Land	Buildings, other constructions and building improvements	Power plants, substation & transmission systems and operating & maintenance equipment	Furniture, fixtures and office equipment <i>(in thousand Baht)</i>	Vehicles	Assets under construction and installation	Total
<i>Depreciation and impairment losses</i>							
At 1 January 2021	-	230,469	16,286,392	549,618	18,294	-	17,084,773
Depreciation charge for the year	-	26,181	1,670,412	9,933	98	-	1,706,624
Disposals	-	-	(2,159)	(9,263)	(2,655)	-	(14,077)
Effect of movements in exchange rates	-	4,955	834,200	606	275	-	840,036
At 31 December 2021							
and 1 January 2022 - restate	-	261,605	18,788,845	550,894	16,012	-	19,617,356
Depreciation charge for the year	-	41,749	2,351,138	12,837	2,113	-	2,407,837
Transfers	-	1,260	(1,257)	(4)	1	-	-
Disposals	-	(14,379)	(123,115)	(9,284)	(1,620)	-	(148,398)
Effect of movements in exchange rates	-	(3,635)	(603,663)	201	363	-	(606,734)
At 31 December 2022	-	286,600	20,411,948	554,644	16,869	-	21,270,061
<i>Net book value</i>							
At 31 December 2021	2,540,533	553,294	31,329,735	31,285	5,673	1,503,359	35,963,879
At 31 December 2022	2,562,779	433,088	47,466,417	29,054	6,522	1,839,960	52,337,820

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	Separate financial statements				
	Land	Buildings, other constructions and building improvements	Furniture, fixtures and office equipment (in thousand Baht)	Vehicles	Total
Cost					
At 1 January 2021	295,993	309,636	445,978	960	1,052,567
Additions	-	-	3,947	-	3,947
Transfers	-	-	1,550	-	1,550
Disposals	-	-	(9,088)	-	(9,088)
At 31 December 2021 and 1 January 2022	295,993	309,636	442,387	960	1,048,976
Additions	-	-	542	-	542
Disposals	-	-	(4,355)	-	(4,355)
At 31 December 2022	295,993	309,636	438,574	960	1,045,163
Depreciation					
At 1 January 2021	-	99,443	431,945	960	532,348
Depreciation charge for the year	-	12,385	6,161	-	18,546
Disposals	-	-	(9,088)	-	(9,088)
At 31 December 2021 and 1 January 2022	-	111,828	429,018	960	541,806
Depreciation charge for the year	-	12,385	5,101	-	17,486
Disposals	-	-	(4,354)	-	(4,354)
At 31 December 2022	-	124,213	429,765	960	554,938
Net book value					
At 31 December 2021	295,993	197,808	13,369	-	507,170
At 31 December 2022	295,993	185,423	8,809	-	490,225

Capitalised borrowing costs relating to the acquisition of the land and the construction of the new factory for the Group amounted to Baht 44.90 million (2021: Baht 79.38 million).

Security

As at 31 December 2022, RATCH-Australia Corporation Pty. Ltd., an indirect subsidiary, had mortgaged land, buildings and power plants and pledged power plant equipment of 5 power plants with a net book value of Australian Dollars 948.18 million or equivalent to Baht 22,254.06 million as collateral for long-term loans from financial institutions (see note 16).

As at 31 December 2022, RATCH Cogeneration Company Limited, a direct subsidiary, had mortgaged land with partial buildings on land and partial machine as collateral for long-term loans from financial institution (see note 16).

As at 31 December 2022, Sahagreen forest Company Limited, an indirect subsidiary, had mortgaged land with buildings on land and machines with a net book value of Baht 327.41 million as collateral for long-term loans from financial institution (see note 16).

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13 Leases

<i>Right-of-use assets</i> <i>At 31 December</i>	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Land	997,590	466,767	-	-
Machines	1,188,206	82,317	-	-
Vehicles	22,182	27,292	13,916	13,207
Office equipment	8,543	17,049	9,506	16,629
Transmission systems	1,558,865	1,581,020	-	-
Total	3,775,386	2,174,445	23,422	29,836

In 2022, additions to the right-of-use assets of the Group and the Company were Baht 36.28 million and Baht 9.50 million, respectively (2021: Baht 28.37 million and Baht 5.01 million, respectively).

Generator Connection and Access agreement

On 26 October 2016, Mount Emerald Wind Farm Pty. Ltd., an indirect subsidiary, entered into a Generator Connection and Access agreement with a local company in Australia to join construct a switchyard and a transmission line. Thus, the subsidiary can connect and transmit electricity to a substation for a period of 26 years starting from the date specified in the agreement. The total value of the agreement is Australian Dollars 28.18 million.

On 27 October 2020, Collector Wind Farm Pty. Ltd., an indirect subsidiary, entered into a Dedicated Connection Agreement with a local company in Australia. The subsidiary can transmit electricity to substation for a period of 30 years starting from the date specified in the agreement. The total value of the agreement is Australian Dollars 43.49 million.

Land lease agreement

On 29 March 2019, Collector Wind Farm Pty. Ltd., an indirect subsidiary, entered into Land Lease Agreement for a period of 30 years. The agreement can be extended for a period of 10 years after the termination date. The monthly rental expense is stipulated in the agreement.

Extension options

The Group and the Company has extension options on property leases exercisable up to one year before the end of the contract period. The Group and the Company assesses at lease commencement date whether it is reasonably certain to exercise the extension options and will regularly reassess so.

<i>Year ended 31 December</i>	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<i>Amount recognised in profit or loss</i>				
Depreciation of right-of-use assets:				
- Land	26,711	20,861	-	-
- Machines	27,439	1,770	-	-
- Vehicles	22,191	12,935	7,008	8,486
- Office equipment	10,285	8,655	8,901	8,403
- Transmission systems	60,870	60,184	-	-
Interest on lease liabilities	100,591	93,543	1,589	2,242
Expenses relating to short-term leases and leases of low-value assets	12,791	12,491	4,143	3,866

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In 2022, total cash outflow for leases of the Group and the Company were Baht 187.27 million and Baht 17.76 million, respectively (2021: Baht 159.38 million and Baht 18.79 million, respectively).

14 Goodwill and intangible assets

Consolidated financial statements						
	Software licences	Licenses on project development	Goodwill from business acquisition (in thousand Baht)	Right to use transmission system	Right to power purchase agreements	Total
Cost						
At 1 January 2021	149,523	600,742	628,167	-	5,897,788	7,276,220
Acquisition through business combination - restate	6,410	-	-	9,029	3,680,444	3,695,883
Additions	845	-	-	285,767	342	286,954
Effect of movements in exchange rates	3,059	67,656	19,191	-	256,617	346,523
At 31 December 2021 and 1 January 2022 - restate	159,837	668,398	647,358	294,796	9,835,191	11,605,580
Acquisition through business combination (see note 4)	1,384	-	9,765,364	-	3,062,637	12,829,385
Additions	11,844	-	-	15,424	-	27,268
Transfers	-	-	-	-	86,598	86,598
Disposal	-	-	-	-	(381,635)	(381,635)
Effect of movements in exchange rates	(1,934)	22,850	5,786	-	(162,796)	(136,094)
At 31 December 2022	171,131	691,248	10,418,508	310,220	12,439,995	24,031,102
Amortisation and impairment losses						
At 1 January 2021	119,506	124,616	458,512	-	3,120,057	3,822,691
Amortisation charge for the year	8,538	25,581	-	162,904	306,747	503,770
Impairment losses	-	-	19,602	-	-	19,602
Effect of movements in exchange rates	2,822	15,188	-	-	166,854	184,864
At 31 December 2021 and 1 January 2022 - restate	130,866	165,385	478,114	162,904	3,593,658	4,530,927
Amortisation charge for the year	8,820	28,048	-	15,106	429,343	481,317
Disposal	-	-	-	-	(381,635)	(381,635)
Effect of movements in exchange rates	(1,890)	5,255	-	-	(118,175)	(114,810)
At 31 December 2022	137,796	198,688	478,114	178,010	3,523,191	4,515,799
Net book value						
At 31 December 2021	28,971	503,013	169,244	131,892	6,241,533	7,074,653
At 31 December 2022	33,335	492,560	9,940,394	132,210	8,916,804	19,515,303

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	Separate financial statements
	Software licences (in thousand Baht)
<i>Cost</i>	
At 1 January 2021	32,529
Additions	-
At 31 December 2021 and 1 January 2022	32,529
Additions	-
At 31 December 2022	32,529
<i>Amortisation</i>	
At 1 January 2021	30,772
Amortisation charge for the year	1,299
At 31 December 2021 and at 1 January 2022	32,071
Amortisation charge for the year	300
At 31 December 2022	32,371
<i>Net book value</i>	
At 31 December 2021	458
At 31 December 2022	158

Impairment testing for CGUs containing goodwill

For the purposes of impairment testing, goodwill has been allocated to the Group's CGUs. The balance of goodwill as at 31 December 2022 and 2021 mainly came from Wind Farm in Australia.

The recoverable amounts of goodwill, right to power purchase agreements and property, plant and equipment in Australia (CGU) were based on its value in use, determined by discounting the future cash flows to be generated from the continuing use of the power plants in Australia.

The key assumptions used in the estimation of value in use included the discount rates which was a post-tax measure based on the rate of 10-year historic of average 10-year government bonds from Reserve Bank Australia (RBA) defined as a risk free rate, in line with the principle underlying the Capital Asset Pricing Model (CAPM) theory with debt leveraging of 60% for Thermal power plants and 50% for Renewable Energy power plants and the future cash flows were prepared using the external information, which included sales volumes, prices, operating costs, inflation rate and long-term growth rates based on estimate throughout the remaining period of the power purchase agreements.

The values assigned to the key assumptions represent management's assessment of future trends in the relevant industries and have been based on historical data from both external and internal sources.

	Consolidated financial statements
	2022 2021
	(%)
Discount rate - Thermal power plants	6.70 6.19
Discount rate - Renewable energy power plants	6.29 5.72

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The discount rates were a post-tax measure based on the rate of 10-year government bonds issued by the government in the relevant market and in the same currency as the cash flows, adjusted for a risk premium to reflect both the increased risk of investing in general equity securities and the systematic risk of the specific CGU.

Revenue projection

The total revenue projections for the power plant assets have been determined in accordance with the power purchase agreements applying the revenue projections from external information for the post power purchase agreement periods. The assumptions included tariff from Thermal power plants and Renewable Energy power plants, carbon credit prices, nature gas prices, electricity demands, exchange rates, inflation rates and other related factors.

The impairment testing has been prepared by the management of RATCH-Australia Corporation Limited (“RAC”) from the information as specified in the power purchase agreements with the counterparties while estimating revenue and expenses from the external source and other related factors and conservative approach are used when preparing the testing. The RAC’s management have also conducted many sensitivity tests from the most conservative approach. There were no impairment loss recognised for any RAC’s assets (2021: Baht 19.60 million due to foreign currency fluctuation).

15 Other non-current assets

	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
Deferred expenses under contractual service agreements	1,503,963	1,247,235	-	-
Revenue department receivable	335,729	459,072	-	-
Deferred financing fees	-	258,450	-	-
Development costs of power generating projects	195,193	128,078	-	-
Deposits and guarantee	12,909	59,574	4,530	4,526
Prepaid expense - generator connection and access service fee	41,586	44,218	-	-
Others	42,265	42,233	-	-
Total	<u>2,131,645</u>	<u>2,238,860</u>	<u>4,530</u>	<u>4,526</u>

Renewable energy projects

The Group is developing projects to generate and sell electricity from renewable energy in Australia.

The Group has capitalised project development costs related to renewable energy projects in Australia as other non-current assets. Such projects have received the development approval from local authorities and the management has determined that these projects are technically and commercially feasible, future economic benefits are probable and total present value of the estimated future cash flows will not be lower than the carrying amount.

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16 Interest-bearing liabilities

	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<i>Current</i>				
Short-term loans from financial institutions				
-unsecured	8,542,976	5,364,896	-	2,536,000
-secured	141,911	-	-	-
Short-term loan from related party	-	-	5,090,000	5,140,000
Current portion of long-term loans from financial institutions				
-unsecured	265,600	373,000	-	-
-secured	6,314,360	2,297,533	-	-
Current portion of lease liabilities	171,563	161,512	14,029	15,420
Current portion of debenture-unsecured	999,575	1,999,948	999,575	-
Total current interest-bearing liabilities	16,435,985	10,196,889	6,103,604	7,691,420
<i>Non-current</i>				
Long-term loans from financial institutions				
-unsecured	26,234,553	5,957,950	21,484,188	5,000,000
-secured	28,845,611	20,787,239	-	-
Long-term loan-unsecured	346,959	320,000	-	-
Lease liabilities	3,192,981	1,505,423	10,636	15,922
Debentures-unsecured	23,919,048	22,351,744	6,991,871	7,989,734
Total non-current interest-bearing liabilities	82,539,152	50,922,356	28,486,695	13,005,656

Balances of interest-bearing liabilities net of deferred financing fees, excluding lease liabilities as at 31 December 2022 were as follows:

	Consolidated financial statements			
	Total facilities	Amount	Interest rate	Repayment term
		<i>(in million Baht)</i>	<i>(% per annum)</i>	
<i>Short-term</i>				
Loans from financial institutions				
Sahacogen (Chonburi) Public Company Limited	Baht 2,050 million	150	Fixed rate	At call
Sahacogen Green Company Limited	Baht 165 million	25	Fixed rate	At call
Sahagreen Forest Company Limited	Baht 120 million	73	Fixed rate	At call
RH International (Singapore) Corporation Limited	US Dollars 250 million	8,295	Fixed rate	Within a year January 2023
Nexif Ratch Energy Rayong Co., Ltd. <i>(subsidiary of RH International (Singapore) Corporation Limited)</i>	As stipulated in the agreement	142	MLR, minus a fixed margin	Within a year April 2023

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		Consolidated financial statements		
	Total facilities	Amount (in million Baht)	Interest rate (% per annum)	Repayment term
Long-term				
Loans from financial institutions				
RATCH Group Public Company Limited	Baht 21,500 million	21,500	Fixed rate and THOR plus a fixed margin	Within March and June 2024
RATCH Cogeneration Company Limited	Baht 4,632 million	3,011	3-Month floating rate plus a fixed margin	Within 12 years during November 2020 to November 2032
Sahacogen (Chonburi) Public Company Limited	Baht 2,205 million	585	Fixed rate and floating rate plus a fixed margin	Within 7 years during June 2017 to December 2024
Sahagreen Forest Company Limited	Baht 324 million	98	MLR, minus a fixed margin	Within 8 years during June 2017 to December 2025
RATCH-Australia Corporation Pty. Ltd.	Australian Dollars 312 million	4,466	BBSY, plus a fixed margin	Within 5 years during October 2018 to May 2023
RATCH-Australia Renewables (Holdings) Pty. Ltd. (subsidiary of RATCH-Australia Corporation Pty. Ltd.)	Australian Dollars 477 million	10,988	BBSY, plus a fixed margin	Within 5 years and 7 years during September 2022 to September 2027 and September 2029
RH International (Singapore) Corporation Limited	US Dollars 150 million	4,493	Fixed rate	Within 7 years April 2029
LGWF (Finco) Pty. Ltd. (subsidiary of Nexif Energy Holding B.V.)	Australian Dollars 359 million	7,684	BBSY, plus a fixed margin	Within 5 years during December 2023 and April 2027
Lao Cai Renewable Energy Joint Stock Company (subsidiary of Nexif Energy Holding B.V.)	US Dollars 23 million	334	Floating rate	Within 10 years December 2026
Nexif Ratch Energy Rayong Co., Ltd. (subsidiary of RH International (Singapore) Corporation Limited)	Baht 3,307 million	3,278	3-Month BIBOR and 6-Month THBFIX	By quarterly within 20 years March 2040
PT Bajradaya Sentranusa (subsidiary of Fareast Renewable Development Pte. Ltd.)	US Dollars 188 million	6,159	LIBOR, plus a fixed margin	By quarterly within 15 years during March 2022 to December 2036
Total		62,596		
Less deferred financing fees		(936)		
Net		61,660		

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Consolidated financial statements				
	Total facilities	Amount (in million Baht)	Interest rate (% per annum)	Repayment term
<i>Less</i> current portion due within one year		(6,580)		
Total non-current - net		55,080		
Long-term				
Loans from other parties				
Sahacogen (Chonburi) Public Company Limited	As stipulated in the agreement	320	Fixed rate	Within 2026 and 2027
Fareast Renewable Development Pte. Ltd. (subsidiary of RH International (Singapore) Corporation Limited)	US Dollars 0.78 million	27	SOFR plus a fixed margin	Within 5 years November 2027
Debentures				
RATCH Group Public Company Limited	Baht 8,000 million	8,000	1.32 - 2.94	Repayment period of 3, 5, 10 and 15 years and will be due for redemption in 2023, 2025, 2030, 2035, respectively
RH International (Singapore) Corporation Pte. Ltd.	US Dollars 300 million	10,369	4.50	Repayment period of 10 years and will be due for redemption in 2028
RH International (Singapore) Corporation Pte. Ltd.	Japanese Yen 15,000 million	3,930	2.72	Repayment period of 15 years and will be due for redemption in 2026
Sahacogen (Chonburi) Public Company Limited	Baht 2,650 million	2,650	3.00 - 4.26	Repayment period of 3, 7 and 10 years and will be due for redemption in 2025, 2029, 2032, respectively
Total		24,949		
<i>Less</i> deferred financing fees		(30)		
Net		24,919		
<i>Less</i> current portion due within one year		(1,000)		
Total non-current - net		23,919		

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		Separate financial statements		
	Total facilities	Amount (in million Baht)	Interest rate (% per annum)	Repayment term
Short-term				
Loan from related party				
RATCH Group Public Company Limited	Baht 10,000 million	5,090	Fixed rate	Within 6 months during March 2023 to June 2023
Long-term				
Loan from financial institution				
RATCH Group Public Company Limited	Baht 21,500 million	21,500	Fixed rate and THOR plus a fixed margin	Within March and June 2024
Less deferred financing fees		(16)		
Net		<u>21,484</u>		
Debentures				
RATCH Group Public Company Limited	Baht 8,000 million	8,000	1.32 - 2.94	Repayment period of 3,5,10 and 15 years and will be due for redemption in 2023, 2025, 2030, 2035, respectively
Less deferred financing fees		(8)		
Net		<u>7,992</u>		
Less current portion due within one year		(1,000)		
Total non-current - net		<u>6,992</u>		

As at 31 December 2022, the Group had unutilised credit facilities totalling Baht 32,212 million, US Dollars 180 million and Australian Dollars 114.43 million. (2021: Baht 50,226 million, US Dollars 855 million and Australian Dollars 100 million).

The Group must comply with certain conditions in those agreements including maintaining certain key financial ratios for all long-term loans agreement from financial institutions and long-term debenture of RH International (Singapore) Corporation Pte. Ltd.

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Changes in liabilities arising from financing activities

	Consolidated financial statements			
	Loans	Debentures	Lease liabilities	Total
	<i>(in thousand Baht)</i>			
2022				
At 1 January	35,100,618	24,351,692	1,666,935	61,119,245
Changes from financing cash flows	24,998,700	650,000	(187,272)	25,461,428
Changes arising from obtaining control of subsidiaries (see note 4)	11,377,931	-	1,710,978	13,088,909
The effect of changes in foreign exchange rates	(355,548)	485,531	(140,860)	(10,877)
Increase in lease liabilities	-	-	310,673	310,673
Other changes	(429,730)	(568,600)	4,089	(994,241)
At 31 December	70,691,971	24,918,623	3,364,543	98,975,137
2021				
At 1 January	18,314,367	23,338,357	1,480,648	43,133,372
Changes from financing cash flows	7,739,646	-	(159,382)	7,580,264
Changes arising from obtaining control of subsidiaries	8,062,230	-	144,336	8,206,566
The effect of changes in foreign exchange rates	1,229,583	1,475,609	78,113	2,783,305
Increase in lease liabilities	-	-	119,180	119,180
Other changes	(245,208)	(462,274)	4,040	(703,442)
At 31 December	35,100,618	24,351,692	1,666,935	61,119,245
	Separate financial statements			
	Loans	Debentures	Lease liabilities	Total
	<i>(in thousand Baht)</i>			
2022				
At 1 January	12,676,000	7,989,734	31,342	20,697,076
Changes from financing cash flows	13,914,000	-	(17,762)	13,896,238
Increase in lease liabilities	-	-	9,496	9,496
Other changes	(15,812)	1,712	1,589	(12,511)
At 31 December	26,574,188	7,991,446	24,665	34,590,299
2021				
At 1 January	3,465,000	7,987,986	42,884	11,495,870
Changes from financing cash flows	9,211,000	-	(18,792)	9,192,208
Increase in lease liabilities	-	-	5,008	5,008
Other changes	-	1,748	2,242	3,990
At 31 December	12,676,000	7,989,734	31,342	20,697,076

17 Non-current provisions for employee benefits

Defined benefit plan

The Group and the Company operate a defined benefit plan based on the requirement of Thai Labor Protection Act B.E 2541 (1998) to provide retirement benefits to employees based on pensionable remuneration and length of service. The defined benefit plans expose the Group to actuarial risks, such as longevity risk, currency risk, interest rate risk and market (investment) risk.

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<i>Present value of the defined benefit obligations</i>	<i>Note</i>	Consolidated financial statements		Separate financial statements	
		2022	2021	2022	2021
		<i>(in thousand Baht)</i>			
At 1 January		266,686	225,498	179,303	178,408
Recognised in profit or loss:					
Current service cost and interest on obligation		19,788	23,371	19,558	17,432
Acquisition through business combination	4	16,101	46,484	-	-
Transfer		-	-	-	1,433
		35,889	69,855	19,558	18,865
Recognised in other comprehensive income:					
Actuarial (gain) loss					
- Demographic assumption		1,428	14,552	-	11,791
- Financial assumption		(10,554)	(34,403)	-	(27,998)
- Experience assumption		5,904	13,729	-	12,889
Effect of movements in exchange rates		(310)	581	-	-
		(3,532)	(5,541)	-	(3,318)
Benefit paid		(6,015)	(23,126)	(5,323)	(14,652)
At 31 December		293,028	266,686	193,538	179,303

<i>Principal actuarial assumptions</i>	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
		(%)		
Discount rate	1.73 to 5.22	0.51 to 8	3.24	2.46
Future salary growth	4 to 8	4 to 8	6 to 8	6 to 8
Employee turnover	0 to 10	0 to 10	0 to 7	0 to 7

Assumptions regarding future mortality have been based on published statistics and mortality tables.

As at 31 December 2022, the weighted-average durations of the defined benefit obligation were 14.50 and 28.70 years (2021: 14.50 and 28.70 years).

Sensitivity analysis

Reasonably possible changes at the reporting date to one of the relevant actuarial assumptions, holding other assumptions constant, would have affected the defined benefit obligation by the amounts shown below.

<i>Effect to the defined benefit obligation</i>	Consolidated financial statements		Separate financial statements	
	Increase	Decrease	Increase	Decrease
		<i>(in thousand Baht)</i>		
At 31 December 2022				
Discount rate (1% movement)	(27,475)	32,136	(18,939)	21,959
Future salary growth (1% movement)	32,976	(28,670)	22,881	(20,051)
Employee turnover (20% movement)	(6,140)	6,519	(4,535)	4,767
Improving mortality rate (1% movement)	1,008	(1,151)	809	(914)

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<i>Effect to the defined benefit obligation</i>	Consolidated financial statements		Separate financial statements	
	Increase	Decrease	Increase	Decrease
	<i>(in thousand Baht)</i>			
At 31 December 2021				
Discount rate (1% movement)	(22,913)	26,838	(18,459)	21,446
Future salary growth (1% movement)	25,624	(22,333)	20,410	(17,936)
Employee turnover (20% movement)	(5,414)	5,754	(3,968)	4,161
Improving mortality rate (1% movement)	939	(1,069)	725	(817)

18 Share capital

	Par value per share <i>(in Baht)</i>	2022		2021	
		Number	Baht	Number	Baht
		<i>(thousand shares /in thousand Baht)</i>			
Authorised shares					
At 1 January					
- ordinary shares	10	1,450,000	14,500,000	1,450,000	14,500,000
Issue of new shares	10	769,231	7,692,308	-	-
At 31 December					
- ordinary shares	10	2,219,231	22,192,308	1,450,000	14,500,000
Issued and paid-up shares					
At 1 January					
- ordinary shares	10	1,450,000	14,500,000	1,450,000	14,500,000
Increase of new shares	10	725,000	7,250,000	-	-
At 31 December					
- ordinary shares	10	2,175,000	21,750,000	1,450,000	14,500,000

At the Annual General Meeting of the shareholders of the Company held on 27 April 2022, the shareholders approved the increase of the registered capital of the Company from Baht 14,500.00 million to Baht 22,192.31 million by issuing new ordinary shares in the amount of 769.23 million shares at par value of Baht 10 each, totalling Baht 7,692.31 million for issuing and offering the shares in proportion to the shareholding of existing shareholders, exclude shareholders whose holding would subject the Company to obligations under the law of other jurisdictions. On 12 May 2022, the Company considered and determined the final offering price at Baht 34.48 per share, number of the final offered shares of 725.00 million shares, and the final offering ratio per share at 2 existing ordinary shares to 1 new ordinary share. The Company registered the change in the paid-up capital increase from this issuance and offering of new ordinary shares with the Ministry of Commerce on 22 June 2022.

19 Share premium and legal reserves

Share premium

Section 51 of the Public Limited Companies Act B.E. 2535 (1992) requires companies to set aside share subscription monies received in excess of the par value of the shares issued to a reserve account ("share premium"). Share premium is not available for dividend distribution.

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Legal reserve

Section 116 of the Public Limited Companies Act B.E. 2535 (1992) requires that a public company shall allocate not less than 5% of its annual net profit, less any accumulated losses brought forward, to a reserve account (“legal reserve”), until this account reaches an amount not less than 10% of the registered authorised capital. The legal reserve is not available for dividend distribution.

20 Segment information and disaggregation of revenue

Management determined that the Group has 4 reportable segments which are the Group’s strategic divisions for different products and services, and are managed separately. The following summary describes the operations in each of the Group’s reportable segments.

Segment 1	Domestic Electricity Generating
Segment 2	Renewable Energy
Segment 3	International Power Projects
Segment 4	Related business and Infrastructure

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Information about reportable segments

Consolidated financial statements										
	Domestic Electricity Generating		Renewable Energy		International Power Projects		Related business and Infrastructure		Total	
For the year ended 31 December	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
	(in thousand Baht)									
Revenue from sales and rendering of services	66,685,225	31,451,164	-	-	5,196,804	3,780,316	-	-	71,882,029	35,231,480
Revenue from lease contracts	1,536,339	1,953,582	-	-	1,306,852	141,715	-	-	2,843,191	2,095,297
Cost of sales and rendering of services	(66,775,782)	(30,908,059)	-	-	(2,510,814)	(2,208,439)	-	-	(69,286,596)	(33,116,498)
Gross profit	1,445,782	2,496,687	-	-	3,992,842	1,713,592	-	-	5,438,624	4,210,279
Management service income	-	-	-	-	2,795	1,453	272,650	222,852	275,445	224,305
Interest income	39,487	46,114	111	52	328,667	114,060	131,348	45,128	499,613	205,354
Dividend income	190	-	-	-	24,005	56,323	2,319	2,507	26,514	58,830
Net gain on bargain purchase arising from the acquisition - restate	-	49,365	-	-	-	177,667	-	-	-	227,032
Other income	121,947	264,302	74	68	67,159	119,753	19,875	13,830	209,055	397,953
Gain on change in proportion of investment in joint venture	-	-	-	-	-	-	661,080	-	661,080	-
Administrative expenses - restate	(457,221)	(232,424)	(222)	(75)	(1,256,375)	(605,620)	(1,064,883)	(869,676)	(2,778,701)	(1,707,795)
Net foreign exchange gain (loss)	8,166	6,584	-	-	(84,592)	105,470	46,294	94,236	(30,132)	206,290
Gain (loss) on fair value adjustment of derivatives	(773)	22,239	-	-	(101,685)	121,267	-	-	(102,458)	143,506
Finance costs	(198,334)	(169,747)	-	-	(2,477,555)	(1,470,767)	(300,779)	(227,555)	(2,976,668)	(1,868,069)
Share of profit (loss) of joint ventures and associates accounted for using equity method	489,149	640,139	222,353	337,259	4,722,415	5,004,872	(42,760)	(79,869)	5,391,157	5,902,401
Profit (loss) before income tax expense	1,448,393	3,123,259	222,316	337,304	5,217,676	5,338,070	(274,856)	(798,547)	6,613,529	8,000,086
Tax (expense) income - restate	(163,760)	(93,882)	-	-	(777,824)	(82,246)	4,240	(1,045)	(937,344)	(177,173)
Profit (loss) for the year	1,284,633	3,029,377	222,316	337,304	4,439,852	5,255,824	(270,616)	(799,592)	5,676,185	7,822,913

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<i>For the year ended 31 December</i>	Consolidated financial statements									
	Domestic Electricity Generating		Renewable Energy		International Power Projects		Related business and Infrastructure		Total	
	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
	<i>(in thousand Baht)</i>									
Disaggregation of revenue										
Primary geographical markets										
Thailand	66,685,225	31,451,164	-	-	-	-	-	-	66,685,225	31,451,164
Australia	-	-	-	-	5,092,560	3,711,055	-	-	5,092,560	3,711,055
Other countries	-	-	-	-	104,244	69,261	-	-	104,244	69,261
Total	66,685,225	31,451,164	-	-	5,196,804	3,780,316	-	-	71,882,029	35,231,480
Major products and service lines										
Products	66,671,217	31,447,918	-	-	5,092,560	3,711,055	-	-	71,763,777	35,158,973
Services	14,008	3,246	-	-	104,244	69,261	-	-	118,252	72,507
Total	66,685,225	31,451,164	-	-	5,196,804	3,780,316	-	-	71,882,029	35,231,480
Timing of revenue recognition										
At a point in time	66,671,217	31,447,918	-	-	5,092,560	3,711,055	-	-	71,763,777	35,158,973
Over time	14,008	3,246	-	-	104,244	69,261	-	-	118,252	72,507
Total	66,685,225	31,451,164	-	-	5,196,804	3,780,316	-	-	71,882,029	35,231,480

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(a) *Geographical segments*

Segment assets are based on the geographical location of the assets.

Geographical information

	Assets	
	2022	2021 (Restate)
	<i>(in thousand Baht)</i>	
Thailand	81,570,176	70,621,692
Australia	50,882,751	34,072,151
Singapore	36,443,443	10,318,143
Republic of Indonesia	20,586,871	19,142,599
Other countries	40,095,040	22,860,877
Total	<u>229,578,281</u>	<u>157,015,462</u>

(b) *Major customer*

Revenues from one customer of the Group's segment 1 represent approximately Baht 63,688 million (2021: Baht 31,015 million) of the Group's total revenue.

21 Expenses by nature

	Consolidated financial statements		Separate financial statements	
	2022	2021 (Restated)	2022	2021
	<i>(in thousand Baht)</i>			
Fuel costs	61,413,367	26,892,610	-	-
Depreciation and amortisation	3,088,934	2,110,433	33,696	36,734
Operation and maintenance service fees	2,040,369	1,675,259	-	-
Repair expenses and spare parts used	1,307,800	1,354,976	-	-
Employee benefit expenses	941,275	707,117	557,590	453,565
General administrative expenses	848,572	407,769	232,644	167,964
Insurance premium for power plants	592,228	440,098	-	-
Consultant fees	713,372	297,706	236,335	197,218
Impairment losses of assets	-	82,181	-	-
Public relation expenses	52,771	44,855	17,827	23,138
Others	1,066,609	811,289	-	-
Total cost of sales and rendering of services and administrative expenses	<u>72,065,297</u>	<u>34,824,293</u>	<u>1,078,092</u>	<u>878,619</u>

22 Income tax

<i>Income tax recognised in profit or loss</i>	Consolidated financial statements		Separate financial statements	
	2022	2021 (Restated)	2022	2021
	<i>(in thousand Baht)</i>			
Current tax expense				
Current year	661,757	211,328	-	-
Under (over) provided in prior years	260	(52)	-	-
	<u>662,017</u>	<u>211,276</u>	<u>-</u>	<u>-</u>

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<i>Income tax recognised in profit or loss</i>	Consolidated financial statements		Separate financial statements	
	2022	2021 (Restated)	2022	2021
Deferred tax expense				
Movements in temporary differences	275,327	(34,103)	(6,888)	(751)
Total income tax expense (income)	937,344	177,173	(6,888)	(751)

Consolidated financial statements						
	2022		2021			
<i>Income tax</i>	Before tax	Tax expense	Net of tax	Before tax	Tax benefit	Net of tax
			(in thousand Baht)			
Recognised in other comprehensive income						
Financial assets measured at fair value through other comprehensive income (expense)	(32,328)	(80,559)	(112,887)	123,540	(52,963)	70,577
Derivatives	(210,511)	(207,019)	(417,530)	613,256	(11,614)	601,642
Defined benefit plan actuarial gain	3,490	(328)	3,162	6,123	(1,224)	4,899
Total	(239,349)	(287,906)	(527,255)	742,919	(65,801)	677,118

Separate financial statements						
	2022		2021			
<i>Income tax</i>	Before tax	Tax expense	Net of tax	Before tax	Tax benefit	Net of tax
			(in thousand Baht)			
Recognised in other comprehensive income						
Financial assets measured at fair value through other comprehensive income	401,871	(80,374)	321,497	264,813	(52,963)	211,850
Defined benefit plan actuarial gain	-	-	-	3,318	(663)	2,655
Total	401,871	(80,374)	321,497	268,131	(53,626)	214,505

Reconciliation of effective tax rate				
	Consolidated financial statements			
	2022	2021		
	Rate (%)	(in thousand Baht)	Rate (%)	(in thousand Baht)
Profit before income tax expense		6,613,529		8,000,086
Share of profit of joint ventures and associates		(5,391,157)		(5,902,401)
		1,222,372		2,097,685
Income tax using the Thai corporation tax rate	20	244,474	20	419,537
Effect of different tax rates in foreign jurisdictions		348,724		200,291
Income not subject to tax		(357,367)		(354,251)
Recognition of previously unrecognised tax losses		-		(109,313)
Current year losses for which no deferred tax asset was recognised		119,706		85,768

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Reconciliation of effective tax rate

	Consolidated financial statements			
	2022	2021		
	Rate (%)	(in thousand Baht)	Rate (%)	(in thousand Baht)
Expenses deductible at a greater amount		(3,285)		(213,649)
Expenses not deductible for tax purposes		624,671		174,019
Under (over) provided in prior years		260		(52)
Others		(39,839)		(25,177)
Income tax expense	14.17	937,344	2.21	177,173

	Separate financial statements			
	2022	2021		
	Rate (%)	(in thousand Baht)	Rate (%)	(in thousand Baht)
Profit before income tax expense		1,896,571		3,139,342
Income tax using the Thai corporation tax rate	20	379,314	20	627,868
Income not subject to tax-dividend income		(496,881)		(705,865)
Effect from expense not deductible for tax purposes and income and expenses recognised in the different periods between accounting and tax		(1,457)		(67)
Current year losses for which no deferred tax asset was recognised		112,136		77,313
Total	(0.36)	(6,888)	(0.02)	(751)

	Consolidated financial statements			
	Assets		Liabilities	
Deferred tax	2022	2021	2022	2021
At 31 December		(in thousand Baht)		
Total	4,459,448	4,771,046	(10,066,749)	(9,504,553)
Set off of tax	(4,459,448)	(4,673,374)	4,459,448	4,673,374
Net deferred tax assets (liabilities)	-	97,672	(5,607,301)	(4,831,179)

	Separate financial statements			
	Assets		Liabilities	
Deferred tax	2022	2021	2022	2021
At 31 December		(in thousand Baht)		
Total	60,955	55,350	(138,021)	(58,930)
Set off of tax	(60,955)	(55,350)	60,955	55,350
Net deferred tax liabilities	-	-	(77,066)	(3,580)

Consolidated financial statements						
(Charged) / Credited to:						
Deferred tax	At 1 January	Profit or loss	Other comprehensive income	Exchange differences	Acquire through business combination	At 31 December
(in thousand Baht)						
2022						
Deferred tax assets						
Property, plant and equipment	3,895,726	(564,666)	-	14,111	-	3,345,171
Lease receivable	28,680	-	-	980	-	29,660
Allowance for expected credit loss for financial assets	1,916	977	-	-	-	2,893

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Consolidated financial statements						
(Charged) / Credited to:						
Deferred tax	At 1 January	Profit or loss	Other comprehensive income (in thousand Baht)	Exchange differences	Acquire through business combination	At 31 December
Deferred tax assets						
Allowance of spare parts and supplies	224,462	12,814	-	(1,385)	-	235,891
Leases liabilities	13,907	(983)	-	101	33,397	46,422
Derivatives	37,401	-	(207,204)	2,181	428,421	260,799
Provisions for employee benefits	50,914	3,605	(258)	-	-	54,261
Loss carry forward	249,895	(49,863)	-	(4,879)	130,049	325,202
Others	268,145	(95,730)	(69)	4,333	(17,530)	159,149
Total	4,771,046	(693,846)	(207,531)	15,442	574,337	4,459,448
Deferred tax liabilities						
Property, plant and equipment	(2,367,245)	14,773	-	73,969	(129,035)	(2,407,538)
Right-of use assets	(8,877)	817	-	(248)	-	(8,308)
Intangible assets	(823,534)	11,005	-	-	(379,809)	(1,192,338)
Lease receivable	(5,825,952)	431,453	-	(128,667)	-	(5,523,166)
Derivatives	(167)	167	-	-	(51,621)	(51,621)
Financial assets measured at fair value through other comprehensive income (expense)	(52,963)	-	(80,374)	-	-	(133,337)
Others	(425,815)	(39,696)	-	15,192	(300,122)	(750,441)
Total	(9,504,553)	418,519	(80,374)	(39,754)	(860,587)	(10,066,749)
Net	(4,733,507)	(275,327)	(287,905)	(24,312)	(286,250)	(5,607,301)

Consolidated financial statements						
(Charged) / Credited to:						
Deferred tax	At 1 January	Profit or loss	Other comprehensive income (in thousand Baht)	Exchange differences	Acquire through business combination	At 31 December
2021						
Deferred tax assets						
Property, plant and equipment	2,922,668	(406,968)	-	70,182	1,309,844	3,895,726
Lease receivable	-	-	-	689	27,991	28,680
Allowance for expected credit loss for financial assets	3,854	(1,938)	-	-	-	1,916
Allowance for spare parts and supplies	229,926	(7,500)	-	2,036	-	224,462
Leases liabilities	13,847	(2,900)	-	70	2,890	13,907
Derivatives	8,343	-	(11,614)	815	39,857	37,401
Provisions for employee benefits	45,979	58	(1,224)	-	6,101	50,914
Loss carry forward	373,558	(142,266)	-	18,603	-	249,895
Others	102,356	3,116	-	9,265	153,408	268,145
Total	3,700,531	(558,398)	(12,838)	101,660	1,540,091	4,771,046

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Consolidated financial statements						
(Charged) / Credited to:						
<i>Deferred tax</i>	At 1 January	Profit or loss	Other comprehensive income (in thousand Baht)	Exchange differences	Acquire through business combination	At 31 December
Deferred tax liabilities						
Property, plant and equipment	(2,222,546)	27,766	-	(119,028)	(53,437)	(2,367,245)
Right-of use assets	(9,119)	2,949	-	165	(2,872)	(8,877)
Intangible assets	(196,221)	11,005	-	-	(638,318)	(823,534)
Lease receivable	(2,627,864)	518,772	-	(89,246)	(3,627,614)	(5,825,952)
Derivatives	(1,164)	997	-	-	-	(167)
Financial assets measured at fair value through other comprehensive income (expense)	-	-	(52,963)	-	-	(52,963)
Others	(432,966)	30,130	-	(22,979)	-	(425,815)
Total	(5,489,880)	591,619	(52,963)	(231,088)	(4,322,241)	(9,504,553)
Net	(1,789,349)	33,221	(65,801)	(129,428)	(2,782,150)	(4,733,507)

Separate financial statements					
(Charged) / Credited to:					
<i>Deferred tax</i>	At 1 January	Retained earnings	Profit or loss (in thousand Baht)	Other comprehensive income	At 31 December
2022					
Deferred tax assets					
Allowance for expected credit loss for financial assets	10,494	-	3,636	-	14,130
Lease liabilities	6,269	-	(1,335)	-	4,934
Provisions for employee benefits	38,587	-	3,304	-	41,891
Total	55,350	-	5,605	-	60,955
Deferred tax liabilities					
Right-of use assets	(5,967)	-	1,283	-	(4,684)
Financial assets measured at fair value through other comprehensive income (expense)	(52,963)	-	-	(80,374)	(133,337)
Total	(58,930)	-	1,283	(80,374)	(138,021)
Net	(3,580)	-	6,888	(80,374)	(77,066)
2021					
Deferred tax assets					
Allowance for expected credit loss for financial assets	10,501	-	(7)	-	10,494
Lease liabilities	8,577	-	(2,308)	-	6,269
Provisions for employee benefits	38,561	-	689	(663)	38,587
Total	57,639	-	(1,626)	(663)	55,350

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	At 1 January	Separate financial statements (Charged) / Credited to:			At 31 December
		Retained earnings	Profit or loss (in thousand Baht)	Other comprehensive income	
Deferred tax					
Deferred tax liabilities					
Right-of use assets	(8,344)	-	2,377	-	(5,967)
Financial assets measured at fair value through other comprehensive income (expense)	-	-	-	(52,963)	(52,963)
Total	(8,344)	-	2,377	(52,963)	(58,930)
Net	49,295	-	751	(53,626)	(3,580)
Unrecognised deferred tax assets	Consolidated financial statements		Separate financial Statements		
	2022	2021	2022	2021	
	(in thousand Baht)				
Losses carry forward	827,478	720,793	555,386	443,250	

As at 31 December 2022, the Group has outstanding balance of deferred tax assets of Baht 325.20 million from cumulative tax losses of an indirect subsidiary in overseas. The Group's management has estimated future taxable profits and they considered it probable that future taxable profits would be available against which such losses can be used. The tax losses in such country has unlimited and no expiration date, therefore, the related deferred tax assets are recognised.

23 Promotional privileges

Some subsidiaries have been granted promotional certificates by the Office of the Board of Investment for electricity and steam for the several privileges including exemption and/or reduction from payment of income tax on the net profit derived from promoted operations with certain terms and conditions prescribed in the promotional certificates.

As promoted companies, the subsidiaries must comply with certain terms and conditions prescribed in the promotional certificates.

24 Basic earnings per share

	Consolidated financial statements		Separate financial statements	
	2022	2021 (Restated)	2022	2021
(in thousand Baht/ thousand shares)				
Profit for the year attributable to ordinary shareholders of the Company (basic)	5,782,072	7,818,800	1,903,460	3,140,092
Share capital as at 1 January	1,450,000	1,450,000	1,450,000	1,450,000
Effect from issued shares	383,356	-	383,356	-
Weighted average number of ordinary shares outstanding	1,833,356	1,450,000	1,833,356	1,450,000
Earnings per share (basic) (in Baht)	3.15	5.39	1.04	2.17

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25 Dividends

	Approval date	Payment schedule	Dividend rate per share (Baht)	Amount (in million Baht)
2022				
Annual dividend for the year 2021	27 April 2022	May 2022	2.50	3,625
Interim dividend for the year 2021	24 August 2021	September 2021	(1.15)	(1,667)
Additional dividend			1.35	1,958
Interim dividend for the year 2022	26 August 2022	September 2022	0.80	1,740
Total dividend				3,698
2021				
Annual dividend for the year 2020	5 April 2021	April 2021	2.40	3,480
Interim dividend for the year 2020	24 August 2020	September 2020	(1.15)	(1,667)
Additional dividend			1.25	1,813
Interim dividend for the year 2021	24 August 2021	September 2021	1.15	1,667
Total dividend				3,480

26 Financial instruments

(a) Carrying amounts and fair values

The following table shows the carrying amounts and fair values of financial assets and financial liabilities, including their levels in the fair value hierarchy. It does not include fair value information for financial assets and financial liabilities measured at amortised cost if the carrying amount is a reasonable approximation of fair value.

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	Consolidated financial statements								
	Carrying amount				Total (in thousand Baht)	Fair value			
<i>At 31 December</i>	Hedging instruments	Financial instruments measured at FVTPL	Financial instruments measured at FVOCI	Financial instruments measured at amortised cost		Level 1	Level 2	Level 3	Total
2022									
Financial assets									
Other current financial assets:									
Investment in debt instruments	-	2,884,016	-	-	2,884,016	-	2,884,016	-	2,884,016
Other non-current financial assets:									
Investment in equity instruments	-	-	3,466,495	-	3,466,495	3,013,776	-	452,719	3,466,495
Investment in debt instruments	-	-	-	566,030	566,030	-	568,405	-	568,405
Long term loan to other related parties	-	-	-	4,467,776	4,467,776	-	4,362,205	-	4,362,205
Interest rate swaps used for hedging	1,140,507	-	-	-	1,140,507	-	1,140,507	-	1,140,507
Derivatives assets	-	306,534	-	-	306,534	-	306,534	-	306,534
Financial liabilities									
Long-term loans from financial institutions	-	-	-	(61,660,126)	(61,660,126)	-	(61,452,576)	-	(61,452,576)
Long-term loans	-	-	-	(346,959)	(346,959)	-	-	(368,342)	(368,342)
Debentures	-	-	-	(24,918,623)	(24,918,623)	-	(26,075,350)	-	(26,075,350)
Interest rate swaps used for hedging	(7,268)	-	-	-	(7,268)	-	(7,268)	-	(7,268)
Energy derivatives	(2,232,471)	(1,492,014)	-	-	(3,724,485)	-	(3,724,485)	-	(3,724,485)

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	Consolidated financial statements								
	Carrying amount					Fair value			
	Hedging instruments	Financial instruments measured at FVTPL	Financial instruments measured at FVOCI	Financial instruments measured at amortised cost	Total	Level 1	Level 2	Level 3	Total
<i>At 31 December</i>					<i>(in thousand Baht)</i>				
2021									
Financial assets									
Other current financial assets:									
Investment in debt instruments	-	857,234	-	29,995	887,229	-	887,388	-	887,388
Other non-current financial assets:									
Investment in equity instruments	-	-	3,478,209	-	3,478,209	3,023,653	-	454,556	3,478,209
Investment in debt instruments	-	-	-	535,939	535,939	-	554,821	-	554,821
Derivatives assets	-	834	-	-	834	-	834	-	834
Financial liabilities									
Long-term loans from financial institutions	-	-	-	(29,415,722)	(29,415,722)	-	(29,452,622)	-	(29,452,622)
Long-term loans	-	-	-	(320,000)	(320,000)	-	-	(340,784)	(340,784)
Debentures	-	-	-	(24,351,692)	(24,351,692)	-	(26,802,264)	-	(26,802,264)
Interest rate swaps used for hedging	(667,451)	-	-	-	(667,451)	-	(667,451)	-	(667,451)
Foreign currency forward used for hedging	(1,793)	-	-	-	(1,793)	-	(1,793)	-	(1,793)
Other derivatives liabilities	-	(137,826)	-	-	(137,826)	-	(137,826)	-	(137,826)

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	Separate financial statement					Fair value			
	Carrying amount								
<i>At 31 December</i>	Hedging instruments	Financial instruments measured at FVTPL	Financial instruments measured at FVOCI	Financial instruments measured at amortised cost	Total	Level 1	Level 2	Level 3	Total
					<i>(in thousand Baht)</i>				
2022									
Financial assets									
Other current financial assets:									
Investment in debt instruments	-	2,327,276	-	-	2,327,276	-	2,327,276	-	2,327,276
Other non-current financial assets:									
Investment in equity instruments	-	-	2,471,690	-	2,471,690	2,208,971	-	262,719	2,471,690
Investment in debt instruments	-	-	-	112,915	112,915	-	114,106	-	114,106
Financial liabilities									
Long-term loan from financial institution	-	-	-	(21,484,188)	(21,484,188)	-	(21,510,850)	-	(21,510,850)
Debentures	-	-	-	(7,991,446)	(7,991,446)	-	(7,555,370)	-	(7,555,370)
2021									
Financial assets									
Other current financial assets:									
Investment in debt instruments	-	305,669	-	29,995	335,664	-	335,823	-	335,823
Other non-current financial assets:									
Investment in equity instruments	-	-	2,069,818	-	2,069,818	1,805,262	-	264,556	2,069,818
Investment in debt instruments	-	-	-	82,937	82,937	-	86,444	-	86,444
Financial liabilities									
Long-term loan from financial institution	-	-	-	(5,000,000)	(5,000,000)	-	(5,029,453)	-	(5,029,453)
Debentures	-	-	-	(7,989,734)	(7,989,734)	-	(7,976,149)	-	(7,976,149)

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The following tables present valuation technique of financial instruments measured at fair value in the statements of financial position:

Type	Valuation technique
Corporate debt securities	<i>Market price comparison technique/discounted cash flow:</i> The fair value is estimated considering (i) current or recent quoted prices for identical securities in markets that are not active and (ii) a net present value calculated using discount rates derived from quoted prices of securities with similar maturity and credit rating that are traded in active markets, adjusted by an illiquidity factor.
Investments in marketable unit trusts classified as financial assets measured at FVTPL or FVOCI	The net asset value as of the reporting date.
Forward exchange contracts	<i>Forward pricing:</i> The fair value is determined using quoted forward exchange rates at the reporting date and present value calculations based on high credit quality yield curves in the respective currencies.
Interest rate swap contracts	<i>Swap models:</i> The present value of estimated future cash flows, using an observable yield curve.
Cross currency swap contracts	<i>Black-Scholes model/ discounted cash flows</i>
Debt securities, Energy derivatives and other financial liabilities	Discounted cash flows

(b) Financial risk management policies

Risk management framework

The Group's board of directors has overall responsibility for the establishment and oversight of the Group's risk management framework. The board of directors has established the risk management committee, which is responsible for developing and monitoring the Group's risk management policies. The committee reports regularly to the board of directors on its activities.

The Group's risk management policies are established to identify and analyse the risks faced by the Group, to set appropriate risk limits and controls and to monitor risks and adherence to limits. Risk management policies and systems are reviewed regularly to reflect changes in market conditions and the Group's activities. The Group, through its training and management standards and procedures, aims to maintain a disciplined and constructive control environment in which all employees understand their roles and obligations.

The Group audit committee oversees how management monitors compliance with the Group's risk management policies and procedures and reviews the adequacy of the risk management framework in relation to the risks faced by the Group. The Group audit committee is assisted in its oversight role by internal audit. Internal audit undertakes both regular and ad hoc reviews of risk management controls and procedures, the results of which are reported to the audit committee.

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(b.1) Credit risk

Credit risk is the risk of financial loss to the Group if a customer or counterparty to a financial instrument fails to meet its contractual obligations and arises principally from the Group's receivables from customers and investments in debt securities.

(b.1.1) Trade accounts receivables

The management has established a credit policy to control the credit risk on a regular basis by analysing the financial status of every customers who requested a certain amount of credit. As of the reporting date, there were no significant credit risk exposure. The maximum credit risk is stated in the book value of each financial asset in the statement of financial position. However, as the major customers of the Group are government agencies, state of enterprises and large corporations with low credit risk. Management does not expect any material losses incurred from debt collection.

The Group limits its exposure to credit risk from trade accounts receivables by establishing a maximum payment period of one month. Outstanding trade receivables are regularly monitored by the Group. An impairment analysis is performed by the Group at each reporting date. The provision rates of expected credit loss are based on days past due for individual trade receivables to reflect differences between economic conditions in the past, current conditions and the Group's view of economic conditions over the expected lives of the receivables.

Information relevant to trade accounts receivables is disclosed in note 7

(b.1.2) Investment in debt securities, loan to and lease receivable

The Group limits its exposure to credit risk by investing only in liquid debt securities and only with reliable counterparties that have consider a credit rating by international credit rating institutions.

The Group monitors changes in credit risk by tracking published external credit ratings. To assess whether there has been a significant increase in credit risk at the reporting date that has not been reflected in published ratings.

The following table presents the exposure to credit risk and expected credit losses.

<i>At 31 December</i>	12-months ECL	Consolidated financial statements		Total
		Lifetime ECL - not credit - impaired	Lifetime ECL - credit - impaired	
		<i>(in thousand Baht)</i>		
2022				
Debt instruments measured at amortised cost	563,000	-	-	563,000
Loans to	5,272,440	-	-	5,272,440
Lease receivable	25,718,235	-	-	25,718,235
	31,553,675	-	-	31,553,675
Less allowance for expected credit loss	(170,921)	-	-	(170,921)
Net	31,382,754	-	-	31,382,754

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<i>At 31 December</i>	12-months ECL	Consolidated financial statements		Total
		Lifetime ECL - not credit - impaired	Lifetime ECL - credit - impaired	
		<i>(in thousand Baht)</i>		
2021				
Debt instruments measured at amortised cost	563,000	-	-	563,000
Loans to	3,377,179	-	-	3,377,179
Lease receivable	28,170,235	-	-	28,170,235
	32,110,414	-	-	32,110,414
Less allowance for expected credit loss	(160,804)	-	-	(160,804)
Net	31,949,610	-	-	31,949,610
		Separate financial statements		
	12-months ECL	Lifetime ECL - not credit - impaired	Lifetime ECL - credit - impaired	Total
		<i>(in thousand Baht)</i>		
2022				
Debt instruments measured at amortised cost	113,000	-	-	113,000
Loans to	4,068,658	-	-	4,068,658
	4,181,658	-	-	4,181,658
Less allowance for expected credit loss	(70,652)	-	-	(70,652)
Net	4,111,006	-	-	4,111,006
2021				
Debt instruments measured at amortised cost	113,000	-	-	113,000
Loans to	3,042,116	-	-	3,042,116
	3,155,116	-	-	3,155,116
Less allowance for expected credit loss	(52,469)	-	-	(52,469)
Net	3,102,647	-	-	3,102,647
		Consolidated financial statements		
	12-months ECL	Lifetime ECL - not credit- impaired	Lifetime ECL - credit- impaired	Total
		<i>(in thousand Baht)</i>		
Movement of allowance for expected credit loss				
2022				
At 1 January	160,804	-	-	160,804
Net remeasurement of loss allowance	1,706	-	-	1,706
Financial assets repaid	(5)	-	-	(5)
New financial assets acquired	8,416	-	-	8,416
At 31 December	170,921	-	-	170,921

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Consolidated financial statements				
<i>Movement of allowance for expected credit loss</i>	12-months ECL	Lifetime ECL - not credit-impaired	Lifetime ECL - credit-impaired	Total
<i>(in thousand Baht)</i>				
2021				
At 1 January	37,290	-	-	37,290
Net remeasurement of loss allowance	(6,698)	-	-	(6,698)
Financial assets repaid	(615)	-	-	(615)
New financial assets acquired	463	-	-	463
Acquisition through business combination	130,364	-	-	130,364
At 31 December	160,804	-	-	160,804
Separate financial statements				
<i>Movement of allowance for expected credit loss</i>	12-months ECL	Lifetime ECL - not credit-impaired	Lifetime ECL - credit-impaired	Total
<i>(in thousand Baht)</i>				
2022				
At 1 January	52,468	-	-	52,468
Net remeasurement of loss allowance	(2,208)	-	-	(2,208)
Financial assets repaid	(661)	-	-	(661)
New financial assets acquired	21,053	-	-	21,053
At 31 December	70,652	-	-	70,652
2021				
At 1 January	52,504	-	-	52,504
Net remeasurement of loss allowance	(11,553)	-	-	(11,553)
Financial assets repaid	(345)	-	-	(345)
New financial assets acquired	11,862	-	-	11,862
At 31 December	52,468	-	-	52,468

(b.1.3) Cash and cash equivalent and derivatives

The Group's exposure to credit risk arising from cash and cash equivalents and derivative assets is limited because the counterparties are banks and financial institutions which the Group considers to have low credit risk.

(b.1.4) Guarantees

The Group's policy is to provide the guarantees only for the financial facilities of subsidiaries. At 31 December 2022, the Group has provided a guarantee to certain banks in respect of credit facilities granted to a subsidiary (see note 5, 16).

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(b.2) Liquidity risk

The Group monitors its liquidity risk and maintains a level of cash and cash equivalents deemed adequate by management to finance the Group's operations and to mitigate the effects of fluctuations in cash flows.

The following table shows the remaining contractual maturities of financial liabilities at the reporting date. The amounts are gross and undiscounted and include contractual interest payments and exclude the impact of netting agreements.

<i>At 31 December</i>	Carrying amount	Consolidated financial statements			
		Contractual cash flows			
		1 year or less	More than 1 years but less than 5 years (in thousand Baht)	More than 5 years	Total
2022					
<i>Non-derivative financial liabilities</i>					
Trade payables	9,606,493	9,606,493	-	-	9,606,493
Loans from financial institutions	70,345,013	15,934,090	46,614,568	21,044,882	83,593,540
Loans from other related parties	346,959	13,107	396,716	-	409,823
Lease liabilities	3,364,543	179,667	890,137	4,006,650	5,076,454
Debentures	24,918,623	1,296,782	7,642,647	21,558,131	30,497,560
	108,581,631	27,030,139	55,544,068	46,609,663	129,183,870
<i>Derivative financial liabilities</i>					
Interest rate swaps	7,268	-	7,268	-	7,268
Cross currency swap contract	63,944	-	63,944	-	63,944
Energy derivatives	3,660,541	1,157,918	1,999,266	503,357	3,660,541
	3,731,753	1,157,918	2,070,478	503,357	3,731,753
2021					
<i>Non-derivative financial liabilities</i>					
Trade payables	7,676,876	7,676,876	-	-	7,676,876
Loans from financial institutions	34,780,618	9,047,822	24,222,784	4,265,275	37,535,881
Loans from other related parties	320,000	11,200	44,831	329,574	385,605
Lease liabilities	1,666,936	166,819	504,962	2,719,502	3,391,283
Debentures	24,351,692	2,231,062	3,213,107	24,446,251	29,890,420
	68,796,122	19,133,779	27,985,684	31,760,602	78,880,065
<i>Derivative financial liabilities</i>					
Interest rate swaps	667,451	173,612	294,805	199,034	667,451
Cross currency swap contract	137,764	-	137,764	-	137,764
Forward exchange contracts					
- Cash outflow	(168,697)	(168,697)	-	-	(168,697)
- Cash inflow	170,552	170,552	-	-	170,552
	807,070	175,467	432,569	199,034	807,070

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		Separate financial statements			
		Contractual cash flows			
<i>At 31 December</i>	Carrying amount	1 year or less	More than 1 years but less than 5 years (in thousand Baht)	More than 5 years	Total
<i>2022</i>					
<i>Non-derivative financial liabilities</i>					
Loans from financial institutions	21,484,188	671,781	21,735,422	-	22,407,203
Long-term loans from related parties	5,090,000	5,124,799	-	-	5,124,799
Lease liabilities	24,665	15,041	11,186	-	26,227
Debentures	7,991,446	1,194,252	2,175,605	6,533,342	9,903,199
	<u>34,590,299</u>	<u>7,005,873</u>	<u>23,922,213</u>	<u>6,533,342</u>	<u>37,461,428</u>
<i>2021</i>					
<i>Non-derivative financial liabilities</i>					
Loans from financial institutions	7,536,000	2,591,679	5,096,088	-	7,687,767
Long-term loans from related parties	5,140,000	5,159,818	-	-	5,159,818
Lease liabilities	31,342	16,884	16,667	-	33,551
Debentures	7,989,734	196,350	3,213,107	6,690,092	10,099,549
	<u>20,697,076</u>	<u>7,964,731</u>	<u>8,325,862</u>	<u>6,690,092</u>	<u>22,980,685</u>

The cash inflows and cash outflows disclosed in the above table represent the contractual undiscounted cash flows relating to derivative financial liabilities held for risk management purposes and which are not usually closed out before contractual maturity. The disclosure shows net cash flow amounts for derivatives that are net cash-settled and gross cash inflow and outflow amounts for derivatives that have simultaneous gross cash settlement.

(b.3) Market risk

The Group is exposed to the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risk is as follows:

Managing interest rate benchmark reform (IBOR reform)

The Group monitors and considers the transition from the IBOR discontinuation by determining that contracts reference IBOR will need to be amended to alternative rates. It provides periodic reports to management of interest rate risk and risks arising from IBOR discontinuation.

The Group's main IBOR exposure at 31 December 2022 was indexed to LIBOR and THBFIIX. As at 31 December 2022, the Group has negotiated to amend the contractual terms for some of the LIBOR and THBFIIX indexed exposures to SOFR and THOR.

The following table shows the total amounts of financial instruments that have yet to transition to alternative benchmark rates. The amounts of financial assets and financial liabilities are shown at their carrying amounts.

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<i>Key reference rate under the existing contracts</i>	Consolidated financial statements		Separate financial statements	
	LIBOR	THBFIX (in thousand Baht)	LIBOR	THBFIX
At 31 December 2022				
Loan to related parties	651,563	-	651,563	-
Loan to other parties	2,764,992	-	-	-
Derivative assets	6,159,367	-	-	-
Loans from financial institutions	6,111,643	5,425,205	-	-

(b.3.1) Foreign currency risk

The Group is exposed to foreign currency risk relating to purchases which are denominated in foreign currencies. The Group primarily utilises forward exchange contracts with maturities of less than one year to hedge such financial assets and liabilities denominated in foreign currencies. The forward exchange contracts entered into at the reporting date also relate to anticipated purchases, denominated in foreign currencies, for the subsequent period.

At 31 December, the Group and the Company were exposed to foreign currency risk in respect of significant financial assets and liabilities denominated in the foreign currencies as follows:

	Consolidated financial statements		Separate financial statements	
	2022	2021 (in thousand Baht)	2022	2021
United States Dollars				
Other current receivables	24,376	3,006	48,600	65,055
Long-term loans to related parties	651,563	600,042	1,769,567	1,680,839
Trade payable	(151,072)	-	-	-
Other current payables	(518,827)	(76,279)	(18,152)	(17,284)
Lao Kip				
Other non-current financial assets	794,930	1,209,441	-	-
Other current payables	(7,626)	(5,133)	-	-
Vietnamese Dong				
Trade payable	(335)	-	-	-
Other current payables	(4,416)	-	-	-
Australian Dollars				
Trade payable	(525,419)	-	-	-
Other current payables	(652,709)	(37,337)	(3,379)	(3,757)
Singapore Dollars				
Other current payables	(1,949)	-	-	-
Japanese Yen				
Other current receivables	-	5,615	-	5,615
Other current payables	(37,747)	(367,940)	-	(1,230)
Debentures	(3,926,395)	(4,351,652)	-	-

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	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<i>Others</i>				
Trade payable	(14,506)	-	-	-
Other current payables	(30,121)	(620)	(1,522)	(27)
Gross balance sheet exposure	(4,400,253)	(3,020,857)	1,795,114	1,729,211
Estimated forecast purchases	(185,803)	(3,664)	-	-
Gross exposure	(4,586,056)	(3,024,521)	1,795,114	1,729,211
Foreign currency forward contracts	-	168,697	-	-
Cross currency swap contracts	3,929,745	4,356,284	-	-
Net exposure	(656,311)	1,500,460	1,795,114	1,729,211

Sensitivity analysis

A reasonably possible strengthening (weakening) of Thai Baht against all other foreign currencies at the reporting date would have affected the measurement of financial instruments denominated in a foreign currency. This analysis assumes that all other variables, in particular interest rates, remain constant.

		Consolidated financial statements		Separate financial statements	
<i>Impact to profit or loss</i>	<i>Movement</i>	<i>Strengthening</i>	<i>Weakening</i>	<i>Strengthening</i>	<i>Weakening</i>
	<i>(%)</i>		<i>(in thousand Baht)</i>		
2022					
US Dollars	5	318	(318)	94,738	(94,738)
Lao Kip	5	41,437	(41,437)	-	-
Vietnamese Dong	5	(250)	250	-	-
Australian Dollars	5	(62,007)	62,007	(178)	178
Singapore Dollars	5	(103)	103	-	-
Japanese Yen	5	(208,639)	208,639	-	-
2021					
US Dollars	5	27,725	(27,725)	90,979	(90,979)
Lao Kip	5	63,385	(63,385)	-	-
Australian Dollars	5	(1,965)	1,965	(198)	198
Japanese Yen	5	(248,104)	248,104	231	(231)

(b.3.2) Interest rate risk

Interest rate risk is the risk that future movements in market interest rates will affect the results of the Group's operations and its cash flows because debt securities and loan interest rates financial liabilities are mainly variable. So the Group is primarily exposed to interest rate risk. The Group mitigates this risk by ensuring that the majority of its debt securities and borrowings are at fixed interest rates and uses derivatives, principally interest rate swaps, to manage exposure to fluctuations in interest rates on specific debt securities and borrowings.

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<i>Exposure to interest rate risk</i>	Consolidated financial statements		Separate financial statements	
<i>At 31 December</i>	2022	2021	2022	2021
	<i>(in thousand Baht)</i>			
<i>Financial instruments with variable interest rates</i>				
Financial assets	6,267,268	4,102,926	3,111,059	1,084,543
Financial liabilities	(56,394,534)	(23,879,172)	(16,484,188)	-
Net statement of financial position exposure	(50,127,266)	(19,776,246)	(13,373,129)	1,084,543
Interest rate swaps	24,366,506	16,476,327	-	-
Net exposure	(25,760,760)	(3,299,919)	(13,373,129)	1,084,543

Interest rate swap and cross currency swap contracts

The Group entered into various interest rate swap and cross currency swap contracts with financial institutions to manage exposure of fluctuations in interest rates and foreign currency risk on borrowings. The notional amounts of the outstanding interest rate swap and cross currency swap contracts as at 31 December 2022 comprises Baht currency totalling Baht 3,563.49 million, Japanese Yen currency totalling Japanese Yen 15,000.00 million, Australian Dollars currency totalling Australian Dollars 626.36 million and US Dollars currency totalling US Dollars 178.21 million. All counterparties agreed to pay the interest and the principal amount in accordance with the terms and conditions specified in the contracts (2021: Baht currency totalling Baht 1,421.40 million, Japanese Yen currency totalling Japanese Yen 15,000.00 million, Australian Dollars currency totalling Australian Dollars 445.29 million and US Dollars currency totalling US Dollars 157.12 million).

Cash flow sensitivity analysis for variable-rate instruments

A reasonable possible change of 1% in interest rates at the reporting date, this analysis assumes that all other variables, in particular foreign currency exchange rates, remain constant.

<i>Impact to profit or loss</i>	Consolidated financial statements		Separate financial statements	
	1% increase in interest rate	1% decrease in interest rate	1% increase in interest rate	1% decrease in interest rate
	<i>(in thousand Baht)</i>			
2022				
Financial instruments with variable interest rate	(501,273)	501,273	(133,731)	133,731
Interest rate swaps	(125)	125	-	-
2021				
Financial instruments with variable interest rate	(197,762)	197,762	10,845	(10,845)
Interest rate swaps	542	(542)	-	-

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(c) *Hedge accounting*

(c.1) *Cash flow hedges*

At 31 December 2022 and 2021, the Group held the following financial instruments to hedge exposures to changes in interest rates.

Consolidated financial statements						
At 31 December	2022			2021		
	Within	Maturity		Within	Maturity	
	1 year	After 1		1 year	After 1	
		year but			year but	
		within	After		within	After
		5 years	5 years		5 years	5 years
			(in thousand Baht)			
Interest rate risk						
<i>Interest rate swaps</i>						
Net exposure (in thousand Baht)	(41,601)	(31,622)	(1,366,550)	173,612	294,805	199,034
Average fixed interest rate (%)	3.11	3.76	2.20	2.70	4.55	2.94
Energy price volatility risk						
Energy derivatives	-	-	(2,035,901)	-	-	-

The amounts at the reporting date relating to items designated as hedged items were as follows.

	Consolidated financial statements	
<i>At 31 December</i>	2022	2021
	Cash flow hedge reserve	
	<i>(in thousand Baht)</i>	
<i>Interest rate risk</i>		
Variable-rate instruments	<u>2,870,029</u>	<u>335,855</u>
<i>Energy price volatility risk</i>		
Energy derivative	(2,035,901)	-

The following table provides a reconciliation by risk category of components of equity and analysis of OCI items, net of tax, resulting from cash flow hedge accounting.

Consolidated financial statements		
Cash flow hedges	2022	2021
	Hedging reserve	
	(in thousand Baht)	
Balance at 1 January	335,855	937,497
Cash flow hedges		
Changes in fair value Interest rate risk	2,870,029	(601,642)
Changes in fair value Energy price volatility risk	(2,035,901)	-
Balance at 31 December	1,169,983	335,855

27 Capital management

The Board of Director's Policy is to support the Group's growth and sustain liquidity at an optimal level so such capitals generate maximum value to the shareholders and maintain creditability for lenders and the capital markets. The Board of Directors has regulated the return on investment which includes returns from operating activities on total equity, excluding non-controlling interests and supervising the payment of dividends to the shareholders.

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28 Commitments with non-related parties

Operation and Maintenance Agreement

On 9 December 2019, RATCH Cogeneration Company Limited, a direct subsidiary, entered into an Operation and Maintenance Agreement with a service provider for a period of 19 years from the date specified in the agreement. Under the terms of the agreement, such service provider will operate and provide maintenance services to the subsidiary. The operation and maintenance service fee is stipulated in the agreement.

Fuel Purchase Agreements

On 27 October 2000, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into a Gas Sales Agreement with PTT Public Company Limited (“PTT”) for a period of 25 years. PTT will distribute natural gas to such subsidiary at the agreed quantity and price.

On 1 June 2004, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into a Diesel Purchase Agreement with PTT for a period of 3 years. PTT will distribute diesel to such subsidiary at the agreed quantity and price. The agreement is automatically extended for a period of 1 year unless written notice at least 6 months before the agreement automatically extended. On 8 March 2018, PTT Public Company Limited and the Company entered into an amendment of the agreement, which modified a party to the contract from PTT Public Company Limited to PTT Oil and Retail Business Public Company Limited (“PTTOR”).

On 11 October 2021, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into a Fuel Purchase Agreement with PTT Oil and Retail Business Public Company Limited (“PTTOR”) and Esso (Thailand) Public Company Limited to reserve the Fuel oil and generate electric of Combine Cycle power plant.

Subsequently in May 2022, the subsidiary entered into a Fuel oil Purchase Agreement with PTT Oil and Retail Business Public Company Limited (“PTTOR”) and Esso (Thailand) Public Company Limited for a period of a year. The agreement will expire on 24 May 2023 and 10 May 2023, respectively.

On 31 March 2011, RATCH Cogeneration Company Limited, a direct subsidiary, entered into a Gas Sales Agreement with PTT for a period of 25 years from the date of commercial gas usage. PTT will distribute natural gas to such subsidiary at the agreed quantity and price.

Sahacogen (Chonburi) Public Company Limited, a direct subsidiary, is committed to purchase natural gas from PTT Public Company Limited (“PTT”) in a specified quantity and at a stipulated price as defined in the agreement for a period of 21 years. The agreement expired in March 2020, however it contains an option to renew for an additional period of 4 years. Subsequently in December 2021, the subsidiary entered into an amendment of the purchase natural gas agreement with PTT which modified the terms of the agreement to end in April 2049.

Sahacogen (Chonburi) Public Company Limited, a direct subsidiary, is committed to purchase raw water with a private entity in a specified quantity and at a stipulated price as defined in the agreement for a period of 25 years. The agreement will expire in March 2024. In June 2020, the subsidiary entered into an amendment of the agreement with that private entity, which modified the price and terms of the agreement. This amended the term of the agreement to 10 years, ending in June 2030, with automatic renewal every 5 years throughout the term of the electricity sales agreements with the Electricity Generating Authority of Thailand (EGAT).

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Energy Pool Price

The Energy Policy and Planning Office (EPPO) approved the basis of natural gas prices calculation under the supervision of the Energy Regulatory Commission (Energy Pool Price). PTT Public Company Limited (“PTT”) had complied with the guidelines by using Energy Pool Price which notified by the Electricity Generating Authority of Thailand (“EGAT”) to set the price and collect the natural gas charges with all counterparties and return the differences in natural gas charges according to the guidelines prescribed by the Energy Regulatory Commission which resulted the Group, as a contractual party with PTT had to pay or receive the refund of the different amount between the Energy Pool Price and Pool Gas since April 2022 onwards until the change or termination by the government legal authorities.

Contractual Service Agreement

On 29 December 2005, Ratchaburi Electricity Generating Company Limited, a direct subsidiary, entered into a Contractual Service Agreement for the Combined Cycle power plants with the Consortium of General Electric International Operations Company Inc. and GE Energy Parts, Inc. The agreement is effective from the agreement date until the end of the operation of gas turbine according to the Power Purchase Agreement in 2027 with a total value of the existing agreement in US Dollars 428.60 million. Subsequently on 19 November 2019 and 25 August 2020, all parties agreed to amend the conditions of the agreement effective from August 2020. The total value of the agreement is US Dollars 436.75 million. As at 31 December 2022, the subsidiary had outstanding commitments amounting to US Dollars 50.66 million. (2021: US Dollars 75.60 million)

In addition, in accordance with the agreement, the subsidiary is required to open a letter of credit amounting to US Dollars 6 million. As at 31 December 2022, the subsidiary had an outstanding unused letter of credit amounting to US Dollars 6 million. (2021: US Dollars 6 million)

On 29 December 2019, RATCH Cogeneration Company Limited, a direct subsidiary, entered into a Contractual Service Agreement with a service provider for a period of 15 years from the date specified in the agreement. The total value of the agreement is US Dollars 28.33 million. As at 31 December 2022, the subsidiary had outstanding commitments amounting to US Dollars 12.54 million. (2021: US Dollars 15.43 million)

On 13 December 2022, RATCH Cogeneration Company Limited, a direct subsidiary, entered into Contractual Service Agreements for acquisition of equipment and maintenance generating electricity from natural gas machine and service maintenance for generating electricity from natural gas machine with 2 service providers for a period of 15 years from the date specified in the agreement. The total value of the agreement is Bath 24.90 million and Japanese Yen 854.00 million. As at 31 December 2022, the subsidiary had outstanding commitments amounting to Baht 24.57 million and Japanese Yen 842.80 million.

Electricity and Steam Sales Agreements

Sahacogen Green Company Limited, an indirect subsidiary, entered into an agreement with the Provincial Electricity Authority (PEA) to sell electricity in a specified quantity and at a stipulated price as defined in the agreement. The agreement is for a period of 5 years, and will automatically renew every 5 years until termination. In 2016, the subsidiary joined the program for producers of electricity from renewable energy sources to change from an Adder to a Feed-in Tariff (FiT), and as a result entered into an amendment to the sales and purchase of electricity agreement with PEA in September 2016, whereby it is required to comply with certain conditions and the period for purchase of electricity is reduced, with the agreement expiring in October 2027.

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Sahagreen Forest Company Limited, an indirect subsidiary, entered into an agreement with the Provincial Electricity Authority (PEA) to sell electricity in a specified quantity and at a stipulated price as defined in the agreement. The agreement is for a period of 20 years. Since the subsidiary joined the program for producers of electricity from renewable energy sources to change from an Adder to a Feed-in Tariff (FiT) in September 2016, the subsidiary entered into an amendment to the sales and purchase of electricity agreement with PEA, whereby it is required to comply with conditions regarding the sale and purchase of electricity and connection to the electricity grid and the period for purchase of electricity is reduced, with the agreement expiring in March 2029.

Sahacogen Green Company Limited, an indirect subsidiary, entered into an agreement with Thai President Foods Public Company Limited to sell steam in a specified quantity and at a stipulated price as defined in the agreement. The agreement is for a period of 10 years, starting from April 2011, and will renew every year until termination.

Sahacogen (Chonburi) Public Company Limited, a direct subsidiary, entered into agreements with Saha Pathana Inter-Holding Public Company Limited to sell electricity and steam in a specified quantity and at a stipulated price as defined in the agreements. The agreement is for a period of 15 years, starting from April 1999, and renewed for an additional period of 25 years. In May 2019, the subsidiary entered into an amendment of the agreement to sell electricity and steam with Saha Pathana Inter-Holding Public Company Limited, which extended the agreement to sell electricity and steam for an additional period of 37 years after April 2014.

Maintenance and repair gas turbine engines Agreement

Sahacogen (Chonburi) Public Company Limited, a direct subsidiary, entered into a long-term service agreement with an overseas company for the maintenance and repair the gas turbine engines, whereby the service charges are as stipulated in the agreement. The agreement terminates on 31 December 2023.

Service agreement related to delivery of electricity generated from solar power

Sahacogen (Chonburi) Public Company Limited, a direct subsidiary, entered into a service agreement to deliver electricity generated from solar power with Saha Pathana Inter-Holding Public Company Limited, whereby the subsidiary is to deliver electricity generated from solar energy to the electricity delivery points. The agreement is for a period of 17 years, starting from March 2020, and can be renewed annually until termination.

Biomass Fuel Purchase Agreement

Sahagreen Forest Company Limited, an indirect subsidiary, entered into a biomass fuel purchase agreement with Siam Forestry Company Limited to purchase specified quantities at stipulated prices defined in the agreement. The agreement is effective from 21 August 2010 until termination.

Operation and Maintenance Agreement

Sahacogen (Chonburi) Public Company Limited, a direct subsidiary, entered into an agreement with Operational Energy Group Limited will provide management and assistance services for the operation and maintenance of the power plant, which the subsidiary is committed to pay for at prices as determined in the agreement. The agreement will be expired on 31 December 2023.

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Electricity sales from rooftop solar cell Agreement

On 30 August 2022, Sahacogen Green Company Limited, an indirect subsidiary, entered into agreements with Principal Healthcare Group to sell electricity from solar cell in a specified quantity and at a stipulated price as defined in the agreements. The agreement is for a period of 25 years starting from the power purchase date.

Letters of guarantee

As at 31 December 2022, the Group and its subsidiaries had commitments from letters of guarantee issued by financial institutions for the Group and its subsidiaries to comply with certain conditions in agreements in the amount of Baht 1,020.45 million, US Dollars 0.30 million and Australian Dollars 0.25 million. (2021: Baht 1,479.35 million, US Dollars 10.41 million and Australian Dollars 4.72 million)

Standby Letters of Credit

As at 31 December 2022, the Group and its subsidiaries had commitments from Standby Letters of Credit issued by financial institutions for Debt Service Reserve Guarantees and equity contributions in joint ventures in the amount of Baht 1,600 million, US Dollars 28.09 million and Japanese Yen 5.00 million. (2021: Baht 1,600 million, US Dollars 24.50 million and Japanese Yen 17.85 million)

Unused of credit facilities

As at 31 December 2022, the Group and its subsidiaries had unused of credit facilities totalling Baht 5,783.53 million and US Dollars 1,297.91 million. (2021: Baht 4,828.05 million and US Dollars 1,302.87 million)

Capital commitment

As at 31 December 2022, RATCH Cogeneration Company Limited, a direct subsidiary, had outstanding capital commitments under supervisory control and data acquisition (SCADA) agreement amounting to Baht 5.00 million.

As at 31 December 2022, Sahacogen (Chonburi) Public Company Limited, a direct subsidiary, had outstanding capital commitments under the acquisition of equipment and maintenance cogeneration power plant and the acquisition of solar rooftop equipment amounting to Baht 779.28 million, US Dollars 13.55 million and Swedish Krona 34.14 million. (2021: Baht 764.55 million, US Dollars 27.90 million and Swedish Krona 153.61 million)

Pledge of share certificate agreements

The Company has pledged all share certificates of RATCH Cogeneration Company Limited, a direct subsidiary, as collateral for loans to the lender of the subsidiary.

The Company has pledged all share certificates of First Korat Wind Company Limited and K.R. TWO Company Limited, direct associates, as collateral for loans to the lender of those associates.

The Group has pledged all share certificates of Xe-Pian Xe-Namnoy Power Company Limited, Ratchaburi World Cogeneration Company Limited and Hongsa Power Company Limited, joint ventures, as collateral for loans to the lender of those joint ventures.

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Fareast Renewable Development Pte. Ltd., an indirect subsidiary, has pledged partial share certificates of PT Bajradaya Sentranusa, a subsidiary of the subsidiary, as collateral for loans to the lender of PT Bajradaya Sentranusa.

The Company has pledged all share certificates of Northern Bangkok Monorail Company Limited and Eastern Bangkok Monorail Company Limited, direct associates, as collateral for loans to the lender of those companies.

NEXIF RATCH ENERGY SINGAPORE PTE. LTD., an indirect subsidiary, has pledged all share certificates of Nexif Ratch Energy Rayong Company Limited, a subsidiary of the subsidiary, as collateral for loans to the lender of Nexif Ratch Energy Rayong Company Limited.

The Company has pledged all share certificates of Hin Kong Power Company Limited, a direct joint venture, as collateral for loans to the lender of the joint venture.

Significant litigation

In 2014, a plaintiff filed a lawsuit against the Company based on the allegations that the Company had breached the joint development agreement for bidding of the Power Plant Project. The plaintiff demanded the Company to pay for the damage caused. The management of the Company is confident that all of the Company's action have not been in accordance with the allegations of the plaintiff and has much more confidence in strong defences. Therefore, the Company did not recognise a contingent liability in respect of this case. On 25 October 2018, the Court of First Instance issued a judgement to dismiss the claim made by the plaintiff. On 10 June 2020, the Court of Appeals issued a judgement to dismiss the claim made by the plaintiff upheld the Court of First Instance. Subsequently on 2 August 2022, the Supreme Court issued a judgement to dismiss the claim made by the plaintiff upheld the Court of Appeals. The case is finished.

In 2019, the Company was the defendant in a civil case where the plaintiff requested the Company to pay Baht 5,271.10 million for compensation. The plaintiff claimed that the Company infringement of their trade secrets by used and made the profitability from their trade secrets information without their consent. The action reportedly caused damage to the plaintiff and preventing them from receiving lost the right, income or benefits from their trade secrets information. On 30 September 2020, the Central Intellectual Property and International Trade Court issued a judgement to dismiss the claim since the trade secrets information claimed by the plaintiff has ceased. The plaintiff appealed the judgment to the Court of Appeal for Specialized Cases. Subsequently on 12 July 2022, the Court of Appeal for Specialized Cases issued a judgement to dismiss the claim made by the plaintiff upheld the Central Intellectual Property and International Trade Court. Therefore, the Company did not recognise a contingent liability in respect of this case.

29 Events after the reporting period

Progress on the Purchase of Agreement in respect of Investment in Thermal Power Plant in the Republic of Indonesia

At the Extraordinary Meeting of the Shareholders of the Company held on 21 October 2021, the shareholders approved RH International (Singapore) Corporation Pte. Ltd. ("RHIS"), an indirect subsidiary, to enter into transaction of purchase of ordinary shares of PT Paton Energy and Minejasa Capital B.V. of 45.52% and purchase of ordinary shares of IPM Asia Pte. Ltd. of 65% and approved the Company and/or RHIS to allocate the proportion of investment at the share transferring date in accordance with the condition of the share purchase agreement.

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On 15 February 2023, RHIS has reached an arrangement. RHIS will be acquiring 36.26% of PT Paiton Energy and in Minejesa Capital B.V. and will be acquiring 65% in IPM Asia Pte. Ltd. This arrangement is in line with the Company's commercial objectives and this investment will likely deliver consistent returns to the Company. It is also a part of process to complete conditions precedent of the Sale and Purchase Agreement.

Dividend approval for the year 2022

At the Board of Directors meeting of the Company held on 28 February 2023, the Board approved to submit for approval at the annual general meeting of the shareholders of the Company, the appropriation of 2022 annual dividend at the rate of Baht 1.60 per share, totalling Baht 3,480 million, from the profit from operations for the year 2022 after deducting the interim dividend of Baht 0.80 per share, totalling Baht 1,740 million. The balance of dividend amounting to Baht 1,740 million is subject to the approval of the shareholders at the annual general meeting on 24 April 2023.