THAI SOLAR ENERGY PUBLIC COMPANY LIMITED CONSOLIDATED AND SEPARATE FINANCIAL STATEMENTS 31 DECEMBER 2022

Independent Auditor's Report

To the Shareholders and the Board of Directors of Thai Solar Energy Public Company Limited

My opinion

In my opinion, the consolidated financial statements and the separate financial statements present fairly, in all material respects, the consolidated financial position of Thai Solar Energy Public Company Limited (the Company) and its subsidiaries (the Group) and the separate financial position of the Company as at 31 December 2022, and its consolidated and separate financial performance and its consolidated and separate cash flows for the year then ended in accordance with Thai Financial Reporting Standards (TFRS).

What I have audited

The consolidated financial statements and the separate financial statements comprise:

- the consolidated and separate statements of financial position as at 31 December 2022;
- the consolidated and separate statements of comprehensive income for the year then ended;
- the consolidated and separate statements of changes in equity for the year then ended;
- the consolidated and separate statements of cash flows for the year then ended; and
- the notes to the consolidated and separate financial statements, which include significant accounting policies and other explanatory information.

Basis for opinion

I conducted my audit in accordance with Thai Standards on Auditing (TSAs). My responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the consolidated and separate financial statements section of my report. I am independent of the Group and the Company in accordance with the Code of Ethics for Professional Accountants including Independence Standards issued by the Federation of Accounting Professions (TFAC Code) that are relevant to my audit of the consolidated and separate financial statements, and I have fulfilled my other ethical responsibilities in accordance with the TFAC Code. 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. I determined one key audit matter: Acquisition of investment in Soilcrete Technology Company Limited. The matter was 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 the matter.

Key audit matter

How my audit addressed the key audit matter

Acquisition of investment in Soilcrete Technology Company Limited

Refer to note 7 to the 'Critical accounting estimates and judgements' and note 15 'Investment in subsidiaries'.

On 7 July 2022, the Group acquired investments in Soilcrete Technology Company Limited which engages in ground-mounting solar power plants, for a consideration of Baht 527.61 million, representing 100% of its equity. The Group's management assessed that the acquisition of the investment qualified as a business combination by applying the definition in TFRS 3 - Business Combinations.

The management engaged an independent valuer to prepare the purchase price allocation to evaluate fair value of net assets acquired.

I focused on this area because the amount of this transaction are significant. In addition, the valuation method was complex and involved management's judgement on input and assumptions in the valuation model as well as discount rates applied.

My key procedures included the following:

- I assessed the management's consideration whether the investment should be accounted for as a business combination under TFRS 3.
- I assessed the appropriateness of the identifiable assets acquired and the liabilities assumed at the acquisition date. I also evaluated the valuer's competency, independence and objectivity.
- In testing the fair valuation method, I engaged an auditor expert to review the appropriateness and reasonableness of the methodology used in the valuation, the estimation of the discount rate and discount factor, and the model's logic and calculations, comparing with market practice in a comparable industry.
- I evaluated the reasonableness of key assumptions applied in purchase price allocation by comparing with relative contracts, historical data and market data in the comparable industry.
- I tested mathematical on goodwill arises during business combinations which is a difference between the amount of consideration paid from acquirer to acquiree and net identifiable assets acquired.
- I evaluated the appropriateness of the accounting records and adequacy of the disclosure made to the financial statements.

From the above procedures performed, I found that the acquisition of investments was a business combination in accordance with TFRS 3 and the assumptions applied in purchase price allocation were reasonable. I did not note any significant issue.

Other information

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

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

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

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

Responsibilities of the directors for the consolidated and separate financial statements

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

In preparing the consolidated and separate financial statements, the directors are responsible for assessing the Group's 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 the directors either intend to liquidate the Group and the Company or to cease operations, or has no realistic alternative but to do so.

The audit committee assists the directors in discharging their responsibilities for overseeing the Group'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 scepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the consolidated and separate financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit
 procedures that are appropriate in the circumstances, but not for the purpose of expressing an
 opinion on the effectiveness of the Group's and the Company's internal control.

- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the directors.
- Conclude on the appropriateness of the directors' use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's 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 the audit committee regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

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

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

PricewaterhouseCoopers ABAS Ltd.

Nuntika Limviriyalers Certified Public Accountant (Thailand) No. 7358 Bangkok 23 February 2023

		Consolidated		Separate		
		financial s	statements	financial s	tatements	
		2022	2021	2022	2021	
	Notes	Baht	Baht	Baht	Baht	
Assets						
Current assets						
Cash and cash equivalents	9	360,642,982	849,068,198	131,134,688	79,388,743	
Short-term restricted bank deposits	10	6,217,761	9,124,751	6,217,761	9,124,751	
Financial assets measured at amortised cost	11.1	468,168	467,589	468,168	467,589	
Financial assets measured at fair value						
through profit or loss	11.2	2,007,126	-	-	-	
Trade and other receivables	12	400,797,218	371,513,189	317,779,151	327,699,310	
Current portion of long-term loans to subsidiaries	36.3	-	-	76,690,000	78,520,000	
Inventories		31,189,727	26,301,577	-	-	
Refundable Value Added Tax		38,220,850	71,076,712	-	-	
Undue input Value Added Tax		652,434,399	419,219,001	505,971	288,825	
Other current assets	13	266,708,013	3,153,152	126,786,798	2,884,447	
Total current assets		1,758,686,244	1,749,924,169	659,582,537	498,373,665	
Non-current assets						
Long-term restricted bank deposits	10	51,350,686	46,236,784	1,050,000	1,050,000	
Long-term loans to subsidiaries	36.3	-	-	5,829,244,977	5,830,077,641	
Receivables from disposal of investments	36.2	-	-	404,409,990	1,383,683,149	
Investments in subsidiaries	15	-	-	2,339,149,897	1,199,149,897	
Investments in joint ventures	14	2,095,059,465	2,049,707,165	350,000,130	350,000,130	
Investment properties	16	100,968,511	101,930,512	89,977,885	89,977,885	
Property, plant and equipment	17	11,362,224,564	10,463,170,193	83,176,530	89,744,639	
Right-of-use assets	18	180,708,339	302,291,711	15,234,184	22,597,270	
Goodwill	19	96,670,636	48,539,794	-	-	
Intangible assets	20	4,795,600,613	4,885,480,446	1,726,640	3,356,774	
Deferred tax assets	21	22,025,026	22,021,077	-	-	
Other non-current assets		46,745,295	37,614,540	27,766,392	19,812,429	
Total non-current assets		18,751,353,135	17,956,992,222	9,141,736,625	8,989,449,814	
Total assets		20,510,039,379	19,706,916,391	9,801,319,162	9,487,823,479	

Director	Director

As at 31 December 2022

		Consolidated		Sepa	ırate
		financial s	tatements	financial s	tatements
		2022	2021	2022	2021
	Notes	Baht	Baht	Baht	Baht
Liabilities and equity					
Current liabilities					
Short-term borrowings from financial institutions	23.1	824,800,000	230,000,000	824,800,000	230,000,000
Trade and other payables	22	170,203,405	152,265,624	54,698,526	45,074,890
Current portion of right in power purchase					
agreement payables		889,771	842,823	-	-
Current portion of lease liabilities	23.2	16,203,277	29,091,881	3,365,064	7,989,350
Current portion of long-term borrowings	23.3	498,840,729	600,855,831	292,704,365	331,320,868
Current portion of debentures	23.5	1,099,290,378	2,348,497,958	1,099,290,378	2,348,497,958
Income tax payable		6,408,450	5,536,865	-	-
Other current liabilities		34,570,763	38,948,970	11,505,268	12,704,537
Total current liabilities		2,651,206,773	3,406,039,952	2,286,363,601	2,975,587,603
Non-current liabilities					
Right in power purchase agreement payables		24,043,956	24,933,727	-	-
Lease liabilities	23.2	192,211,291	288,316,598	2,066,470	4,861,779
Long-term borrowings from financial institutions	23.3	8,753,066,696	8,393,802,259	1,747,228,671	1,854,568,747
Debentures	23.5	2,334,960,631	1,098,310,884	2,334,960,631	1,098,310,884
Derivative liabilities	24	-	50,463,036	-	-
Employee benefit obligations	25	20,519,070	21,559,034	20,519,070	21,559,034
Provision for decommissioning costs		5,951,786	31,114,679	2,793,266	2,721,982
Deferred tax liabilities	21	85,273,462	42,924,412	5,111,357	3,557,083
Other non-current liabilities		72,000	72,000	72,000	72,000
Total non-current liabilities		11,416,098,892	9,951,496,629	4,112,751,465	2,985,651,509
Total liabilities		14,067,305,665	13,357,536,581	6,399,115,066	5,961,239,112

		Consolidated		Separate		
		financial s	statements	financial s	tatements	
		2022	2021	2022	2021	
	Notes	Baht	Baht	Baht	Baht	
Liabilities and equity (Cont'd)						
Equity						
Share capital	26					
Authorised share capital						
Ordinary shares 2,477,474,454 shares						
of par Baht 1 each		2,477,474,454	2,477,474,454	2,477,474,454	2,477,474,454	
Issued and paid-up share capital						
Ordinary shares 2,117,716,281 shares						
of fully-paid		2,117,716,281	2,117,716,281	2,117,716,281	2,117,716,281	
Premium on ordinary shares		1,045,504,325	1,045,504,325	1,045,504,325	1,045,504,325	
Retained earnings						
Appropriated-legal reserve	27	150,677,758	130,022,093	91,877,074	91,877,074	
Unappropriated		3,883,347,624	3,250,080,099	147,106,416	271,486,687	
Other components of equity		(754,512,274)	(193,942,988)	-		
		0.440.700.744	0.040.070.040	0.400.004.000	0.500.504.007	
Equity attributable to owners of the parent		6,442,733,714	6,349,379,810	3,402,204,096	3,526,584,367	
Non-controlling interests		-		-		
Total equity		6,442,733,714	6,349,379,810	3,402,204,096	3,526,584,367	
Total liabilities and equity		20,510,039,379	19,706,916,391	9,801,319,162	9,487,823,479	

		Consolidated		Separate		
		financial s	statements	financial s	tatements	
		2022	2021	2022	2021	
	Notes	Baht	Baht	Baht	Baht	
Revenue from sales and service		1,091,835,690	1,308,508,946	-	-	
Subsidy for adders		167,499,061	166,241,916	-	-	
Management service fee income		55,258,432	49,327,078	153,886,742	194,993,395	
Total revenue		1,314,593,183	1,524,077,940	153,886,742	194,993,395	
Cost of sales and services		(892,943,426)	(1,075,242,834)	(130,001,347)	(111,285,345)	
On an analyti		404 040 757	440.005.400	00 005 005	00 700 050	
Gross profit		421,649,757	448,835,106	23,885,395	83,708,050	
Dividends income	20	35	58	682,299,863	597,387,947	
Other rains (lesses)	28 29	11,778,925	9,871,559	11,515,808	15,040,495	
Other gains (losses)	29	213,017,371	87,087,217	(363,920,651)	(8,467,729)	
Administrative expenses Finance costs	31	(227,091,309)	(348,776,071)	(131,267,253)	(262,525,052)	
		(327,958,128)	(338,316,401)	(273,661,676)	(246,979,275)	
Share of profit from investment in joint ventures	14	647,702,369	642,919,195	-		
Profit (loss) before income tax		739,099,020	501,620,663	(51,148,514)	178,164,436	
Income tax	32	(15,326,672)	(8,635,487)	(1,554,275)	1,131,472	
Profit (loss) for the year		723,772,348	492,985,176	(52,702,789)	179,295,908	
Other comprehensive income for the year: Item that will not be reclassified to profit or loss:						
Remeasurements of post - employment						
benefit obligation		2,442,589		2,442,589		
Items that will be reclassified		2,442,569	-	2,442,569	-	
subsequently to profit or loss: Currency translation differences		(606,703,965)	14,285,513			
Change in fair value of hedge derivatives		(606,703,963)	8,009,244	-	-	
Total comprehensive income for the year		119,510,972	515,279,933	(50,260,200)	179,295,908	
Profit attributable to:						
Owners of the parent		723,772,348	492,705,987	(52,702,789)	179,295,908	
Non-controlling interests		-	279,189	-	-	
		723,772,348	492,985,176	(52,702,789)	179,295,908	
Total comprehensive income attributable to:						
Owners of the parent		119,510,972	514,958,378	(50,260,200)	179,295,908	
Non-controlling interests		-	321,555	-	-	
<u> </u>		119,510,972		(50,260,200)	179,295,908	
		113,310,312	515,279,933	(50,200,200)	113,233,300	
Earnings (loss) per share	33					
Basic earnings (loss) per share		0.34	0.23	(0.02)	0.08	
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Consolidated financial statements

		Attribute to owners of the parent									
				Retained	l earnings	Other components of equity		_			
		Issued and			_	Changes in parent's		Fair value			
		called-up	Premium on	Appropriated -		ownership interest	Translation of	of hedge	Total owners	Non-controlling	
		share capital	ordinary capital	legal reserve	Unappropriated	in subsidiary	financial statements	derivatives	of the parent	interests	Total
	Notes	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht
Opening balance at 1 January 2021		2,117,716,281	1,045,504,325	106,757,899	2,865,346,957	(18,292,375)	(143,759,081)	(55,972,247)	5,917,301,759	2,031,046	5,919,332,805
Change in equity for the year											
Additional investment in subsidiary by purchasing											
shares from non-controlling interests		-	-	-	-	1,828,324	-	-	1,828,324	(2,352,601)	(524,277)
Appropriation of legal reserve	27	-	-	23,264,194	(23,264,194)	-	-	-	-	-	-
Cash dividends	35	-	-	-	(84,708,651)	-	-	-	(84,708,651)	-	(84,708,651)
Total comprehensive income for the year					492,705,987	-	14,243,147	8,009,244	514,958,378	321,555	515,279,933
Closing balance at 31 December 2021		2,117,716,281	1,045,504,325	130,022,093	3,250,080,099	(16,464,051)	(129,515,934)	(47,963,003)	6,349,379,810		6,349,379,810
Opening balance at 1 January 2022		2,117,716,281	1,045,504,325	130,022,093	3,250,080,099	(16,464,051)	(129,515,934)	(47,963,003)	6,349,379,810	-	6,349,379,810
Change in equity for the year											
Disposal of subsidiary		-	-	-	1,828,324	(1,828,324)	-	47,963,003	47,963,003	-	47,963,003
Appropriation of legal reserve	27	-	-	20,655,665	(20,655,665)	-	-	-	-	-	-
Cash dividends	35	-	-	-	(74,120,071)	-	-	-	(74,120,071)	-	(74,120,071)
Total comprehensive income for the year		-	-	-	726,214,937	-	(606,703,965)	-	119,510,972	-	119,510,972
Closing balance at 31 December 2022		2,117,716,281	1,045,504,325	150,677,758	3,883,347,624	(18,292,375)	(736,219,899)	-	6,442,733,714	-	6,442,733,714

Separate financial statements

		Retained earr			earnings	
	Notes	Issued and paid-up share capital Baht	Premium on ordinary share capital	Appropriated - legal reserve Baht	Unappropriated Baht	Total Baht
Opening balance at 1 January 2021		2,117,716,281	1,045,504,325	80,090,954	188,685,550	3,431,997,110
Change in equity for the year						
Appropriation of legal reserve	27	-	-	11,786,120	(11,786,120)	-
Cash dividends	35	-	-	-	(84,708,651)	(84,708,651)
Total comprehensive income for the year					179,295,908	179,295,908
Closing balance at 31 December 2021		2,117,716,281	1,045,504,325	91,877,074	271,486,687	3,526,584,367
Opening balance at 1 January 2022		2,117,716,281	1,045,504,325	91,877,074	271,486,687	3,526,584,367
Change in equity for the year						
Appropriation of legal reserve	35	_	_	_	(74,120,071)	(74,120,071)
Total comprehensive income for the year		-	-	-	(50,260,200)	(50,260,200)
Closing balance at 31 December 2022		2,117,716,281	1,045,504,325	91,877,074	147,106,416	3,402,204,096

		Consoli	idated	Sepai	ate	
		financial st	atements	financial statements		
	_	2022	2021	2022	2021	
	Notes	Baht	Baht	Baht	Baht	
Cash flows from operating activities						
Profit before income tax		739,099,020	501,620,663	(51,148,514)	178,164,436	
Adjustments for:		,,-	,,,,,,,,	(- , -,- ,	-, - ,	
Depreciation	30	265,614,761	370,438,422	15,438,533	15,935,584	
Amortisation	30	69,701,835	60,124,835	1,941,454	2,006,997	
Expected credit loss		<u>-</u>	7,605,020	-	7,605,020	
Share of profit from investments in joint ventures	14	(647,702,369)	(642,919,195)	_	-	
Provision for long-term employee benefits obligati		7,094,792	4,304,857	7,094,792	4,304,857	
Unrealised (gain) loss on exchange		(100,708,106)	11,174,854	356,596,891	67,718,928	
Gain from measurement on financial assets	11	(7,126)	-	-	-	
Loss from impairment of assets	30	-	154,562,421	_	154,562,421	
Write-off equipment	30	476,889	4,598,100	_	-	
Gain on loan restructuring	29	-	(60,451,325)	_	(60,451,325)	
Gain from disposal of subsidiaries	29	(234,436,964)	(104,410,828)	_	- · · · · · · · · · · · · · · · · · · ·	
Write-off withholding tax		66,781	198,854	418	_	
Dividends income		(35)	(58)	(682,299,863)	(597,387,947)	
Interest income	28	(543,577)	(442,201)	(8,113,407)	(13,855,736)	
Finance cost	31	327,958,128	338,316,401	273,661,676	246,979,275	
Loss on impairment of goodwill	19	3,681,768	2,315,248	-	-	
		430,295,797	647,036,068	(86,828,020)	5,582,510	
Changes in operating assets and liabilities						
Trade and other receivables		(70,958,204)	24,021,529	21,917,902	(99,082,914)	
Inventories		(4,888,150)	(3,496,851)	-	-	
Value added tax refundable		32,855,862	34,039,947	-	-	
Undue input Value Added Tax		(233,215,398)	(148,700,538)	(217,146)	313,685	
Other current assets		(260,302,398)	1,858,212	(121,212,411)	(2)	
Other non-current assets		(9,051,171)	1,953,396	(7,968,747)	(33,660)	
Trade and other payables		(12,826,217)	3,008,661	9,850,564	1,486,461	
Other current liabilities		(6,707,597)	(28,629,952)	(1,199,269)	6,850,942	
Employee benefit payments	25	(5,692,167)	(117,079)	(5,692,167)	(117,079)	
Cash flows from (used in) operating activities		(140,489,643)	530,973,393	(191,349,294)	(85,000,057)	
Add Income tax received		3,724,000	-	2,693,405	(00,000,001)	
Less Income tax paid		(20,061,928)	(11,443,985)	(5,383,764)	(3,380,368)	
moonto tax paid	-	(20,001,020)	(11,770,000)	(0,000,104)	(0,000,000)	
Cash flows from (used in) operating activities		(156,827,571)	519,529,408	(194,039,653)	(88,380,425)	

		Consolidated		Separate		
		financial s	tatements	financial statements		
		2022	2021	2022	2021	
	Notes	Baht	Baht	Baht	Baht	
Cash flows from investing activities						
Acquisition of subsidiaries, net of cash acquired		(493,385,871)	-	(1,140,000,000)	-	
Proceeds from disposal of subsidiaries		530,868,640	351,185,241	979,273,159	-	
(Increase) decrease in restricted bank deposits		(2,206,912)	(2,157,852)	2,906,990	1,221,665	
Acquisition of financial assets measured at						
fair value through profit or loss	11	(2,000,000)	-	-	-	
Long-term loans made to subsidiaries	36.3	-	-	(734,178,055)	(200,597,300)	
Repayment received from long-term loan						
to subsidiaries	36.3	-	-	385,161,395	508,208,010	
Purchase of property, plant and equipment		(2,932,824,819)	(1,669,233,840)	(858,731)	(259,073)	
Payment for borrowing cost of property,						
plant and equipment		(69,006,449)	(99,128,154)	-	-	
Purchase of intangible assets	20	(2,110,720)	(848,476)	(311,320)	(243,640)	
Interest received		532,922	446,414	13,256,801	10,531,059	
Dividends received		660,249,824	549,787,997	660,249,859	549,787,939	
Net cash (used in) generated from						
investing activities		(2,309,883,385)	(869,948,670)	165,500,098	868,648,660	
3		(,= = = ,= = = ,	(===,===,===,			
Cash flows from financing activities						
Proceeds from short-term borrowings from						
financial institutions, net of financial service fee	23.1	3,206,800,000	60,000,000	3,206,800,000	60,000,000	
Repayment to short-term borrowings from						
financial institutions	23.1	(2,612,000,000)	(80,000,000)	(2,612,000,000)	(80,000,000)	
Repayment to lease liabilities	23.2	(35,715,359)	(43,236,031)	(8,449,889)	(9,049,409)	
Proceeds from long-term borrowings	23.3	2,448,883,398	1,557,491,210	190,000,000	-	
Financial service fee from long-term borrowings	23.3	(950,000)	(4,539,901)	(950,000)	(4,539,901)	
Repayment to long-term borrowings						
from financial institutions	23.3	(542,062,017)	(652,363,726)	(336,732,017)	(360,771,656)	
Proceeds from issuance of debentures, net						
debt issuance cost	23.5	2,333,550,000	-	2,333,550,000	-	
Redemption of debentures	23.5	(2,350,000,000)	-	(2,350,000,000)	-	
Repayment from short-term borrowings		,		, , ,		
from others		(117,550,747)		-		
Purchase shares in subsidiary from		, , ,				
non-controlling interests		_	(524,277)	-	-	
Cash dividends	35	(74,120,071)	(190,593,465)	(74,120,071)	(190,593,465)	
Interest paid	55	(295,898,839)	(328,512,808)	(267,818,015)	(240,957,391)	
p		(==0,000,000)	(0,0.2,000)	(==:,0:0,0:0)	(= :2,00:,001)	
Net cash generated from (used in) financing activit	ies	1,960,936,365	317,721,002	80,280,008	(825,911,822)	

	Consolidated		Sepa	rate
	financial s	statements	financial st	atements
	2022	2021	2022	2021
	Baht	Baht	Baht	Baht
Not (docrosso) increase in				
Net (decrease) increase in	(505.774.504)	(00.000.000)	54 740 450	(45.040.507)
cash and cash equivalents	(505,774,591)	(32,698,260)	51,740,453	(45,643,587)
Cash and cash equivalents at beginning of the year	849,068,198	883,246,238	79,388,743	124,974,583
Effect of exchange differences on				
cash and cash equivalents	5,492	(46,655)	5,492	57,747
Effect of exchange differences on translation				
of financial statements	17,343,883	(1,433,125)	-	<u>-</u>
Cash and cash equivalents at end of the year	360,642,982	849,068,198	131,134,688	79,388,743
Non-cash transactions				
Significant non-cash transactions are as follows:				
Payable arising from construction				
and purchase of equipment	407,500	1,145,800	-	-
Capitalise borrowing cost to property,				
plant and equipment	18,375,872	18,499,575	-	-

1 General information

Thai Solar Energy Public Company Limited ("the Company") is a Public Company Limited which is incorporated and domiciled in Thailand. The Company is listed on the Stock Exchange of Thailand. Its parent company is P.M. Energy Company Limited (incorporated in Thailand) ("Parent Company"). The address of the Company's registered office is as follows:

725 S-Metro Building, 19th Floor, Sukhumvit Rd., Klongton Nua, Wattana, Bangkok.

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

The principal business operations of the Group are generation and distribution of electricity from solar power and biomass to government and private sector.

These consolidated and separate financial statements have been approved for issue by the Board of Directors on 23 February 2023.

Financial position

As of 31 December 2022, The Group and the Company have the total current liabilities exceeding total current assets. Management has prepared a cash flow forecast and confident that the estimation can be achieved. In addition, the Group has enough undrawn credit facilities available and plan to roll over the debentures to use in its operation. Accordingly, the Group could continue its operations as a going concern, and to fulfil all its financial obligations now and in the future.

2 Basis of preparation

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

The consolidated and separate financial statements have been prepared under the historical cost convention except certain financial assets and liabilities (including derivative instrument) as disclosed in accounting policy.

The preparation of financial statements in conformity with TFRS requires management to use certain critical accounting estimates and to exercise its judgement in applying the Group's accounting policies. The areas involving a higher degree of judgement or complexity, or areas that are more likely to be materially adjusted due to changes in estimates and assumptions are disclosed in Note 7.

An English version of the consolidated and separate financial statements have been prepared from the statutory financial statements that are in the Thai language. In the event of a conflict or a difference in interpretation between the two languages, the Thai language statutory financial statements shall prevail.

3 New and amended financial reporting standards

3.1 New and amended financial reporting standards that are effective for accounting period beginning on or after 1 January 2022 and relevant to the Group

The Group's management has assessed that the new and amended financial reporting standard does not have impact to the Group.

3.2 Amended financial reporting standards that are effective for accounting period beginning or after 1 January 2023 and relevant to the Group

- Amendment to TAS 16 Property, plant and equipment clarified to prohibit entities from deducting from the cost of an item of PP&E any proceeds received from selling any items produced while the entity is preparing that asset for its intended use.
- b) Amendment to TAS 37 Provisions, contingent liabilities and contingent assets clarified that, in considering whether a contract is onerous, the direct costs of fulfilling a contract include both the incremental costs of fulfilling the contract and an allocation of other costs directly related to fulfilling the contract. Before recognising a separate provision for an onerous contract, the entity must recognise any impairment losses that have occurred on the assets used in fulfilling the contract.
- c) Amendment to TFRS 3 Business combinations clarified some minor amendments to update its references to the Conceptual Framework for Financial Reporting and added a consideration for the recognition of liabilities and contingent liabilities acquired from business combinations. The amendments also confirmed that contingent assets shouldn't be recognised at the acquisition date.
- d) Amendment to TFRS 9 Financial Instruments clarified which fees should be included in the 10% test for the derecognition of financial liabilities. It should only include fees between the borrower and lender.

The Group have not early adopted the amended financial reporting standards before effective date. The Group's management is currently assessing the impact of initial adoption of these standards.

4 Accounting policies

4.1 Principles of consolidation and equity accounting

a) Subsidiaries

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

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

b) Joint arrangements

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

Joint venture

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

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

List of joint venture is disclosed in Note 14.

c) Equity method

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

The Group's subsequently recognises shares of its joint venture's profits or losses and other comprehensive income in the profit or loss and other comprehensive income, respectively. The subsequent cumulative movements are adjusted against the carrying amount of the investment.

When the Group's share of losses in associates and joint venture equals or exceeds its interest joint venture, the Group does not recognise further losses, unless it has incurred obligations or made payments on behalf of the joint venture.

d) Changes in ownership interests

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

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

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

e) Intercompany transactions on consolidation

Intra-group transactions, balances and unrealised gains on transactions are eliminated. Unrealised gains on transactions between the Group and its associates and joint venture are eliminated to the extent of the Group's interest in the associates and joint venture. Unrealised losses are also eliminated in the same manner unless the transaction provides evidence of an impairment of the asset transferred.

4.2 Business combination

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

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

Identifiable assets and liabilities acquired and contingent liabilities assumed in a business combination are measured initially at their fair values at the acquisition date.

On an acquisition-by-acquisition basis, the Group initially recognises any non-controlling interest in the acquiree either at fair value or at the non-controlling interest's proportionate share of the acquiree's net assets.

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

Acquisition-related cost

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

Changes in fair value of contingent consideration paid/received

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

4.3 Foreign currency translation

a) Functional and presentation currency

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

b) Transactions and balances

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

Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the profit or loss.

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

c) Group companies

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

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

4.4 Cash and cash equivalents

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

4.5 Restricted bank deposits

Restricted bank deposits mean all types of bank deposits that are under condition of withdrawal process for specific purpose according to financial agreement and loan facilities agreement with financial institution which provide credit to the Group.

4.6 Trade accounts receivable

Trade receivables are amounts due from customers for goods sold or services performed in the ordinary course of business. They are generally due for settlement within 60 days and therefore are all classified as current.

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

4.7 Inventories

Inventories are stated at the lower of cost or net realisable value.

Cost of inventories is determined by the weighted average method. Cost of raw materials comprise all purchase cost and costs directly attributable to the acquisition of the inventory less all attributable discounts, direct labour and other direct costs.

4.8 Financial assets

Investments and other financial assets

a) Classification

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

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

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

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

b) Recognition and derecognition

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

c) Measurement

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

Financial assets with embedded derivatives are considered in their entirety when determining whether the cash flows are solely payment of principal and interest (SPPI).

d) Debt instruments

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

- Amortised cost: Assets that are held for collection of contractual cash flows that represent solely payments of principal and interest (SPPI) are measured at amortised cost. Interest income is included in other income using the effective interest method. Any gain or loss on derecognition is presented in other gains/(losses), together with foreign exchange gains and losses. Impairment losses are presented as separate line item.
- FVOCI: Assets that are held for collection of contractual cash flows that represent SPPI and for selling the financial assets are measured at FVOCI. Movements in the carrying amount are taken through OCI, except impairment gains or losses, interest revenue and foreign exchange gains and losses which are recognised in profit or loss. Interest revenue is included in finance income. Foreign exchange gains and losses are presented in other gains/(losses). Impairment losses are presented as separate line item. When the financial asset is derecognised, the cumulative gain or loss previously recognised in OCI is reclassified to profit or loss in other gains/(losses).
- FVPL: Assets that do not meet the criteria for amortised cost or FVOCI are measured at FVPL.
 A gain or loss on subsequent measurement is presented in other gains/(losses).

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

e) Impairment

The Group assesses expected credit loss on a forward-looking basis for its financial assets carried at FVOCI and at amortised cost. The impairment methodology applied depends on whether there has been a significant increase in credit risk, except trade receivables, contract assets, and lease receivables which the Group applies the simplified approach in determining its expected credit loss.

For trade receivables, the Group applies the simplified approach, which requires expected lifetime losses to be recognised from initial recognition of the receivables.

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

4.9 Lease

Leases - where the Group is the lessee

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

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

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

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

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

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

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

4.10 Investment property

Investment properties of the Group are lands and condominium which are held for capital appreciation and are not occupied by the Group.

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

Subsequently, investment property is carried at cost less any accumulated depreciation and any accumulated impairment losses.

Land is not depreciated. Depreciation on condominium is calculated by using straight-line method over 20 years.

Subsequent expenditure is capitalised to the asset's carrying amount only when it is probable that future economic benefits associated with the expenditure will flow to the Group and the cost of the item can be measured reliably. All other repairs and maintenance costs are expensed when incurred. When part of an investment property is replaced, the carrying amount of the replaced part is derecognised.

4.11 Property, plant and equipment

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

Subsequent costs are included in the asset's carrying amount, only when it is probable that future economic benefits associated with the item will flow to the Group. capitalised where there is future economic benefits. The carrying amount of the replaced part is derecognised.

All other repairs and maintenance are charged to profit or loss when incurred.

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

Land improvement Power plants Office buildings Tools and equipment Office equipment Vehicles Number of years
15 years 4 months - 25 years
15 years 4 months - 25 years
25 years
5 - 10 years
3 - 5 years
5 years

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

Gains or losses on disposals are determined by comparing the proceeds with the carrying amount and are recognised in the statement of comprehensive income.

4.12 Goodwill

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

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

4.13 Intangible assets

4.13.1 Computer software

Acquired computer software is capitalised on the basis of the costs incurred to acquire and bring to use the specific software. These costs are amortised over their estimated useful life of 5 years.

4.13.2 Right in Power Purchase Agreement

Right in Power Purchasing Agreements ("PPAs") comprise of PPA for renewable energy (Biomass project) which the Group signed with Provincial Electricity Authority (PEA) and PPA for generating electricity from solar farm as specified in certification for power distribution granted by Ministry of Economy, Trade and Industry, Japan (METI Certificate). The Group acquired those PPAs from acquisition of subsidiaries. PPAs were amortised by using the straight-line method to allocate their cost to their residual values over their Power Purchase Agreement. Amortisation starts when the Group start their commercial operation.

4.13.3 Right in use of land

Land for the location of The Electricity Generating Authority of Thailand installed on the ground for government agencies and agricultural cooperatives that is a joint project between a subsidiary with a cooperative in Thailand. A subsidiary agreed to transfer the ownership in this plot of land to that cooperative by the end of the project. The Group remains the right to use such land over the agreement period. Right in use of land was amortised using straight-line method over the contractual period of 25 years.

4.14 Impairment assets

Assets that have an indefinite useful life are tested annually for impairment, or more frequently if events or changes in circumstances indicate that it might be impaired. Assets that are subject to amortisation are reviewed for impairment whenever there is an indication of impairment. An impairment loss is recognised for the amount by which the carrying amount of the assets exceeds its recoverable amount. The recoverable amount is the higher of an asset's fair value less costs of disposal and value in use.

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

4.15 Financial liabilities

a) Classification

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

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

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

b) Measurement

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

c) Derecognition and modification

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

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

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

4.16 Borrowing costs

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

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

4.17 Current and deferred income taxes

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

Current tax

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

Deferred income tax

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

- initial recognition of an asset or liability in a transaction other than a business combination that affects neither accounting nor taxable profit or loss is not recognised
- investments in subsidiaries, associates and joint arrangements where the timing of the reversal of the temporary difference is controlled by the Group and it is probable that the temporary difference will not reverse in the foreseeable future.

Deferred income tax is measured using tax rates of the period in which temporary difference is expected to be reversed, based on tax rates and laws that have been enacted or substantially enacted by the end of the reporting period.

Deferred tax assets are recognised only to the extent that it is probable that future taxable profit will be available against which the temporary differences can be utilised.

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

4.18 Employee benefits

4.18.1 Short-term employee benefits

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

4.18.2 Defined contribution plan

The Group operates a provident fund, being a defined contribution plan. The assets of which are held in a separate trustee - administered fund. The provident fund is funded by payments from employees and by the Company. Contributions to the provident fund are charged to the statement of comprehensive income in the period to which the contributions relate.

4.18.3 Defined benefit plans

A defined benefit plan is a retirement plan that is not a defined contribution plan. Typically defined benefit plans define an amount of retirement benefit that an employee will receive on retirement, usually dependent on one or more factors such as age, years of service and compensation. The liability recognised in the statement of financial position in respect of defined benefit retirement plans is the present value of the defined benefit obligation at the end of the reporting period less the fair value of plan assets. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows using market yield of government bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related retirement liability. Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to equity in other comprehensive income in the period in which they arise. They are included in retained earnings in the statements of changes in equity / presented as a separate item in statements of changes in equity.

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

4.18.4 Termination benefits

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

4.19 Provisions

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

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

4.20 Government grants

Grants from the government are recognised at their fair value where there is a reasonable assurance that the grant will be received and the Group will comply with attached conditions.

Government grants relating to the sales of electricity generated from solar power is recognised as profit or loss systematically throughout the period. Moreover, the Group recognised expenses related to cost which is compensated.

4.21 Share capital

Ordinary shares are classified as equity.

Incremental costs directly attributable to the issue of new shares or options (net of tax) are shown as a deduction in equity.

4.22 Revenue recognition

Revenue comprises the fair value of the consideration received or receivable for the sale of goods and service in the ordinary course of the Company's activities. Revenue including electricity tariff adders, net of fuel adjustment (Ft) and the Provincial Electricity Authority's operating charges, are the invoiced value, excluding valued added tax of electricity supplied, and after eliminating sales within the Group. Revenue from sales of goods is recognised when the collectability of goods provided is high probable. The Group recognised service contracts with a continuous service provision as revenue on a straight line basis over the contract term, regardless of the payment pattern.

Management service income is recognised when service is completed.

Interest income is recognised using the effective interest method.

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

4.23 Dividend distribution

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

4.24 Derivative and hedge accounting

Derivatives are initially recognised at fair value on the date a derivative contract is entered into and are subsequently remeasured to their fair value at the end of each reporting period. The Group designates certain derivatives as either hedges of a particular risk associated with the cash flows of i) recognised assets and liabilities and ii) highly probable forecast transactions (cash flow hedges).

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

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

Cash flow hedges that qualify for hedge accounting

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

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

Amounts accumulated in equity are reclassified in the periods when the hedged item affects profit or loss. The gain or loss relating to the effective portion of the interest rate swaps hedging variable rate borrowings is recognised in profit or loss within finance cost at the same time as the interest expense on the hedged borrowings.

When a hedging instrument expires, or is sold or terminated, or when a hedge no longer meets the criteria for hedge accounting, any cumulative deferred gain or loss and deferred costs of hedging in other components of equity at that time remains in equity until the forecast transaction occurs. When the forecast transaction is no longer expected to occur, the cumulative gain or loss and deferred costs of hedging that were reported in equity are immediately reclassified to profit or loss.

4.25 Segment reporting

Operating segment are reported in a manner consistent with the internal reporting provided to the chef operating decision-maker. The chief operating decision-maker, who is responsible for allocating resource and assessing performance of the operating segments, has been identified as the Chief Executive Officer and the Executive Committee that make strategic decision.

5.1 Financial risk factors

The Group exposes to a variety of financial risks: market risk (currency risk, fair value risk and price risk), credit risk and liquidity risk.

5.1.1 Market risk

Foreign exchange risk a)

The Group hires contractor for construction of power plants. Contractors are operating in overseas. The Group is exposed to foreign exchange risk arising from various currency exposures, primarily with respect to Singapore Dollar and Japanese Yen, in terms of foreign exchange risk arises from future commercial transactions, recognition of assets and liabilities and net investments in foreign operations. However, the Group does not hedge foreign exchange risk as investments and borrowings were made in the same currency with future cash inflow and cash outflow.

The domestic subsidiary has granted loans denominated in Japanese Yen to its subsidiaries which expose the Company to a foreign exchange risk.

Sensitivity

The Group is primarily exposed to changes in Baht and Japanese Yen and Baht and SG Dollar exchange rates. The sensitivity of profit or loss to changes in the exchange rates arises mainly from financial assets and financial liabilities denominated in Japanese Yen and SG Dollar.

		Separate financial statements					
	Impact to	net profit	Impact to component				
	2022 Baht	2021 Baht	2022 Baht	2021 Baht			
Baht to Japanese Yen exchange rate - increase 10%*	309.202.759	341.092.584	_	_			
Baht to Japanese Yen exchange rate - decrease 10%*	(309,202,759)	(341,092,584)	-	-			
Baht to SG Dollar exchange rate - increase 10%*	5,313,700	2,664,614	-	-			
Baht to SG Dollar exchange rate - decrease 10%* * Holding all other variables constant	(5,313,700)	(2,664,614)	-	-			

Holding all other variables constant

b) Cash flow and fair value interest rate risk

Interest rate risk of the Group occurs from credit facilities of commercial bank which is floating rate that cause the Company exposing to cash flow risk from interest rate. Generally, the Group enters into long-term borrowings at floating rates and swaps them into fixed rates that are lower than those available if the Group borrowed at fixed rates directly. The Group's borrowings at variable rate were mainly denominated in Thai Baht and Japanese Yen on 31 December 2022. The Group does not apply financial instruments to manage the risk.

Sensitivity

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

	Consolidated financial statements									
			Impact t	o other						
	Impact to I	net profit	component	s of equity						
	2022	2021	2022	2021						
	Baht	Baht	Baht	Baht						
Ī										
	(27,921,981)	(19,110,024)	-	(2,157,217)						
	27,921,981	19,110,024	-	2,157,217						

Interest rate - increase 10%*
Interest rate - decrease 10%*

Holding all other variables constant

S	eparate financia	al statements	•
		Impact to ot	her
Impact to n	et profit	components of	equity
2022	2021	2022	2021
Baht	Baht	Baht	Baht
(8,408,354)	(3,660,599)	-	-
8.408.354	3.660.599	_	_

Interest rate - increase 10%*
Interest rate - decrease 10%*

5.1.2 Credit risk

Credit risk arises from cash and cash equivalents and credit exposures from customers, including outstanding receivables.

a) Risk management

Credit risk is managed on a group basis. For banks and financial institutions, only independently rated parties with a minimum rating of 'A' are accepted.

If customers are independently rated, these ratings are used. Otherwise, if there is no independent rating, risk control assesses the credit quality of the customer, taking into account its financial position, past experience and other factors. Individual risk limits are set based on tjps assessments in accordance with limits set by the board. The compliance with credit limits by customers is regularly monitored by line management.

b) Impairment

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

- Trade and other receivables
- · Loan to related parties

While cash and cash equivalents are also subject to the impairment requirements of TFRS 9, the identified impairment loss was immaterial.

^{*} Holding all other variables constant

Trade receivables

The Group applies the TFRS 9 simplified approach to measure expected credit losses which uses a lifetime expected loss allowance for all trade receivables.

To measure the expected credit losses, trade receivables and contract assets have been grouped based on shared credit risk characteristics and the days past due. The contract assets relate to unbilled work in progress and have substantially the same risk characteristics as the trade receivables for the same types of contracts. The Group has therefore concluded that the expected loss rates for trade receivables are a reasonable approximation of the loss rates for the contract assets.

The expected loss rates are based on the payment profiles of sales before 31 December 2022 and the corresponding historical credit losses experienced within this period. The historical loss rates are adjusted to reflect current and forward-looking information on macroeconomic factors affecting the ability of the customers to settle the receivables.

Loans to related parties

Loans to related parties measured at amortised cost are considered to have low credit risk, and the loss allowance recognised during the year was therefore limited to 12 months expected losses. Lifetime expected credit losses is recognised for the loans that the credit risk is significant increased.

5.1.3 Liquidity risk

Prudent liquidity risk management implies maintaining sufficient cash and the availability of funding through an adequate amount of committed credit facilities to meet obligations when due and to close out market positions. At the end of the reporting period the Group held deposits at call of Baht 360.64 million (2021: Baht 849.07 million) that are expected to readily generate cash inflows for managing liquidity risk. Due to the dynamic nature of the underlying businesses, the Group Treasury maintains flexibility in funding by maintaining availability under committed credit lines.

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

a) Financing arrangements

The detail of undrawn facilities as at 31 December are disclosed in Note 23.

b) Maturity of financial liabilities

Trade payables and financial liabilities have maturity within 1 year. The maturity of the borrowing from financial institutes, lease liabilities and debentures are disclosed in Note 23.

5.2 Capital management

Risk management

The objectives when managing capital are to:

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

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

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

5.3 Major customer reliance risk

The Group relies on Provincial Electricity Authority (PEA) and Metropolitan Electricity Authority (MEA) who purchase of all electricity generated in specific quantities at specific price based on each specific period according to Power Purchase Agreements, in accordance with Ministry of Energy's policy to encourage production and usage of renewable energy. As a result, agreement termination may significantly impact the Group's operations.

5.4 Risk from generated electricity lower than estimation

The electricity volume generated from solar power plants might be affected by climate change and natural disaster, forming as a risk of production volume is lower than estimation. In consequence, it may impact to revenues and operating results of the Group as well as other electricity generators in this industry.

5.5 Debt settlement ability risk

According to credit facilities conditions with commercial bank, the Group has to comply with financial covenants stated in the agreement such as to maintain Debt-to-Equity ratio and maintain Debt service coverage ratio. If the Group cannot maintain those financial covenants, the Group might be called up for immediate debt settlement.

6 Fair value

Fair value of financial assets, investment property and derivative liabilities are disclosed in Notes 11, 16 and 24, respectively.

7 Critical accounting estimates and judgements

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

Power plant, equipment and intangible assets

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

Fair value estimation on business combination

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

8 Operating segments

The principal business operations of the Group are generation and distribution of electricity from solar power and biomass and operating its business in Thailand and in Japan. Segment information is presented in respect of the Group's geography segments which are domestic and international. The two segments presented were classified and reviewed by authorised persons which are Chief Executive Officer and the Executive Committee.

The following information is used by authorised persons to evaluate operation of each segment.

Financial information by geography segment

	For the year ended 31 December (Million Baht)									
	Dome	estic	Interna		To			nation	Tot	al
	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
Revenue from operations Other income Dividends income	1,398.09 18.66 926.35	1,384.37 20.11 762.68	23.93 1.11	297.80 3.54	1,422.02 19.77 926.35	1,682.17 23.65 762.68	(107.43) (7.99) (926.35)	(158.09) (13.78) (762.68)	1,314.59 11.78	1,524.08 9.87
Cost of operations	(884.17)	(869.07)	(31.64)	(212.25)	(915.81)	(1,081.32)	22.87	6.08	(892.94)	(1,075.24)
Operating profit Administrative expenses	1,458.93 (243.59)	1,298.09 (361.99)	(6.60) (67.19)	89.09 (67.07)	1,452.33 (310.78)	1,387.18 (429.06)	(1,018.90) 83.69	(928.47) 80.28	433.43 (227.09)	458.71 (348.78)
Profit (loss) before finance cost and taxes Finance costs Other (losses) gains Share of profit from investments in joint ventures	1,215.34 (350.28) (367.70) 647.70	936.10 (333.28) (2.53) 642.92	(73.79) (4.05) 224.54	22.02 (37.32) 99.25	1,141.55 (354.33) (143.16) 647.70	958.12 (370.60) 96.72 642.92	(935.21) 26.37 356.18	(848.19) 32.28 (9.63)	206.34 (327.96) 213.02 647.70	109.93 (338.32) 87.09 642.92
Operating results before taxes Income tax	1,145.06 (14.05)	1,243.21 (6.57)	146.70 (1.28)	83.95 (2.06)	1,291.76 (15.33)	1,327.16 (8.63)	(552.66)	(825.54)	739.10 (15.33)	501.62 (8.63)
Net profit (loss)	1,131.01	1,236.64	145.42	81.89	1,276.43	1,318.53	(552.66)	(825.54)	723.77	492.99
Timing of revenue recognition Over time									1,314.59	1,524.08
Total revenue								_	1,314.59	1,524.08
Total assets	19,432.89	18,467.30	11,609.28	11,569.03	31,042.17	30,036.33	(10,532.13)	(10,329.56)	20,510.04	19,706.92
Total liabilities	12,394.59	12,900.68	9,774.74	9,014.04	22,169.33	21,914.72	(8,102.03)	(8,557.33)	14,067.31	13,357.39

9 Cash and cash equivalents

	Consol financial st		Sepa financial st	
	2022	2021	2022	2021
	Baht	Baht	Baht	Baht
Cash on hand	215,000	225,000	30,000	25,000
Cash at bank	360,427,982	848,843,198	131,104,688	79,363,743
	360,642,982	849,068,198	131,134,688	79,388,743

The average effective interest rate on short-term bank deposits was 0.23% per annum (2021: 0.11% per annum).

10 Restricted bank deposits

Short-term restricted bank deposits comprise saving deposits specially for repayment of debenture's principals and interest, pledged saving deposits and pledged deposits in current accounts of subsidiaries and the transfer of claims in the deposit accounts to the lender according to the specified expenditure conditions to secure the credit facilities.

The long-term restricted bank deposits consist of the pledged saving and current bank deposits of the Company to guarantee its electricity consumption, the pledged saving bank deposits of the subsidiaries for the specific purpose specified in the credit facility agreement.

11 Fair value

As at 31 December 2022, all financial assets and liabilities are measured at amortised cost, except for the investment in debt instruments measured at fair value through profit or loss. The fair value of financial assets and financial liabilities matured within one year approximate their carrying amount.

Financial assets measured at fair value through profit or loss - investments in debt instruments

	Consolidated and separate financial statements Financial assets measured at fair value through profit or loss Baht
At 31 December 2021 Additions Change in fair value of investments	2,000,000 7,126
At 31 December 2022	2,007,126

The fair value of investments are within level 2 of the fair value hierarchy which is based on bid price in liquidity market as at financial statement date.

12 Trade and other receivables

Trade and other receivables as at 31 December 2022 and 2021 comprise the following:

	Consol financial s		Sepa financial st	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Trade receivables <u>Less</u> Expected credit loss	220,609,619	199,692,438	-	- -
Total trade receivables, net	220,609,619	199,692,438	-	
Amounts due from and advances to related parties (Note 36.2) Prepaid expenses Dividends receivable (Note 36.2) Other receivables Advance payment	4,692,736 9,881,261 158,550,028 14,952,549 611,025	4,469,272 20,481,629 136,500,024 12,155,373 6,714,453	152,947,438 4,123,050 158,550,028 10,280,535 378,100	187,115,196 3,652,408 136,500,024 8,687,562 244,120
Total other receivables Less Expected credit loss	188,687,599 (8,500,000)	180,320,751 (8,500,000)	326,279,151 (8,500,000)	336,199,310 (8,500,000)
Total other receivables, net	180,187,599	171,820,751	317,779,151	327,699,310
Total trade and other receivables	400,797,218	371,513,189	317,779,151	327,699,310

All outstanding trade receivable are not yet due.

13 Other current assets

Deposit for project bidding Withholding tax deducted at sources Others

	lidated statements	Separate financial statements			
2022	2021	2022	2021		
Baht	Baht	Baht	Baht		
260,400,000	-	120,800,000	-		
5,447,172	2,758,841	5,383,764	2,693,405		
860,841	394,311	603,034	191,042		
266,708,013	3,153,152	126,786,798	2,884,447		

14 Investments in joint ventures

Movement in investments in joint ventures

	Consolidated financial statements Baht	Separate financial statements Baht
For the year ended 31 December 2022 Opening net book amount	2,049,707,165	350,000,130
Share of profit Dividends received	647,702,369 (602,350,069)	- -
Closing net book amount	2,095,059,465	350,000,130

Details of investment in joint ventures at 31 December 2022 and 2021 are as follows:

		Country of _		ership	Measurement	
	Type of business	incorporation	2022	2021	method	
Joint venture directly held by the Company Thai Solar Renewable Co., Ltd.	Investment holding	Thailand	60	60	Equity	
Joint venture held by Thai Solar Renewable Co., Ltd. Siam Solar Energy 1 Co., Ltd.*	Generation and distribution of electricity	Thailand	60	60	Equity	

^{*} The Company directly holds 1 share and the remaining shares are held by Thai Solar Renewable Co., Ltd.

Thai Solar Renewable Co., Ltd. is investment holding company and Siam Solar Energy 1 Co., Ltd. engage in the generation and distribution of electricity from solar energy. These companies are private companies and their shares are not traded. These companies were joint venture held by the Company and Global Power Synergy Public Co., Ltd.

Summarised financial information for joint ventures

Financial statements of Siam Solar Energy 1 Co., Ltd., subsidiary of Thai Solar Renewable Co., Ltd., was included in the consolidated financial statements of Thai Solar Renewable Co., Ltd.

Set out below are the summarised consolidated financial statements of Thai Solar Renewable Co., Ltd.

Summarised statement of financial positions

	Consolidated financial statements of			
	Thai Solar Renewable Co., Ltd.			
	As at 31 De			
	2022	2021		
	Baht	Baht		
Current				
Cash and cash equivalents	452,836	681,405		
Other current assets (excluding cash)	615,876,975	558,781,631		
Total current assets	616,329,811	559,463,036		
Current financial liabilities (excluding trade payables)	(376,357,230)	(376,393,752)		
Other current liabilities	(354,416,508)	(277,530,796)		
	<i>,</i>			
Total current liabilities	(730,773,738)	(653,924,548)		
Non-current Non-current	4 400 457 000	4 470 044 000		
Non-current assets	4,199,157,838	4,478,244,300		
Non-current financial liabilities	(728,512,233)	(1,102,977,766)		
Other non-current financial liabilities	(1,685,685)	(1,708,654)		
-	0.400.050.000			
Total non-current net assets	3,468,959,920	3,373,557,880		
Not exects	2 254 545 002	2 270 006 200		
Net assets	3,354,515,993	3,279,096,368		

Summarised statement of comprehensive income

	Consolidated financial statements of			
	Thai Solar Renewable Co., Ltd.			
	For the year ended 31 December			
	2022 20			
	Baht	Baht		
Revenue from sales	581,861,963	496,467,987		
Subsidy for adders	1,033,455,163	1,046,670,027		
Cost of sales	(320,300,770)	(321,520,947)		
Gross profit	1,295,016,356	1,221,617,067		
Other income	7,023,266	3,857,781		
Other gains	-	782,921		
Administrative expenses	(74,457,118)	(80,838,951)		
Finance costs	(48,999,889)	(59,875,968)		
Profit before income tax	1,178,582,615	1,085,542,850		
Income tax	(99,078,667)	(14,010,858)		
Profit from continuing operations after income tax	1,079,503,948	1,071,531,992		

The information above reflects the amounts presented in the financial statements of the joint venture (and not the Group's share of those amounts). Under equity method the Group recognised profit or loss of the joint venture in Statement of Comprehensive Income within "Share of profit from investments in joint venture" according to the Group's interest in the joint venture.

Reconciliation of summarised financial information

Reconciliation of the summarised financial information presented to the carrying amount of its interest in joint ventures.

	Thai Solar Rene As at 31 D	,
	2022 Baht	2021 Baht
Summarised financial information		
Closing net assets Reconciliation: The difference from restructuring	3,354,515,993	3,279,096,368
business under common control Non-controlling interests	136,913,097 336,685	136,913,097 169,143
Closing net assets after reconciliation	3,491,765,775	3,416,178,608
Interest in joint ventures (60%)	2,095,059,465	2,049,707,165
Carrying value	2,095,059,465	2,049,707,165

As at 31 December 2022, Thai Solar Renewable Company Limited has pledged share certificates of Siam Solar Energy 1 Company Limited, amounting to Baht 1,080 million (2021: Baht 1,080 million) as collateral for its subsidiary's credit facilities granted by a commercial bank. In addition, Siam Solar Energy 1 Company Limited has mortgaged land with construction thereon and machinery with a total net book value of Baht 4,139.68 million (2021: Baht 4,424.52 million) and pledged bank deposits amounting to Baht 334 million (2021: Baht 305 million) as collateral for credit facilities granted by a commercial bank.

The Company has pledged all share certificates of the investment in the joint venture with the lender as the collateral for the credit facilities which the joint venture is granted from the commercial bank.

15 Investments in subsidiaries

Details of investments as at 31 December 2022 and 2021 are as follows:

	Type of business	Proportion ordinary shall directly held Country of parent (%) Type of business incorporation 2022		shares held by	Propor shares non-cor interes	held by trolling
	Type of business	incorporation	2022	2021	LULL	2021
Subsidiaries directly held by						
the Company TSE Rooftop Co., Ltd.	Investment	Thailand	100	100	-	-
Solar Visible Co., Ltd.	Investment	Thailand	100	100	-	-
TSE Overseas Group Co., Ltd. World Solar Co., Ltd.	Investment Investment	Thailand Thailand	100 100	100 100	-	-
Thai Community Energy Co., Ltd.	Investment	Thailand	100	100	-	-
Subsidiaries held by TSE Rooftop Co., Ltd.						
Green Rooftop Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
North Rooftop Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
Lucky Solar Co., Ltd. Champ Energy Co., Ltd.	Production and distribution of electricity Production and distribution of electricity	Thailand Thailand	100 100	100 100	-	-
Roof Energy Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
Subsidiaries held by Solar Visible Co., Ltd.						
Solar Community Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
Infinity Solar Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
BS Bangsai Solar Co., Ltd. Siam Solar Power Plc.	Production and distribution of electricity Production and distribution of electricity	Thailand Thailand	100	100 100	-	-
Siam Tara Floating Co., Ltd.	Production and distribution of electricity	Thailand	100 100	100	-	-
Soilcrete Technology Co., Ltd.	Production and distribution of electricity	Thailand	100	-	-	-
Earth Energy Systems Co., Ltd.	Investment	Thailand	100	100	-	-
Subsidiaries held by Thai Community Energy Co., Ltd.						
Bangsawan Green Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
Oscar Save The World Co., Ltd. Native Power Energy Co., Ltd.	Production and distribution of electricity Production and distribution of electricity	Thailand Thailand	100 100	100 100	-	-
White Solution Energy Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
Clean Renewable Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
Subsidiary held by Siam Solar Power Plc.						
Siam Waste Power Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
Subsidiary held by Earth Energy Systems Co., Ltd.	Double still and distribution of all stricts	Thellerd	400	400		
Mars Solar Co., Ltd.	Production and distribution of electricity	Thailand	100	100	-	-
Subsidiaries held by TSE Overseas Group Co., Ltd.		a :	400	400		
TSE Group International Pte. Ltd. Solar Assets Pte. Ltd.	Investment Investment	Singapore Singapore	100 100	100 100	-	-
Onikoube Solar Power Pte. Ltd.	Investment	Singapore	100	100	-	-
TSE Japan G.K.	Service	Japan	100	100	-	-
Subsidiaries held by TSE Group International Pte. Ltd. Ishikawa Hanamizuki 1 G.K.	Production and distribution of electricity	Japan	-	100	-	-
Subsidiaries held by Solar Assets						
Pte. Ltd. Ibaraki Ushiku 2 G.K.	Land lease	Japan	_	100	_	-
Subsidiaries held by Onikoube Solar Power Pte. Ltd. PurpleSol G.K.	Production and distribution of electricity	Japan	100	100		_
i dipiodoi d.ik.	i readollori dila distribution di electrolly	υαραπ	100	100	_	-

Movements of investments in subsidiaries during the year are as follow:

Additional investment under Thai Solar Energy Plc.

	Separate financial information Baht
Opening net book value Additions	1,199,149,897 1,140,000,000
Closing net book value	2,339,149,897

On 10 May 2022, the Company additionally invested in 101,500,000 ordinary shares of TSE Overseas Group Co., Ltd., wholly owned subsidiary, at Baht 10 per share totaling Baht 1,015 million. The holding interest remains unchanged.

On 7 November 2022, the Company additionally invested in 30,000,000 ordinary shares of Solar Visible Ltd., wholly owned subsidiary, at Baht 2.5 per share totaling Baht 75 million. The holding interest remains unchanged.

On 7 November 2022, the Company additionally invested in 20,000,000 ordinary shares of TSE Rooftop Ltd., wholly owned subsidiary, at Baht 2.5 per share totaling Baht 50 million. The holding interest remains unchanged.

Business combination under Solar Visible Ltd.

On 7 July 2022, Solar Visible Company Limited, wholly owned subsidiary, acquired 2,254,000 ordinary shares of Soilcrete Technology Company Limited, representing 100% of the registered capital for a total consideration of Baht 527.61 million. Soilcrete Technology Company Limited engages in a ground-mounting solar power plant with the production capacity of 8 MW. The acquisition is considered as business acquisition.

The following table summarises the consideration paid for acquiring Soilcrete Technology Company Limited and the assets acquired and liabilities assumed recognised on acquisition date.

Consideration paid	Baht
Cash	527,613,112
Total consideration	527,613,112
Recognised amounts of identifiable assets acquired and liabilities assumed	Baht
Cash and cash equivalents Trade and other receivables Other current assets Property, plant and equipment Right in power purchase agreement Other non-current assets Trade and other payables Short-term loans from related parties Other current liabilities Deferred tax liabilities	34,227,241 14,865,939 19,626 242,522,790 345,000,000 64,800 (91,434) (117,550,747) (2,329,390) (40,928,323)
Total identifiable net assets Goodwill	475,800,502 51,812,610
Total	527,613,112
Net cash paid for business combination	493,385,871

Expenses related to the acquisition of subsidiary amounting to Baht 0.64 million are recognised as administrative expenses in the consolidated financial statements for the year ended 31 December 2022.

Disposal of investment under TSE Group International Pte. Ltd.

On 1 March 2022, TSE Group International Pte. Ltd. disposed investment in Ishikawa Hanamizuki 1 G.K. for a consideration of Baht 703.10 million. The Group deconsolidated and ceased consolidating this subsidiary since 1 March 2022. The Group recognised a gain from disposal of investment amounting to Baht 234.46 million under "Other gains (losses)" in the statement of comprehensive income in consolidated financial statements for the year ended 31 December 2022.

Disposal of investment under Solar Assets Pte. Ltd.

On 1 March 2022, Solar Assets Pte. Ltd. disposed investment in Ibaraki Ushiku 2 G.K. for a consideration of Baht 13.39 million. The Group deconsolidated and ceased consolidating this subsidiary since 1 March 2022. The Group recognised a loss from disposal of investment amounting to Baht 0.02 million under "Other gains (losses)" in the statement of comprehensive income in consolidated financial statements for the year ended 31 December 2022.

4.0		
16	Investment proper	TIDE
10	IIIV GOUITGITE PLOPGI	$\mathbf{u} \mathbf{c} \mathbf{c}$

	Consol	idated	Sepa	rate	
	financial st		financial statements		
	2022	2021	2022	2021	
	Baht	Baht	Baht	Baht	
Cost Less Accumulated depreciation	124,193,203 (2,047,373)	124,193,203 (1,085,372)	110,193,203	110,193,203	
Provision for impairment	(20,215,318)	(20,215,318)	(20,215,318)	(20,215,318)	
1 Tovicion for impairment	(20,210,010)	(20,210,010)	(20,210,010)	(20,210,010)	
Net book amount	101,930,512	102,892,513	89,977,885	89,977,885	
Fair value	138,420,100	138,420,100	124,420,100	124,420,100	
For the year ended 31 December Opening net book amount Depreciation	101,930,512 (962,001)	102,892,513 (962,001)	89,977,885	89,977,885	
Closing net book amount	100,968,511	101,930,512	89,977,885	89,977,885	
As at 31 December Cost	124,193,203	124,193,203	110,193,203	110,193,203	
Less Accumulated depreciation Provision for impairment	(3,009,374) (20,215,318)	(2,047,373) (20,215,318)	(20,215,318)	- (20,215,318)	
Net book amount	100,968,511	101,930,512	89,977,885	89,977,885	
Fair value	270,040,040	138,420,100	251,146,000	124,420,100	

The fair value of investment property are within level 2 of the fair value hierarchy which are based on market comparable approach by comparing with the current price of recently sold properties in the same location.

Amounts recognised in profit and loss that are related to investment properties are as follows:

		lidated statements	•	Separate financial statements		
	2022 Baht	2021 Baht	2022 Baht	2021 Baht		
Rental income Direct operating expenses relating to	450,228	411,573	450,228	411,573		
rental income	3,969	3,662	3,969	397		
Operating expenses not relating to rental income	66,286	4,190	33,632	4,190		

666,976,388

70,997,497 4,698,019,694

Net book amount

17 Property, plant and equipment									
-				Consolida	ted financial sta	atements			
		Land		Office	Tools and	Office		Asset under	
_	Land Baht	improvement Baht	Power plants Baht	buildings Baht	equipment Baht	equipment Baht	Vehicles Baht	construction Baht	Total Baht
At 1 January 2021									
Cost	778,261,129	101,892,583	7,073,122,189	30,092,186	35,775,548	21,441,920	45,926,121	3,511,365,060	11,597,876,736
Less Accumulated depreciation	-	(17,124,992)	(954,043,248)	(12,145,388)	(12,709,542)	(13,495,797)	(23,809,891)	-	(1,033,328,858)
Provision for impairment	-	(1,903,108)	(537,144,706)	(6,780,379)	(123,722)	(123,206)	-	-	(546,075,121)
Net book amount	778,261,129	82,864,483	5,581,934,235	11,166,419	22,942,284	7,822,917	22,116,230	3,511,365,060	10,018,472,757
For the year ended 31 December 2021									
Opening net book amount	778,261,129	82,864,483	5,581,934,235	11,166,419	22,942,284	7,822,917	22,116,230	3,511,365,060	10,018,472,757
Disposal of subsidiaries	(116,112,938)	-	(771,138,950)	-	-		-	.	(887,251,888)
Additions	-	314,808	11,847,108	363,000	4,968,624	703,628	-	1,770,394,994	1,788,592,162
Write-off, net Transfer-in (out)	-	-	(4,541,084) 303,393,268	-	(57,000) 415,542	(16)	-	(303,808,810)	(4,598,100)
Depreciation charge	-	(11,488,710)	(298,269,619)	(3,794,126)	(5,773,129)	(2,911,764)	(8,940,621)	(303,000,010)	(331,177,969)
Impairment charge	-	(693,084)	(159,246,458)	5,455,211	(796)	(77,294)	(0,040,021)	_	(154,562,421)
Exchange differences	4,828,197	-	34,041,194	-	-	1,193	-	(5,174,932)	33,695,652
Closing net book amount	666,976,388	70,997,497	4,698,019,694	13,190,504	22,495,525	5,538,664	13,175,609	4,972,776,312	10,463,170,193
At 31 December 2021									
Cost	666,976,388	102,207,391	6,643,956,088	30,455,186	41,102,714	22,044,015	45,926,121	4,972,776,312	12,525,444,215
<u>Less</u> Accumulated depreciation	-	(28,613,702)	(1,256,740,355)	(17,264,682)	(18,482,671)	(16,505,351)	(32,750,512)	-	(1,370,357,273)
Provision for impairment _	-	(2,596,192)	(689,196,039)	-	(124,518)	-	-	-	(691,916,749)

13,190,504

22,495,525

5,538,664

13,175,609 4,972,776,312 10,463,170,193

•				Consolida	ted financial sta	atements			
•	Land Baht	Land improvement Baht	Power plants Baht	Office buildings Baht	Tools and equipment Baht	Office equipment Baht	Vehicles Baht	Asset under construction Baht	Total Baht
·	Dani	Dani	Dani	Dani	Dani	Dani	Dani	Dani	Dani
For the year ended 31 December 2022									
Opening net book amount	666,976,388	70,997,497	4,698,019,694	13,190,504	22,495,525	5,538,664	13,175,609	4,972,776,312	10,463,170,193
Disposal of subsidiaries	(12,278,025)	-	(1,407,384,104)	-	-	(11,187)	-	-	(1,419,673,316)
Acquisition of a subsidiary	24,700,000	37,124,587	180,262,383	-	109,510	29,740	296,570	-	242,522,790
Additions	-	2,679,579	3,879,839	-	2,584,776	1,706,667	4,018,692	3,005,478,112	3,020,347,665
Write-off, net	-	-	-	-	-	(3)	(476,886)	-	(476,889)
Transfer-in (out)	-	(29,254,944)	38,280,030	(441,974)	1,193,084	-	-	(10,647,602)	(871,406)
Depreciation charge	-	(12,569,312)	(200,311,725)	(3,806,999)	(6,622,392)	(2,721,331)	(9,006,703)	-	(235,038,462)
Exchange differences	(33,105,524)	-	(91,907,072)	-	-	(37,883)	-	(582,705,532)	(707,756,011)
	0.40.000.000	00 077 407	0.000.000.015	0.044.504	40 700 500	4 = 0 4 00=		7 004 004 000	44 000 004 504
Closing net book amount	646,292,839	68,977,407	3,220,839,045	8,941,531	19,760,503	4,504,667	8,007,282	7,384,901,290	11,362,224,564
At 31 December 2022									
Cost	646,292,839	103,368,715	5,151,190,808	29,959,185	44,990,084	23,720,452	46,222,691	7,384,901,290	13,430,646,065
Less Accumulated depreciation	-	(31,795,116)	(1,241,155,723)	(21,017,654)	(25,105,063)	(19,215,785)	(38,215,409)	-	(1,376,504,750)
Provision for impairment	-	(2,596,192)	(689,196,040)	-	(124,518)	-	-	-	(691,916,750)
·									<u>.</u>
Net book amount	646,292,839	68,977,407	3,220,839,045	8,941,531	19,760,503	4,504,667	8,007,282	7,384,901,290	11,362,224,564

				Separate financi	al statements			
	•	Land		Office	Tools and	Office	Asset under	
	Land	improvement	Power plants	buildings	equipment	equipment	construction	Total
	Baht	Baht	Baht	Baht	Baht	Baht	Baht	Baht
At 1 January 2021								
Cost	37,552,064	3,141,059	888,600,839	27,734,238	2,663,944	14,391,211	150,000	974,233,355
Less Accumulated depreciation	-	(544,867)	(153,231,158)	(11,645,997)	(2,412,469)	(9,490,270)	, -	(177,324,761)
Provision for impairment		(1,903,108)	(536,408,457)	(6,780,379)	(123,722)	(123,206)	<u> </u>	(545,338,872)
Net book amount	37,552,064	693,084	198,961,224	9,307,862	127,753	4,777,735	150,000	251,569,722
For the year ended 31 December 2021								
Opening net book amount	37,552,064	693,084	198,961,224	9,307,862	127,753	4,777,735	150,000	251,569,722
Additions	-	-	-	· · ·	171,213	87,860	-	259,073
Write-off, net	-	-	(1,897,822)	(3,661,108)	(100,084)	(1,862,721)	-	(7,521,735)
Depreciation charge		(693,084)	(159,246,458)	5,455,211	(796)	(77,294)	-	(154,562,421)
Closing net book amount	37,552,064	-	37,816,944	11,101,965	198,086	2,925,580	150,000	89,744,639
At 31 December 2021								
Cost	37,552,064	3,141,059	888,600,839	27,734,238	2,835,157	14,462,871	150,000	974,476,228
Less Accumulated depreciation	-	(544,867)	(161,587,856)	(16,632,273)	(2,512,553)	(11,537,291)	-	(192,814,840)
Provision for impairment		(2,596,192)	(689,196,039)	-	(124,518)	<u> </u>		(691,916,749)
Net book amount	37,552,064	-	37,816,944	11,101,965	198,086	2,925,580	150,000	89,744,639
For the year ended 31 December 2022								
Opening net book amount	37,552,064	_	37,816,944	11,101,965	198,086	2,925,580	150,000	89,744,639
Additions	-	-	-	-	235,450	623,281	-	858,731
Depreciation charge	-	-	(1,897,822)	(3,661,108)	(80,514)	(1,787,396)	-	(7,426,840)
Closing net book amount	37,552,064	-	35,919,122	7,440,857	353,022	1,761,465	150,000	83,176,530
A4 04 December 0000								
At 31 December 2022 Cost	37,552,064	2 1/1 060	888,600,839	27,734,237	3,070,607	15,086,151	150,000	075 224 059
Less Accumulated depreciation	37,002,004	3,141,060 (544,867)	(163,485,677)	(20,293,380)	(2,593,067)	(13,324,686)	130,000	975,334,958 (200,241,677)
Provision for impairment		(2,596,193)	(689,196,040)	(20,233,300)	(124,518)	(10,027,000)	_	(691,916,751)
·		, , , , , , , , , , , , , , , , , , , ,	, , ,		, , ,			,
Net book amount	37,552,064	-	35,919,122	7,440,857	353,022	1,761,465	150,000	83,176,530

Borrowing costs incurring from the borrowings for the construction of the power plants during the year were capitalised and included as "Additions" for Baht 87.38 million (2021: Baht 117.63 million). The Group used the capitalisation rates of 2.82% to 4.58% per annum (2021: 2.82% to 4.58% per annum) to calculate the borrowing costs for the capitalisation. The capitalisation rate are the actual rate of the borrowings which were used for the construction, and the interest rate differential between borrowing costs that would incur if the company borrowed in its functional currency and actual borrowing costs incurred on foreign currency borrowing.

During the year ended 31 December 2021, the management has reviewed the recoverable amount of the thermal power plant, which was ceased the operation. Accordingly, loss on impairment amounting to Baht 154.56 million was additionally recognised in the statement of comprehensive income.

Depreciation expense has been recognised in the statement of comprehensive income as follows:

		Consolidated financial statements		rate tatements
	2022	2021	2022	2021
	Baht million	Baht million	Baht million	Baht million
Cost of sales	228.43	323.14	1.98	2.00
Administrative expense	6.61	8.04	5.45	5.52
	235.04	331.18	7.43	7.52

Land, building and equipment with the net book value amounting to Baht 9,695.76 million (2021: Baht 8,724.29 million) have been pledged as collaterals for credit facilities obtained from commercial bank.

18 Right-of-use assets

Right-of-use assets as at 31 December comprise the following:

	Consolidated financial statements						
	Properties	Equipment	Vehicles	Total			
	Baht	Baht	Baht	Baht			
Balance as at 1 January 2022	250,737,159	14,000,881	37,553,671	302,291,711			
Additions	2,008,929	-	2,332,883	4,341,812			
Disposal of subsidiaries	(89,923,212)	-	-	(89,923,212)			
Depreciation	(17,545,001)	(1,131,385)	(10,937,911)	(29,614,297)			
Translation adjustments	(6,387,675)	-	-	(6,387,675)			
Net book value as at 31 December 2022	138,890,200	12,869,496	28,948,643	180,708,339			

	Separate financial statements				
	Properties	Vehicles	Total		
	Baht	Baht	Baht		
Balance as at 1 January 2022 Additions Depreciation	5,631,415 - (3,900,879)	16,965,855 648,607 (4,110,814)	22,597,270 648,607 (8,011,693)		
Net book value as at 31 December 2022	1,730,536	13,503,648	15,234,184		

The expenses relating to leases that not included in the measurement of lease liabilities and right-of-use assets are as follows:

ioliows.	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
	Baht	Baht	Baht	Baht
Expense relating to short-term leases Expense relating to leases of low-value assets Expense relating to variable lease payments	596,182	114,605	169,962	114,605
	208,680	225,360	112,640	115,440
	7,402,034	8,061,944	-	-

Total cash outflow of leases in 2022 is Baht 51.44 million in the consolidated financial statements and Baht 9.33 million in separate financial statements. (2021: Baht 51.64 million in the consolidated financial statements and Baht 9.30 million in separate financial statements)

19 Goodwil

	Consolid financial stat	
	2022 Baht	2021 Baht
As 1 January		
Cost	53,332,214	53,332,214
<u>Less</u> Provision for impairment	(4,792,420)	(2,477,172)
Net book amount	48,539,794	50,855,042
Not book amount	40,000,104	00,000,042
For the year ended 31 December		
Opening net book amount	48,539,794	50,855,042
Acquisition of a subsidiary (Note 15)	51,812,610	-
Impairment charge	(3,681,768)	(2,315,248)
Closing net book amount	96,670,636	48,539,794
S	, ,	, ,
At 31 December		
Cost	105,144,824	53,332,214
<u>Less</u> Provision for impairment	(8,474,188)	(4,792,420)
Net book ground	00 070 000	40 500 704
Net book amount	96,670,636	48,539,794

The Group has reduced the carrying amount of goodwill to the amount that is recoverable by recognising the loss from impairment of goodwil in statement of comprehensive income.

The recoverable amount of a CGU is determined based on value-in-use calculations. These calculations use pre-tax cash flow projections based on financial budgets approved by management covering a contractual period of power purchase agreement. The growth rate does not exceed the long-term average growth rate for the business in which the CGU operates.

The key assumptions used for value-in-use calculations are as follows:

Gross margin¹ 54.16 - 68.43% Growth rate² 0.46 - 0.50% Discount rate³ 8.00%

- Budgeted gross margin
- ² Weighted average growth rates used to extrapolate cash flows for the budget period
- Post-tax discount rates applied to the cash flow projections

These assumptions are used for analysis a CGU generating cash in business segments.

Management determined budgeted gross margin based on past performance and expected market growth. The weighted average growth rates used are consistent with the forecasts throughout contractual period of power purchase agreement. The discount rates used are pre-tax and reflect specific risks relating to the relevant segments.

The impairment charge arose from the decreasing in the expected period of the operation in respect of the duration of the specified Power Purchase Agreement.

20 Intangible assets

	Consolidated financial statements				
		Power purchase			
	Software	agreement	Total		
	Baht	Baht	Baht		
As at 1 January 2021					
Cost	13,386,693	5,037,813,126	5,051,199,819		
Less Accumulated amortisation	(7,704,927)	(98,225,295)	(105,930,222)		
Net book amount	5,681,766	4,939,587,831	4,945,269,597		
For the year ended 31 December 2021					
Opening net book amount	5,681,766	4,939,587,831	4,945,269,597		
Additions	848,476	-	848,476		
Amortisation charge	(2,214,191)	(57,910,644)	(60,124,835)		
Exchange differences		(512,792)	(512,792)		
Closing net book amount	4,316,051	4,881,164,395	4,885,480,446		
As at 31 December 2021					
Cost	14,235,169	5,037,300,334	5,051,535,503		
Less Accumulated amortisation	(9,919,118)	(156,135,939)	(166,055,057)		
Net book amount	4,316,051	4,881,164,395	4,885,480,446		
For the year ended 31 December 2022					
Opening net book amount	4,316,051	4,881,164,395	4,885,480,446		
Additions	2,110,720	-	2,110,720		
Acquisition of a subsidiary	-	345,000,000	345,000,000		
Amortisation charge	(2,640,985)	(67,060,851)	(69,701,836)		
Exchange differences	-	(367,288,717)	(367,288,717)		
Closing net book amount	3,785,786	4,791,814,827	4,795,600,613		
As at 31 December 2022					
Cost	16,345,889	5,015,011,617	5,031,357,506		
Less Accumulated amortisation	(12,560,103)	(223,196,790)	(235,756,893)		
- 1555s.atod difformation	(12,000,100)	(220,100,100)	(=00,100,000)		
Net book amount	3,785,786	4,791,814,827	4,795,600,613		

	Separate financial statements
	Computer software Baht
As at 1 January 2021	
Cost <u>Less</u> Accumulated amortisation	12,349,757 (7,229,626)
Net book amount	5,120,131
For the year ended 31 December 2021	E 400 404
Opening net book amount Additions	5,120,131 243,640
Amortisation charge	(2,006,997)
Closing net book amount	3,356,774
As at 31 December 2021	40.500.005
Cost Less Accumulated amortisation	12,593,397 (9,236,623)
7.00diffuldiod diffoliodiloff	(0,230,020)
Net book amount	3,356,774
For the year ended 31 December 2022	
Opening net book amount	3,356,774
Additions	311,320
Amortisation charge	(1,941,454)
Closing net book amount	1,726,640
As at 31 December 2022	40.004.710
Cost Less Accumulated amortisation	12,904,716 (11,178,076)
Less Accumulated amortisation	(11,170,070)
Net book amount	1,726,640

Amortisation expenses recognised in the statement of comprehensive income are as follows;

		Consolidated financial statements		rate atements
	2022	2021	2022	2021
	Baht million	Baht million	Baht million	Baht million
Cost of sales	67.06	57.91	-	-
Administrative expense	2.64	2.21	1.94	2.01
·	69.70	60.12	1.94	2.01

21 Deferred income taxes

The analysis of deferred income tax assets and liabilities is as follows:

		Consolidated financial statements		rate tatements
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Deferred income tax assets Deferred income tax liabilities	108,465,857 (171,710,194)	83,034,709 (103,938,044)	- (5,111,357)	(3,557,083)
Deferred income taxes - net	(63,248,436)	(20,903,335)	(5,111,357)	(3,557,083)

Movement of deferred income tax account is as follows:

	Consolidated financial statements		Separ financial sta	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
As at 1 January Acquisition of subsidiaries Disposal of subsidiaries Recognised in profit or loss (Note 32) Exchange differences	(20,903,335) (40,928,323) - (1,416,778)	(22,247,848) - (334,371) 1,867,835 (188,951)	(3,557,083) - - (1,554,274)	(4,688,555) - - 1,131,472
As at 31 December	(63,248,436)	(20,903,335)	(5,111,357)	(3,557,083)

Movements of deferred income tax assets and liabilities during the year are as follows:

	Consolidated financial statements				
	Tax losses Baht	Fair value of plant and equipment from acquisition of subsidiaries	Right-of-use assets Baht	Others Baht	Total Baht
Deferred income tax assets					
As at 1 January 2021	124,346	49,186,372	35,764,410	794,717	85,869,845
Disposal of a subsidiary	(124,328)	-	-	(567,157)	(691,485)
Recognised in profit or loss	-	-	(1,916,073)	104,611	(1,811,462)
Exchange differences	(18)	-	-	(332,171)	(332,189)
As at 31 December 2021	-	49,186,372	33,848,337	-	83,034,709
As at 1 January 2022	-	49,186,372	33,848,337	-	83,034,709
Acquisition of subsidiaries	-	25,450,859	-	-	25,454,958
Recognised in profit or loss	-	-	(23,810)	-	(23,810)
As at 31 December 2022	-	74,637,231	33,824,527	-	108,461,758

	Consolidated financial statements					
	Deferred debt issuance cost Baht	Depreciation Baht	Fair value of intangible assets Baht	Fair value of property from acquisition of subsidiaries Baht	Other Baht	Total Baht
Deferred income tax liabilities						
As at 1 January	(2,657,140)	(24,668,169)	(63,545,089)	(8,539,930)	(8,707,365)	(108,117,693)
Disposal of subsidiaries	1,857,490	(1,500,376)	-	-	-	357,114
Recognised in profit or loss	(468,989)	3,693,153	=	=	455,133	3,679,297
Exchange differences	218,390	(64,104)	=	=	(11,048)	143,238
As at 31 December 2021	(1,050,249)	(22,539,496)	(63,545,089)	(8,539,930)	(8,263,280)	(103,938,044)
As at 1 January 2022 Acquisition of subsidiaries	(1,050,249)	(22,539,496)	(63,545,089) (63,479,182)	(8,539,930) (2,900,000)	(8,263,280)	(103,938,044) (66,379,182)
Recognised in profit or loss	24,268	925,556	-	(=,===,===, -	(2,342,792)	(1,392,968)
,	,	,			, , , , ,	, . , , ,
As at 31 December 2022	(1,025,981)	(21,613,940)	(127,024,271)	(11,439,930)	(10,606,072)	(171,710,194)

		Separate financial statements				
	Deferred debt issuance cost Baht	Depreciation Baht	Others Baht	Total Baht		
Deferred income tax liabilities As at 1 January 2021	(691,170)	(2,896,586)	(1,100,799)	(4,688,555)		
Recognised in profit or loss	(359,079)	948,047	542,504	1,131,472		
As at 31 December 2021	(1,050,249)	(1,948,539)	(558,295)	(3,557,083)		
As at 1 January 2022 Recognised in profit or loss	(1,050,249) 24,268	(1,948,539) 933.253	(558,295) (2,511,795)	(3,557,083) (1,554,274)		
As at 31 December 2022	(1,025,981)	(1.015.286)	(3.070.090)	(5,111,357)		

Presentation in the statements of financial position is as follows:

	Consol financial st		Separate financial statements	
As at 31 December	2022	2021	2022	2021
	Baht	Baht	Baht	Baht
Deferred income tax assets	22,025,026	22,021,077	-	(3,557,083)
Deferred income tax liabilities	(85,273,462)	(42,924,412)	(5,111,357)	
Deferred income tax, net	(63,248,436)	(20,903,335)	(5,111,357)	(3,557,083)

Deferred income tax assets and liabilities are offset when the income taxes related to the same fiscal authority. Deferred tax assets and deferred tax liabilities in the consolidated financial position are presented at net amount of assets and liabilities incurred in each entity.

Deferred income tax assets are recognised for tax loss carry forwards only to the extent that realisation of the related tax benefit through the future taxable profits is probable. The Group did not recognise deferred income tax assets of Baht 403.31 million (2021: Baht 303.59 million) in respect of losses carry forward amounting to Baht 2,016.53 million (2021: Baht 1,517.94 million).

A summary of the tax losses carried forward and the expiry dates are set out below:

Expiry year	Consolidated financial statements Baht	Separate financial statements Baht
2023	304,503,288	291,765,982
2024	418,156,161	410,500,432
2025	308,074,352	235,528,229
2026	259,193,622	234,490,004
2027	726,603,732	698,551,806
	2,016,531,155	1,870,836,453

22 Trade and other payables

Trade account payables
Construction payables and
retention guarantee
Payables from acquisition
of investments (Note 36.2)
Other accrued expenses

 Consolidated financial statements		•	arate statements
2022 Baht	2021 Baht	2022 Baht	2021 Baht
38,729,999	54,654,948	2,914,151	1,973,393
407,500	1,145,800	7,500	7,500
- 131,065,906	- 96,464,876	249,995 51,526,880	249,995 42,844,002
170,203,405	152,265,624	54,698,526	45,074,890

23 Borrowings

23.1 Short-term borrowings from financial institutions

Short-term borrowings from financial institutions

•	Consolidated financial s
2021	2022
Baht	Baht
230,000,000	824,800,000

Movements in short-term borrowings from financial institutions during 2022 and 2021 are analysed as follows:

		Consolidated and Separate financial statements		
	2022 Baht	2021 Baht		
Opening amount as at 1 January Cash items:	230,000,000	250,000,000		
Additions Repayment of borrowings	3,206,800,000 (2,612,000,000)	60,000,000 (80,000,000)		
Closing amount as at 31 December	824,800,000	230,000,000		

The short-term borrowings comprised promissory note issued to financial institution amounting to Baht 824.80 million with interest rate of 2.60% to 6.35% per annum. The principal repayment is due by 17 May 2023.

23.2 Lease liabilities

The present value of lease liabilities are as follows:

	Consolio financial sta		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Not later than 1 year Later than 1 year but not	16,203,277	29,091,881	3,365,064	7,989,350
later than 5 years Later than 5 years	35,334,199 156,877,092	60,389,269 227,927,329	2,066,470	4,861,779 -
	208,414,568	317,408,479	5,431,534	12,851,129

Movements in lease can be analysed as follows:

	Consolida	Consolidated financial statements		
	Lease	Deferred	Lease	
	payables	interest	liabilities	
As at 1 January 2021 Cash items:	451,930,202	(113,509,809)	338,420,393	
Repayment Non-cash items:	(43,236,031)	-	(43,236,031)	
Additions	11,649,384	(254,381)	11,395,003	
Lease termination	(293,715)	7,969	(285,746)	
Amortised deferred interest	-	11,128,594	11,128,594	
Foreign currency translation differences	(6,607)	(7,127)	(13,734)	
As at 31 December 2021	420,043,233	(102,634,754)	317,408,479	
As at 1 January 2022 Cash items:	420,043,233	(102,634,754)	317,408,479	
Repayment Non-cash items:	(35,715,359)	-	(35,715,359)	
Additions	4,547,582	(331,185)	4,216,397	
Disposal of subsidiaries	(87,685,763)	6,499,952	(81,185,811)	
Amortised deferred interest	(0.000.445)	9,589,068	9,589,068	
Foreign currency translation differences	(6,329,415)	431,209	(5,898,206)	
As at 31 December 2022	294,860,278	(86,445,710)	208,414,568	
	Separate financial statements			
	Lease	Deferred	Lease	
	payables	interest	liabilities	
As at 1 January 2021 Cash items:	21,717,823	(1,186,116)	20,531,707	
Repayment Non-cash items:	(9,049,409)	-	(9,049,409)	
Additions	720,000	(51,853)	668,147	
Amortised deferred interest		700,684	700,684	
As at 31 December 2021	13,388,414	(537,285)	12,851,129	
As at 1 January 2022 Cash items:	13,388,414	(537,285)	12,851,129	
Repayment Non-cash items:	(8,449,888)	-	(8,449,888)	
Additions	720,000	(71,393)	648,607	
Amortised deferred interest	-	381,686	381,686	
As at 31 December 2022	5,658,526	(226,992)	5,431,534	

23.3 Long-term borrowings from financial institutions

Current portion of
long-term borrowings
Long-term borrowings payable
between 1 to 5 years
Long-term borrowings payable
more than 5 years

Consolidated financial statements		Separate financial statements	
2022 Baht	2021 Baht	2022 Baht	2021 Baht
Dant	Dant	Dant	Dani
498,840,729	600,855,831	292,704,365	331,320,868
8,331,670,688	7,098,652,162	1,632,829,446	1,839,874,374
421,396,008	1,295,150,097	114,399,225	14,694,373
9,251,907,425	8,994,658,090	2,039,933,036	2,185,889,615

The long-term borrowings from financial institutions are secured by the pledge and the assignment of rights over the Group's bank deposits, land with construction thereon and machinery, the assignment of rights under all project agreements, pledge of the certain shares held by the subsidiaries and the joint venture's shares held by the Company, pledge of the Company's shares that held by P.M. Energy Company Limited, shares of subsidiaries, and the right to receive dividends from subsidiaries and joint venture.

The loan agreements contain covenants imposed on the Group as specified in the agreements, related to such matters as dividend payment, reduction of share capital, merger or consolidation with any other entities and maintenance of certain debt to equity and debt service coverage ratios.

On 1 October 2021, the Company amended the loan agreement by converting currency of the outstanding balance from Japanese Yen to Thai Baht, changing interest rate from TIBOR +3% to MLR -1% and extending the borrowing term from 1 October 2021 to 3 October 2024.

The Company assessed the amendment of the new term and determined that it meets definition of derecognition. Accordingly, the Company recognised the new financial liability based on the fair value of its obligation. The outstanding balance of the existing liability is derecognised. The difference amounting to Baht 60.45 million is recorded as gain in other gains/losses in statement of comprehensive income for the year ended 31 December 2021.

Movements in long-term borrowings from financial institutions during 2022 and 2021 are analysed as follows:

	Consol financial st		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Opening amount as at 1 January Cash items:	8,994,658,090	8,722,347,683	2,185,889,615	2,538,651,285
Addition Financial service fee Repayment of borrowings	2,448,883,398 (950,000) (542,062,017)	1,557,491,210 (4,539,901) (652,363,726)	190,000,000 (950,000) (336,732,017)	(4,539,901) (360,771,656)
Non-cash items: Disposal of subsidiaries Gain on loan restructuring Amortisation of financial service fee Foreign currency translation differences	(1,104,210,408) - 9,440,899 (553,852,537)	(646,231,143) (60,451,325) 13,921,176 64,484,116	- - 1,725,438 -	(60,451,325) 3,568,846 69,432,366
Closing amount as at 31 December	9,251,907,425	8,994,658,090	2,039,933,036	2,185,889,615

The contractual interest rates of the long-term borrowings at the statement of financial position date are as follows:

		Consolidated fina	incial statements	;
		2022		2021
		%		%
	Fixed	Floating	Fixed	Floating
Currency	interest rates	interest rates	interest rates	interest rates
Yen	-	TIBOR + 1.22 to 2.75	-	TIBOR + 1.22 to 2.75
Baht	3.30	Fixed deposit rate + 3.35	3.25	Fixed deposit rate + 3.35
	2.00	THBFIX + 3.50	2.00	THBFIX + 3.50
		MLR - 1.00 to 1.95		MLR - 1.00 to 1.95
		Compound thor +2.50		
		2.00		
		Separate finance	cial statements	
		2022		2021
		%		%
	Fixed	Floating	Fixed	Floating
Currency	interest rates	interest rates	interest rates	interest rates
Baht	3.30	MLR - 1.00 to 1.95	3.25	MLR - 1.00 to 1.95
		Compound thor +2.50		
		2.00		

23.4 Borrowing facilities

The Group and the Company have the following undrawn committed borrowing facilities:

		Consolidated financial statements		Separa financial stat	
	Currency	2022	2021	2022	2021
Floating rate Expiring beyond one year	Baht Thousand Yen Thousand	160,450 5,841,250	197,132 14,141,250	35,400	35,400
Fixed rate Expiring beyond one year	Baht Thousand	4,966	4,966	_	-

23.5 Debentures

	Consolidated a	•
	2022 Baht	2021 Baht
Current portion of debentures Debentures payable between 1 to 5 years	1,099,290,378 2,334,960,631	2,348,497,958 1,098,310,884
,.,	3,434,251,009	3,446,808,842

Movements in debentures during 2022 and 2021 are analysed as follows:

		Consolidated and Separate financial statements		
	2022 Baht			
Opening amount as at 1 January Cash items:	3,446,808,842	3,444,096,320		
Issuance of debentures Maturing of debentures	2,350,000,000 (2,350,000,000)			
Deferred issuance cost	(16,450,000)			
Non-cash items: Amortisation of issuance cost	3,892,167	2,712,522		
Closing amount as at 31 December	3,434,251,009	3,446,808,842		

As at 31 December 2022, outstanding debentures comprise name-registered certificate of unsubordinated and unsecured debentures totaling 1,099,600 units and 2,350,000 units with the fixed interest of 4.50% and 5.10% per annum, with the interest payable every 3 months. Debentures have the face value of Baht 1,000. The debentures amounting to Baht 1,099.60 million and Baht 2,350 million will be redeemed on 10 April 2023 and 27 October 2024, respectively.

23.6 Fair value

The carrying amounts and fair values of certain lease liabilities, long-term borrowings from financial institutions and debentures are as follows:

	(Consolidated fina	ncial statements		
	Carrying	amounts	Fair v	alue	
	31 December 2022 Baht	31 December 2021 Baht	31 December 2022 Baht	31 December 2021 Baht	
Lease liabilities Long-term borrowings	208,414,568	317,408,479	207,852,280	258,126,355	
from financial institutions	9,251,907,425	8,994,658,090	7,785,565,451	8,305,329,828	
Debentures	3,434,251,009	3,446,808,842	3,451,236,200	3,429,551,010	
	Separate financial statements				
	Carrying	amounts	Fair value		
	31 December 2022 Baht	31 December 2021 Baht	31 December 2022 Baht	31 December 2021 Baht	
Lease liabilities Long-term borrowings	5,431,534	12,851,129	5,334,454	12,384,627	
from financial institutions Debentures	2,039,933,036 3,434,251,009	2,185,889,615 3,446,808,842	1,866,177,697 3,451,236,200	1,992,231,804 3,429,551,010	

The fair value of short-term borrowings from financial institutions equals their carrying amount, as the impact of discounting is not significant.

The fair values are based on discounted cash flows using a discount rate based upon the borrowing rates of 5.25% (2021: 1.89% to 4.33%) and are within level 2 of the fair value hierarchy.

23.7 Interest rates

The effective interest rates at the statement of financial position date are as follows:

	Consolidated financial statements		Separate financial statements	
	2022	2021	2022	2021
Borrowings from financial institutions Debentures	2.02% - 5.25% 4.53% - 5.39%	1.89% - 4.33% 4.52%	2.88% - 4.96% 4.53% - 5.39%	4.15% - 4.85% 4.52%

24 Derivative liabilities

	olidated statements
2022	2021
Baht	Baht
-	50,463,036

Non-current interest rate swap

The fair value of interest rate swaps are within level 2 of the fair value hierarchy which are calculated as the present value of the estimated future cash flows based on observable yield curve.

Cash flow hedging on long-term borrowing

To avoid the uncertainty of floating interest rate exposure under JPY denominated borrowing, the Group entered into interest rate swap agreement of principal amounting to Baht 1,175.97 million with financial institution in March 2017 to swap floating rate to a fixed rate until 2037. Such contract was belonged to a foreign subsidiary located overseas. The Group disposed this investment in such subsidiary during 2022. At 31 December 2022, the Group has no derivative liabilities.

25 Employee benefit obligations

	Consolidated financial s	
	2022 Baht	2021 Baht
Statement of financial position: Retirement benefits Liability in the statement of financial position	20,519,070	21,559,034

The movement in the defined benefit obligations over the year is as follows:

		Consolidated and Separate financial statements		
	2022 Baht	2021 Baht		
At 1 January	21,559,034	17,371,256		
Current service cost Interest expense	6,739,084 355,708	4,018,245 286,612		
Remeasurements Benefit payment	(2,442,589) (5,692,167)	(117,079)		
At 31 December	20,519,070	21,559,034		

The principal actuarial assumptions used were as follows:

	Consolidated and Separate financial statements 2022 2021	
2022	2021	
3.01%	1.65%	
4.00%	4.00%	

The sensitivity analyses of significant actuarial assumptions in pension liability calculations.

			lm	pact on defined b	enefit obligation	_
	Change in ass	sumption	Increase in as	sumption	Decrease in a	ssumption
	2022	2021	2022	2021	2022	2021
Discount rate	1%	1%	Decrease	Decrease	Increase	Increase
Salary growth rate	1%	1%	by 10.69 % Increase	by 10.68 % Increase	by 12.71 % Decrease	by 12.66 % Decrease
			by 12.45 %	by 14.39 %	by 10.69 %	by 12.26 %

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

The methods and types of assumptions used in preparing the sensitivity analysis did not change compared to the previous year.

Through its defined benefit retirement plans, the Group is exposed to a number of risks, the most significant of which are detailed below:

Changes in bond yields A decrease in Government bond yields will increase plan liabilities.

Inflation risk Some of the Group pension obligations are linked to inflation, and higher inflation

will lead to higher liabilities.

The weighted average duration of the defined benefit obligation is 23.01 years (2021: 24.60 years).

Expected maturity analysis of undiscounted retirement:

	Consolidated and Separate financial statements				
Retirement benefits	Less than a year Baht	Between 1-2 years Baht	Between 2-5 years Baht	Over 5 years Baht	Total Baht
As at 31 December 2021	409,672	619,580	1,872,380	221,412,065	224,313,697
As at 31 December 2022	780,140	516,359	3,008,567	287,999,563	292,304,629

26 Share capital and premium on share capital

	-	Consolidated and Separate financial statements				
	Number of shares Shares	Issued and paid Shares	Issued and paid up Baht	Share premium Baht	Total Baht	
At 1 January 2022	2,477,474,454	2,117,716,281	2,117,716,281	1,045,504,325	3,163,220,606	
At 31 December 2022	2,477,474,454	2,117,716,281	2,117,716,281	1,045,504,325	3,163,220,606	

As at 31 December 2022, the total authorised number of ordinary shares is 2,477,474,454 shares (2021: 2,477,474,454 shares) with a par value of Baht 1 each (2021: Baht 1 each). 2,117,716,281 shares are issued and fully paid (2021: 2,117,716,281 shares).

27 Legal reserve

		Consolidated financial statements		rate atements
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
At 1 January Appropriation during the year	130,022,093 20,655,665	106,757,899 23,264,194	91,877,074	80,090,954 11,786,120
At 31 December	150,677,758	130,022,093	91,877,074	91,877,074

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

28 Other income

Rental income Interest income Other income

	lidated	Separate financial statements		
	statements			
2022	2021	2022	2021	
Baht	Baht	Baht	Baht	
926,508	1,040,853	926,508	1,040,853	
543,577	442,201	8,113,407	13,855,736	
10,308,840	8,388,505	2,475,893	143,906	
11,778,925	9,871,559	11,515,808	15,040,495	

29 Other gains (losses)

Loss on exchange rate
Gain on loan restructuring
Realised gain on disposal of financial assets
measured at fair value
Gain on sale of investment in subsidiaries
(Note 15)

Consolidated financial statements			•	arate statements
2022 2021 Baht Baht		2022 Baht	2021 Baht	
(21,	,426,718) -	(77,774,936) 60,451,325	(363,920,651)	(68,919,054) 60,451,325
	7,126	-	-	-
234	,436,964	104,410,828	-	_
213	3.017.371	87.087.217	(363.920.651)	(8.467.729)

30 Expenses by nature

The following expenditure items, classified by nature, have been charged in arriving at the operating profit:

	Consolidated financial statements		Separate financial statements	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Salary, wages and employees' benefits Depreciation	216,240,156 265,614,761	179,232,892 370,438,422	176,636,288 15,438,533	156,226,299 15,935,584
Amortisation Impairment loss (Note 17)	69,701,835	60,124,835 154,562,421	1,941,454	2,006,997 154,562,421
Write off equipment	476,889	4,598,100	-	-
Professional fees Operation and maintenance of power plants Expected credit loss	121,694,396 28,273,664	157,282,593 31,791,762 7,768,571	34,669,030 660,310	13,935,104 524,753 7,605,020

31 Finance costs

Interest on borrowing from financial institutions Financial service fees Interest on lease liabilities

Consoli	dated	Separate financial statements		
financial st	atements			
2022	2021	2022	2021	
Baht	Baht	Baht	Baht	
310,088,292	317,095,882	266,243,482	239,497,221	
8,280,122	10,623,716	7,036,508	6,781,370	
9,589,714	10,596,803	381,686	700,684	
327,958,128	338,316,401	273,661,676	246,979,275	

32 Income tax

Current tax on profits for the year Deferred tax (Note 21) Adjustments in respect of prior year

Consol financial s		<u> </u>	arate statements
2022 Baht	2021 Baht	2022 Baht	2021 Baht
13,909,894 1,416,778	10,495,393 (1,867,835) 7,929	- 1,554,275 -	(1,131,472)
15,326,672	8,635,487	1,554,275	(1,131,472)

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

	Consolidated financial statements		Sepa financial s	
	2022 Baht	2021 Baht	2022 Baht	2021 Baht
Profit (loss) before tax	739,099,020	501,620,663	(51,148,515)	178,164,436
Tax calculated at a tax rate of 20% (2021: 20%) Tax effect of:	147,819,804	100,324,133	(10,229,703)	35,632,887
Foreign tax rate difference Joint venture's results reported net of tax	9,649,766 (129,540,474)	6,995,686 (128,583,839)	-	-
Tax exemption for income under BOI Income subject to tax	(55,600,305) 9,334,430	(46,662,169) 23,049,153	- 7,272,254	- 8,022,013
Income not subject to tax Expenses not deductible for tax purpose	(43,397,940) 3,540,563	(20,957,891) 36,055,828	(136,459,973) 2,488,700	(119,477,589) 35,095,808
Expense deducted at greater amount Tax losses for which no deferred	(2,871,575)	(6,547,686)	(2,781,639)	(6,171,120)
income tax asset was recognised Utilisation of previously unrecognised	145,320,746	51,838,724	139,710,361	46,898,001
tax losses Deferred tax expense relating to the origination	(1,370,038)	(2,522,247)	4 554 075	- (4.404.470)
and reversal of temporary differences Unrealised (loss) gain from	1,416,778	(1,867,833)	1,554,275	(1,131,472)
intercompany transactions Adjustment in respect of prior periods	(68,975,083)	(2,494,301) 7,929	-	<u>-</u>
Tax charge	15,326,672	8,635,487	1,554,275	(1,131,472)

33 Earnings (loss) per share

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

	Consolidated financial statements		Separate		
	2022	2021	financial statements 2022 20		
Net profit attributable to ordinary shareholders of the company (Baht)	723,772,348	492,705,987	(52,702,789)	179,295,908	
Weighted average number of outstanding ordinary shares (Shares)	2,117,716,281	2,117,716,281	2,117,716,281	2,117,716,281	
Basic earnings per share (Baht per share)	0.34	0.23	(0.02)	0.08	

There are no potential dilutive ordinary shares during 2022 and 2021.

34 Promotional privileges

The Group is granted with 34 certificates of promotional privileges from the Board of Investment for the production of electricity generated from solar power and biomass, the privilege includes an exemption of import duty on imported machinery, an exemption for corporate income tax for a period of 8 years from the date the promoted operation commenced generating revenue (the commercial operation date).

The Group's operating revenue from sales and subsidy for adders as per the statements of comprehensive income for the years ended 31 December 2022 and 2021 wholly derive from promoted operations in Thailand. Details of operating segments are disclosed in Note 8.

35 Dividends

2022

At the Annual General Meeting of Shareholders for 2022 held on 12 April 2022, the Shareholders had passed a resolution to approve payment of dividends at Baht 0.035 per share, totaling Baht 74.12 million. The dividends were paid on 22 April 2022.

2021

On 16 September 2021, the Board of Directors Meeting approved a dividend payment in respect of operating results during January to June 2021 to the shareholders at Baht 0.040 per share, totaling Baht 84.71 million. The dividends were paid on 12 October 2021.

36 Related party transactions

Enterprises and individuals that directly, or indirectly through one or more intermediaries, control, or are controlled by, or are under common control with, the company, including holding companies, subsidiaries and fellow subsidiaries are related parties of the company. Associates and individuals owning, directly or indirectly, an interest in the voting power of the company that gives them significant influence over the enterprise, key management personnel, including directors and officers of the company and close members of the family of these individuals and companies associated with these individuals also constitute related parties.

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

The Company is controlled by P.M. Energy Company Limited (incorporated in Thailand) which owns 46% of the Company's shares. The remaining 54% of the shares are held by Sino-Thai Engineering & Construction Public Company Limited and individual shareholders. The significant investments in joint venture, and subsidiaries are set out in Notes 14 and 15.

The following material transactions were carried out with related parties:

36.1 Sales of goods and services

	Consolic financial sta		Separate financial statements		
For the year ended 31 December	2022	2021	2022	2021	
	Baht	Baht	Baht	Baht	
Subsidiaries					
Management service income	-	-	79,212,000	139,397,500	
Operation and maintenance income	-	-	19,416,310	6,268,817	
Dividends income	-	-	79,949,756	11,487,839	
	-	-	178,578,066	157,154,156	
Joint venture					
Management service income	51,793,432	49,327,078	51,793,432	49,327,078	
Operation and maintenance income	3,465,000	-	3,465,000	-	
Rental income	476,280	476,280	476,280	476,280	
Dividends income	56	58	602,350,107	585,900,108	
	55,734,768	49,803,416	658,084,819	635,703,466	

Management service income and maintenance income from subsidiaries and joint venture are based on agreed upon rate.

36.2 Outstanding balances arising from sales/purchases of goods/services

	Consoli financial st		Separate financial statements		
	2022 2021		2022	2021	
	Baht	Baht	Baht	Baht	
Amounts due from and advances to related parties (Note 12)					
Subsidiaries	-	-	148,254,702	182,645,924	
Joint venture	4,692,736	4,469,272	4,692,736	4,469,272	
	4,692,736	4,469,272	152,947,438	187,115,196	
Dividends receivable (Note 12)					
Joint venture	158,550,028	136,500,024	158,550,028	136,500,024	
Receivables from disposal of investments Subsidiaries	-	-	404,409,990	1,383,683,149	

Receivables from disposal of investments arose due to the Group's restructuring.

Payables from acquisition		
of investments (Note 22)		
Subsidiaries	-	-

36.3 Long-term loans to subsidiaries

	Sepa financial st	
	2022 Baht	2021 Baht
Current portion of long-term loans to subsidiaries Long-term loans to subsidiaries	76,690,000 5,829,244,977	78,520,000 5,830,077,641
	5,905,934,977	5,908,597,641

249,995

249,995

Movements in loans to subsidiaries for the year ended 31 December are analysed as follows:

	Sepa financial s	
	2022 Baht	2021 Baht
Opening net book amount Cash items:	5,908,597,641	6,214,589,798
Addition Repayment received Non-cash items:	734,178,055 (385,161,395)	200,597,300 (508,208,010)
Foreign currency translation differences	(351,679,324)	1,618,553
Closing net book amount	5,905,934,977	5,908,597,641

Long-term loans to subsidiaries are in form of loan agreements denominated in Japanese Yen and Thai Baht. Loans carry zero interest and the rates range from 4.3% to 6.0% per annum, respectively. Loans have maturity within 2023 to 2028. The management do not have intention to call the for repayment of loans due at call in the next 12 months and classify these loans as long-term accordingly.

36.4 Key management compensation

For the year ended 31 December

Short-term employee benefits Post-employment benefits

Consoli financial st		Sepa financial s	
2022	2021	2022	2021
Baht	Baht	Baht	Baht
46,255,991	44,185,171	25,992,814	25,354,216
3,176,185	1,706,895	3,176,185	1,706,895
49,432,176	45,892,066	29,168,999	27,061,111

37 Contingencies

Guarantees

As at 31 December 2022, there were outstanding bank guarantees amounting to Baht 6 million (2021: Baht 6 million) issued by banks on behalf of the Company and its subsidiaries in respect of certain performance bonds as required in the normal course of business.

28 Commitments

38.1 Capital commitments

Capital commitments exist as at the date of the statement of financial position but not included in the financial statements are as follows:

_		Consolidated financial s	•
_	Currency	31 December 2022	31 December 2021
Power plants Power plants	USD JPY	4,924,450,000	17,555,070 11,818,680,000

38.2 Power purchase agreements

Domestic

As at 31 December 2022, the Group has 35 power purchase agreements with the Provincial Electricity Authority ("PEA") and the Metropolitan Electricity Authority ("MEA") (2021: 34 agreements). Currently, the Group has commenced the production and distribution of electricity under 34 power purchase agreements which are summarised as follows:

	The electricity generated system	Company	Number of agreements	Production capacity MW	Electricity rate (Baht/kilowatt-hour)	The term of the agreements
Production and distribution of electricity	Renewable energy	Company	1	4.5	Peak period amounting to Baht 4.21 and off-peak period amounting to Baht 2.63 for the quantity which do not exceed the capacity factor and peak period amounting to Baht 4.22 and off-peak period amounting to Baht 2.36 for the quantity which exceed the capacity factor and the Company had also been granted an adder amounting to Baht 8 granted for a period of 10 years commencing from commercial operation date (COD).	period of 5 years and will be automatically renewed every 5 years until the contract termination.
Production and distribution of electricity	Solar farm	Joint venture	10	80	Peak period amounting to Baht 4.21 and off-peak period amounting to Baht 2.63 for the quantity which do not exceed the capacity factor and peak period amounting to Baht 4.22 and off-peak period amounting to Baht 2.36 for the quantity which exceed the capacity factor and the Company had also been granted an adder amounting to Baht 6.50 granted for a period of 10 years commencing from commercial operation date (COD).	period of 5 years and will be automatically renewed every 5 years until the contract termination.

	The electricity generated system	Company	Number of agreements	Production capacity MW	Electricity rate (Baht/kilowatt-hour)	The term of the agreements
Production and distribution of electricity	Solar rooftops	Subsidiaries	14	14	Feed-in Tariff system (FiT) amounting to Baht 6.16.	The agreements are for a period of 25 years commencing from commercial operation date (COD).
Production and distribution of electricity	Solar farm	Subsidiary	4	8	Feed-in Tariff system (FiT) amounting to Baht 5.66.	The agreements are for a period of 25 years commencing from commercial operation date (COD).
Production and distribution of electricity	Biomass energy	Subsidiary	1	4.6	Feed-in Tariff system (FiT) amounting to Baht 4.28 and Feed-in Tariff system (FiT) Premium amounting to Baht 0.30 granted for a period of 8 years commencing from commercial operation date (COD).	The agreements are for a period of 20 years commencing from commercial operation date (COD).
Production and distribution of electricity	Biomass energy	Subsidiary	2	17.6	Feed-in Tariff system (FiT) amounting to Baht 4.28 and Feed-in Tariff system (FiT) Premium amounting to Baht 0.30 granted for a period of 8 years commencing from commercial operation date (COD).	The agreements are for a period of 15 years 4 months commencing from commercial operation date (COD).
Production and distribution of electricity	Solar farm	Subsidiary	1	5	Feed-in Tariff system (FiT) amounting to Baht 4.12.	The agreements are for a period of 25 years commencing from commercial operation date (COD).
Production and distribution of electricity	Solar farm	Subsidiary	1	8	Peak period amounting to Baht 4.18 and off-peak period amounting to Baht 2.60 for the quantity which do not exceed the capacity factor and peak period amounting to Baht 4.22 and off-peak period amounting to Baht 2.36 for the quantity which exceed the capacity factor and the Company had also been granted an adder amounting to Baht 8 granted for a period of 10 years commencing from commercial operation date (COD).	The agreements are for a period of 1 year and will be automatically renewed every 1 year until the contract termination.
Production and distribution of electricity	Floating Solar	Subsidiary	1	8	Peak period amounting Baht 4.10 and off-peak period amounting to Baht 2.58 granted for a period of 25 years commencing from commercial operation date (COD).	For a period of 25 years commencing from commercial operation date (COD)

Overseas

As at 31 December 2022, subsidiaries operating in Japan have no power purchase agreements (2021: 1 agreements) with the power purchasing agencies, of which the power plants have already commenced generating and distributing the electricity. In addition, subsidiaries have 1 power purchase agreement and right to develop for the power purchase agreement (2021: 1 agreements) for the projects which have not yet commenced generating and distributing the electricity. The agreements are summarised as follows:

	The electricity			Production		
	generated		Number of	capacity	Electricity rate	The term of the
	system	Company	agreements	MW	(Baht/kilowatt-hour)	agreements
Under development and construction	Solar farm	Subsidiary	1	154.98	Feed-in Tariff system (FiT) amounting to Yen 36.	The agreement has maturity within 2040 starting from commercial operation date (COD).

38.3 Contracts and other commitments

- A joint venture has commitments in respect of a management service agreement with the other venture amounting to Baht 6 million per annum for a period of 10 years from May 2013, with the service fee to increase on an annual basis at the rate specified in the agreement. The fees for the year ended 31 December 2022 amounting to Baht 4 million (2021: Baht 4 million) (in proportionate of the Company's interest in the joint venture) were recognised as expenses.
- b) A joint venture has commitments in respect of the operation and maintenance agreements of seven power plants with a company, amounting to Baht 9 million per annum for the period of 10 years from the commercial operation date. The fees for the year ended 31 December 2022 amounting to approximately Baht 5 million (2021: Baht 5 million) (in proportionate of the Company's interest in the joint venture) were recognised as expenses.
- c) A joint venture has commitments in respect of the operation and maintenance agreements of three power plants with a company, amounting to Baht 6 million per annum for the period of 4 years 7 months from June 2022. The service fees will be increased once a year at the rate stipulated in the contract. The fees for the year ended 31 December 2022 amounting to Baht 2 million per annum (in proportionate of the Company's interest in the joint venture) were recognised as expenses.
- d) A subsidiary has commitments in respect of the operation and maintenance agreements of two power plants with a company, amounting to Baht 43 million per annum for the period of 5 years from the commercial operation date. The fees for the year ended 31 December 2022 amounting to Baht 43 million (2021: Baht 44 million) were recognised as expenses.