Singapore Exchange Limited and its subsidiaries Registration Number: 199904940D

Financial Statements
For the financial year ended 30 June 2023

Directors' statement

The directors present their statement to the shareholders together with the audited financial statements of Singapore Exchange Limited ("the Company" or "SGX") and its subsidiaries ("the Group") for the financial year ended 30 June 2023.

In the opinion of the directors,

- (a) the financial statements set out on pages FS1 to FS123 are drawn up so as to give a true and fair view of the financial position of the Group and of the Company as at 30 June 2023 and the financial performance, changes in equity of the Group and of the Company, and the cash flows of the Group for the financial year ended on that date; and
- (b) at the date of this statement, there are reasonable grounds to believe that the Company will be able to pay its debts as and when they fall due.

Directors

The directors in office at the date of this statement are as follows:

Mr Koh Boon Hwee (Appointed as Chairman on 1 January 2023)

Mr Loh Boon Chye (Chief Executive Officer)

Dr Beh Swan Gin

Ms Chew Gek Khim

Ms Julie Gao (Appointed on 1 May 2023)

Mr Lim Chin Hu

Ms Lim Sok Hui (Mrs Chng Sok Hui)

Ms Lin Huey Ru (Appointed on 1 May 2023)

Mr Mark Makepeace Professor Subra Suresh Mr Samuel Tsien Mr Yeoh Oon Jin

Arrangements to enable directors to acquire shares and debentures

Neither at the end of, nor at any time during the financial year, was the Company a party to any arrangement whose object was to enable the directors of the Company to acquire benefits by means of an acquisition of shares in, or debentures of, the Company or any other body corporate, other than as disclosed under "Share plans" in this statement.

Directors' interests in shares or debentures

(a) According to the register of directors' shareholdings, none of the directors holding office at the end of the financial year had any interest in the shares or debentures of the Company or its related corporations, except as follows:

	Number of or registered director or	in name of	Number of ordinary shares in which director is deemed to have an interest		
	At	At	At	At	
	30.06.2023	01.07.2022	30.06.2023	01.07.2022	
Singapore Exchange					
Limited					
Mr Loh Boon Chye	_	762,799	1,121,199	_	
Mr Lim Chin Hu	45,982	43,835	_	_	
Ms Chew Gek Khim	10,982	8,835	_	_	
Professor Subra Suresh	8,405	6,258	_	_	
Mr Mark Makepeace	4,099	1,952	_	_	
Mr Yeoh Oon Jin	2,147	_	_	_	

- (b) According to the register of directors' shareholdings,
 - i. five non-executive directors holding office at the end of the financial year had interests in the shares of the Company granted pursuant to the SGX Restricted Share Plan; and
 - ii. one executive director holding office at the end of the financial year had interests in the shares of the Company granted pursuant to the SGX Performance Share Plan; and the SGX Deferred Long-Term Incentives Scheme as set out below:
 - Subject to the terms and conditions of the SGX Performance Share Plan and SGX Deferred Long-Term Incentives Scheme, 910,501 shares granted to Loh Boon Chye will vest between 1 September 2023 and 1 September 2026.
- (c) There was no change in any of the abovementioned interests in the Company or in related corporations between the end of the financial year and 21 July 2023.

Share plans

The Company offers the following share plans administered by the Remuneration & Staff Development Committee ("RSDC"):

- (a) SGX Performance Share Plan;
- (b) SGX Deferred Long-Term Incentives Scheme; and
- (c) SGX Restricted Share Plan.

(a) SGX Performance Share Plan

The current SGX Performance Share Plan ("SGX PSP 2015") was adopted at the annual general meeting of the Company held on 23 September 2015. Through the SGX PSP 2015, SGX will be able to recognise and reward past contributions and services, and motivate the plan participants to continue to strive for SGX's long term success. In addition, the SGX PSP 2015 aims to foster an ownership culture which aligns the interest of employees with the interest of shareholders.

Eligibility

Selected members of senior management who have attained the rank of Executive Director¹ and above are eligible to be considered for the award under SGX PSP 2015.

Fully paid SGX shares, their equivalent cash value or combinations thereof will be awarded and vest, free of charge, provided that certain prescribed performance targets are met and upon expiry of the prescribed vesting period(s). The amount released, if in the form of cash, is based on the market value of such shares on vesting date.

Unless otherwise decided by the RSDC, the entitlement to this award is conditional on the participant remaining in service up to the specified vesting date.

Restrictions

The total number of new SGX shares which may be issued pursuant to awards granted under SGX PSP 2015 on any date, when added to the total number of new shares issued and issuable in respect of all awards granted, shall not exceed 10% of SGX's issued share capital on the day preceding the relevant date of award.

For grants under SGX PSP 2015, the vesting period is four years and any shares that have been released to the participants are not subject to a retention period.

Share grant and vesting

The RSDC approves all grants and has absolute discretion in the granting and award of performance shares.

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¹ Senior Vice President has been renamed to Executive Director from 1 July 2022.

(a) SGX Performance Share Plan (continued)

Share grant and vesting (continued)

(i) FY2019 Grant under SGX PSP 2015

The number of SGX shares to be awarded to each participant was based on the achievement of prescribed performance targets over a three-year performance period from 1 July 2018 to 30 June 2021. The performance shares vested on 1 September 2022 and were fulfilled by delivery of the shares previously purchased from the market.

Participants (as defined under SGX Performance Share Plan)	Shares granted at grant date ⁽¹⁾	Balance as at 01.07.2022	Additional shares from higher achievement level	Shares vested during the financial year	Balance as at 30.06.2023
EMCO members					
Mr Loh Boon Chye ⁽²⁾	152,900	152,900	54,600	(207,500)	_
Mr Tan Boon Gin ⁽²⁾	42,600	42,600	15,200	(57,800)	_
Mr Syn Hsien-Min Michael ⁽²⁾	41,200	41,200	14,700	(55,900)	_
Ms Agnes Koh	24,800	24,800	8,900	(33,700)	_
Ms Tinku Gupta	24,800	24,800	8,900	(33,700)	_
Mr Arulraj Maria Devadoss	17,400	17,400	6,200	(23,600)	_
Other recipients					
Mr Muthukrishnan Ramaswami ⁽²⁾⁽³⁾	62,500	62,500	22,300	(84,800)	_
Mr Chew Sutat ⁽²⁾⁽⁴⁾	48,000	48,000	17,100	(65,100)	_
Others	282,300	240,000	86,000	(326,000)	_
	696,500	654,200	233,900	(888,100)	_

⁽¹⁾ The shares to be awarded at the vesting date may range from 0% to 150% of the grant, depending on the level of achievement against the performance conditions. The achievement level for FY2019 grant is at 135.7%, hence the number of shares vested exceeds the number of shares granted.

⁽²⁾ Received more than 5% of the shares granted.

⁽³⁾ Mr Muthukrishnan Ramaswami retired as SGX's President and his last day of service was 30 September 2019. As approved by the RSDC, he will continue to be eligible to receive the grant at the vesting date, subject to the level of achievement against the performance conditions.

⁽⁴⁾ Mr Chew Sutat retired as SGX's Head of Global Sales & Origination and his last day of service was 31 July 2021. As approved by the RSDC, he will continue to be eligible to receive the grant at the vesting date, subject to the level of achievement against the performance conditions.

(a) SGX Performance Share Plan (continued)

Share grant and vesting (continued)

(ii) FY2020 Grant under SGX PSP 2015

The number of SGX shares to be awarded to each participant will be based on the achievement of prescribed performance targets over a three-year performance period from 1 July 2019 to 30 June 2022. An estimated 960,100 performance shares will vest on 1 September 2023.

Participants (as defined under SGX Performance Share Plan)	Shares granted at grant date ⁽¹⁾	Balance as at 01.07.2022	Shares lapsed during the financial year	Balance as at 30.06.2023
EMCO members				
Mr Loh Boon Chye ⁽²⁾	155,800	155,800	_	155,800
Mr Syn Hsien-Min Michael ⁽²⁾	46,200	46,200	_	46,200
Mr Tan Boon Gin ⁽²⁾	39,000	39,000	_	39,000
Ms Tinku Gupta	25,600	25,600	_	25,600
Ms Agnes Koh	25,000	25,000	_	25,000
Mr Arulraj Maria Devadoss	17,000	17,000	_	17,000
Other recipients				
Mr Muthukrishnan Ramaswami ⁽²⁾⁽³⁾	58,400	58,400	_	58,400
Mr Chew Sutat ⁽²⁾⁽⁴⁾	40,300	40,300	_	40,300
Others	303,700	261,500	(9,500)	252,000
	711,000	668,800	(9,500)	659,300

Represents the number of shares required if participants are to be awarded at 100% of the grant. However, the shares to be awarded at the vesting date may range from 0% to 150% of the grant, depending on the level of achievement against the performance conditions.

⁽²⁾ Received more than 5% of the shares granted.

⁽³⁾ Mr Muthukrishnan Ramaswami retired as SGX's President and his last day of service was 30 September 2019. As approved by the RSDC, he will continue to be eligible to receive the grant at the vesting date, subject to the level of achievement against the performance conditions.

⁽⁴⁾ Mr Chew Sutat retired as SGX's Head of Global Sales & Origination and his last day of service was 31 July 2021. As approved by the RSDC, he will continue to be eligible to receive the grant at the vesting date, subject to the level of achievement against the performance conditions.

(a) SGX Performance Share Plan (continued)

Share grant and vesting (continued)

(iii) FY2021 Grant under SGX PSP 2015

The number of SGX shares to be awarded to each participant will be based on the achievement of prescribed performance targets over a three-year performance period from 1 July 2020 to 30 June 2023. The performance shares will vest on 1 September 2024.

Shares granted at grant date ⁽¹⁾	Balance as at 01.07.2022	Shares lapsed during the financial year	Balance as at 30.06.2023
161,200	161,200	_	161,200
42,600	42,600	_	42,600
41,100	41,100	_	41,100
39,500	39,500	_	39,500
27,400	27,400	_	27,400
26,200	26,200	_	26,200
17,600	17,600	_	17,600
39,500	39,500	_	39,500
337,100	280,900	(8,900)	272,000
732,200	676,000	(8,900)	667,100
	granted at grant date ⁽¹⁾ 161,200 42,600 41,100 39,500 27,400 26,200 17,600 39,500 337,100	granted at grant date ⁽¹⁾ 161,200	Shares granted at grant date ⁽¹⁾ Balance as at older (as at grant date) Iapsed during the financial year 161,200 161,200 — 42,600 42,600 — 41,100 41,100 — 27,400 27,400 — 26,200 26,200 — 17,600 17,600 — 39,500 39,500 — 39,500 280,900 (8,900)

Represents the number of shares required if participants are to be awarded at 100% of the grant. However, the shares to be awarded at the vesting date may range from 0% to 150% of the grant, depending on the level of achievement against the performance conditions.

⁽²⁾ Received more than 5% of the shares granted.

⁽³⁾ Mr Chew Sutat retired as SGX's Head of Global Sales & Origination and his last day of service was 31 July 2021. As approved by the RSDC, he will continue to be eligible to receive the grant at the vesting date, subject to the level of achievement against the performance conditions.

(a) SGX Performance Share Plan (continued)

Share grant and vesting (continued)

(iv) FY2022 Grant under SGX PSP 2015

The number of SGX shares to be awarded to each participant will be based on the achievement of prescribed performance targets over a three-year performance period from 1 July 2021 to 30 June 2024. The performance shares will vest on 1 September 2025.

Participants (as defined under SGX Performance Share Plan)	Shares granted at grant date ⁽¹⁾	Balance as at 01.07.2022	Shares lapsed during the financial year	Balance as at 30.06.2023
EMCO members				
Mr Loh Boon Chye ⁽²⁾	135,700	135,700	_	135,700
Mr Syn Hsien-Min Michael ⁽²⁾	40,100	40,100	_	40,100
Mr Lee Beng Hong ⁽²⁾	34,400	34,400	_	34,400
Mr Tan Boon Gin ⁽²⁾	33,200	33,200	_	33,200
Ms Tinku Gupta	22,900	22,900	_	22,900
Ms Agnes Koh	21,800	21,800	_	21,800
Mr Ng Yao Loong	18,300	18,300	_	18,300
Mr Arulraj Maria Devadoss	15,400	15,400	_	15,400
Other recipients	243,100	213,500	(5,500)	208,000
	564,900	535,300	(5,500)	529,800

Represents the number of shares required if participants are to be awarded at 100% of the grant. However, the shares to be awarded at the vesting date may range from 0% to 150% of the grant, depending on the level of achievement against the performance conditions.

⁽²⁾ Received more than 5% of the shares granted.

(a) SGX Performance Share Plan (continued)

Share grant and vesting (continued)

(v) FY2023 Grant under SGX PSP 2015

The number of SGX shares to be awarded to each participant will be based on the achievement of prescribed performance targets over a three-year performance period from 1 July 2022 to 30 June 2025. The performance shares will vest on 1 September 2026.

Participants (as defined under SGX Performance Share Plan)	Shares granted during financial year	Shares lapsed during the financial year	Balance as at 30.06.2023 ⁽¹⁾
EMCO members			
Mr Loh Boon Chye ⁽²⁾	156,800	_	156,800
Mr Syn Hsien-Min Michael ⁽²⁾	49,700	_	49,700
Mr Lee Beng Hong ⁽²⁾	44,400	_	44,400
Mr Tan Boon Gin ⁽²⁾	39,200	_	39,200
Mr Pol de Win	31,400	_	31,400
Ms Tinku Gupta	28,200	_	28,200
Ms Agnes Koh	26,800	_	26,800
Mr Ng Yao Loong	24,800	_	24,800
Mr Arulraj Maria Devadoss	18,300	_	18,300
Other recipients	295,500	_	295,500
	715,100	_	715,100

⁽¹⁾ Represents the number of shares required if participants are to be awarded at 100% of the grant. However, the shares to be awarded at the vesting date may range from 0% to 150% of the grant, depending on the level of achievement against the performance conditions.

⁽²⁾ Received more than 5% of the shares granted.

(a) SGX Performance Share Plan (continued)

Share grant and vesting (continued)

(vi) Summary of SGX Performance Share Plan under SGX PSP 2015

Summary of the total number of shares granted, lapsed, vested and outstanding as at 30 June 2023 is as follows:

Participants who received more than 5% of the total grants available	Shares granted during financial year	Additional shares from higher achievement level	of SGX Performance	Aggregate shares lapsed since commencement of SGX Performance Share Plan to 30.06.2023	Aggregate shares vested since commencement of SGX Performance Share Plan to 30.06.2023	Aggregate shares outstanding as at 30.06.2023
Mr Loh Boon Chye Mr Syn Hsien-Min	156,800	54,600	1,098,000	(97,700)	(390,800)	609,500
Michael Mr Muthukrishnan	49,700	14,700	347,500	(64,000)	(106,400)	177,100
Ramaswami ⁽¹⁾	-	22,300	319,600	(97,600)	(163,600)	58,400
Participants who received less than 5% of the total grants available						
Other recipients	508,600	142,300	3,748,800	(967,500)	(1,055,000)	1,726,300
=	715,100	233,900	5,513,900	(1,226,800)	(1,715,800)	2,571,300

Mr Muthukrishnan Ramaswami retired as SGX's President and his last day of service was 30 September 2019. As approved by the RSDC, he will continue to be eligible to receive the grant at the vesting date, subject to the level of achievement against the performance conditions.

For the financial year ended 30 June 2023

Share plans (continued)

(b) SGX Deferred Long-Term Incentives Scheme

The SGX Deferred Long-Term Incentives Scheme ("SGX DLTIS") was approved by the RSDC in July 2006. The objective of the SGX DLTIS is to retain key employees whose contributions are essential to the long-term growth and profitability of the SGX Group and attract potential employees with relevant skills to contribute to the SGX Group and to create value for its shareholders.

Eligibility

Selected executives who have attained the rank of Assistant Vice President and above are eligible to be considered for the award under the SGX DLTIS.

Fully paid SGX shares, their equivalent cash value or combinations thereof will be awarded to eligible employees and vest upon expiry of the prescribed vesting period(s). The amount released, if in the form of cash, is based on the market value of such shares on vesting date.

Unless otherwise decided by the RSDC, the entitlement to the award is conditional on the recipient remaining in service up to the specified vesting date.

(b) SGX Deferred Long-Term Incentives Scheme (continued)

Share grant and vesting

(i) FY2020 Award

The FY2020 Award is in the form of SGX shares. The award will vest in three equal instalments over a period of three years with the first instalment vested on 1 September 2020 and the final instalment vested on 1 September 2022.

Recipients (as defined under SGX Deferred Long-Term Incentives Scheme)	Shares awarded at grant date	Balance as at 01.07.2022	Shares lapsed during financial year	Shares vested during financial year	Balance as at 30.06.2023
EMCO members					
Mr Loh Boon Chye ⁽¹⁾	155,800	51,934	_	(51,934)	_
Mr Syn Hsien-Min					
Michael	46,200	15,400	_	(15,400)	_
Mr Tan Boon Gin	39,000	13,000	_	(13,000)	_
Ms Tinku Gupta	25,600	8,534	_	(8,534)	_
Ms Agnes Koh	25,000	8,334	_	(8,334)	_
Mr Arulraj Maria					
Devadoss	17,000	5,668	_	(5,668)	_
Other recipients	1,137,600	317,794	(1,000)	(316,794)	<u> </u>
	1,446,200	420,664	(1,000)	(419,664)	_

⁽¹⁾ Received more than 5% of the shares awarded.

(b) SGX Deferred Long-Term Incentives Scheme (continued)

Share grant and vesting (continued)

(ii) FY2021 Award

The FY2021 Award is in the form of SGX shares. The award will vest in three equal instalments over a period of three years with the first instalment vested on 1 September 2021.

	Shares awarded at grant date	Balance as at 01.07.2022	Shares lapsed during financial year	Shares vested during financial year	Balance as at 30.06.2023
Recipients (as defined under SGX Deferred Long-Term Incentives Scheme)					
EMCO members					
Mr Loh Boon Chye ⁽¹⁾	161,200	107,467	_	(53,733)	53,734
Mr Lee Beng Hong	42,600	28,400	_	(14,200)	14,200
Mr Syn Hsien-Min					
Michael	41,100	27,400	_	(13,700)	13,700
Mr Tan Boon Gin	39,500	26,334	_	(13,166)	13,168
Ms Tinku Gupta	27,400	18,267	_	(9,133)	9,134
Ms Agnes Koh	26,200	17,467	_	(8,733)	8,734
Mr Arulraj Maria					
Devadoss	17,600	11,734	_	(5,866)	5,868
Other recipients	1,121,200	638,461	(15,942)	(318,273)	304,246
	1,476,800	875,530	(15,942)	(436,804)	422,784

⁽¹⁾ Received more than 5% of the shares awarded.

(b) SGX Deferred Long-Term Incentives Scheme (continued)

Share grant and vesting (continued)

(iii) FY2022 Award

The FY2022 Award is in the form of SGX shares. The award will vest in three equal instalments over a period of three years with the first instalment vested on 1 September 2022.

Recipients (as defined under SGX Deferred Long-Term Incentives Scheme)	Shares awarded at grant date	Balance as at 01.07.2022	Shares lapsed during financial year	Shares vested during financial year	Balance as at 30.06.2023
EMCO members					
Mr Loh Boon Chye ⁽¹⁾	135,700	135,700	_	(45,233)	90,467
Mr Syn Hsien-Min					
Michael	40,100	40,100	_	(13,366)	26,734
Mr Lee Beng Hong	34,400	34,400	_	(11,466)	22,934
Mr Tan Boon Gin	33,200	33,200	_	(11,066)	22,134
Ms Tinku Gupta	22,900	22,900	_	(7,633)	15,267
Ms Agnes Koh	21,800	21,800	_	(7,266)	14,534
Mr Ng Yao Loong	18,300	18,300	_	(6,100)	12,200
Mr Arulraj Maria					
Devadoss	15,400	15,400	_	(5,133)	10,267
Other recipients	847,100	770,700	(25,304)	(255,458)	489,938
	1,168,900	1,092,500	(25,304)	(362,721)	704,475

⁽¹⁾ Received more than 5% of the shares awarded.

(b) SGX Deferred Long-Term Incentives Scheme (continued)

Share grant and vesting (continued)

(iv) FY2023 Award

The FY2023 Award is in the form of SGX shares. The award will vest in three equal instalments over a period of three years with the first instalment vesting on 1 September 2023.

Recipients (as defined under SGX Deferred Long- Term Incentives Scheme)	Shares awarded at grant date	Shares lapsed during financial year	Balance as at 30.06.2023
EMCO members			
Mr Loh Boon Chye ⁽¹⁾	156,800	_	156,800
Mr Syn Hsien-Min Michael	49,700	_	49,700
Mr Lee Beng Hong	44,400	_	44,400
Mr Tan Boon Gin	39,200	_	39,200
Mr Pol de Win	31,400	_	31,400
Ms Tinku Gupta	28,200	_	28,200
Ms Agnes Koh	26,800	_	26,800
Mr Ng Yao Loong	24,800	_	24,800
Mr Arulraj Maria Devadoss	18,300	_	18,300
Other recipients	1,049,400	(40,800)	1,008,600
	1,469,000	(40,800)	1,428,200

⁽¹⁾ Received more than 5% of the shares awarded.

(b) SGX Deferred Long-Term Incentives Scheme (continued)

Share grant and vesting (continued)

(v) Summary of SGX Deferred Long-Term Incentives Scheme

Summary of the total number of shares awarded, lapsed, vested and outstanding as at 30 June 2023 is as follows:

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		Aggregate	Aggregate	Aggregate	
		shares	shares	shares	
		awarded since	lapsed since	vested since	
		commencement	commencement	commencement	
		of SGX	of SGX	of SGX	
	Shares	Deferred	Deferred	Deferred	Aggregate
	awarded	Long-Term	Long-Term	Long-Term	shares
	during	Incentives	Incentives	Incentives	outstanding
	financial	Scheme to	Scheme to	Scheme to	as at
	year	30.06.2023	30.06.2023	30.06.2023	30.06.2023
Recipient who received more than 5% of the total grants available					
Mr Loh Boon Chye	156,800	1,031,400	_	(730,399)	301,001
Recipients who received less than 5% of the total awards available					
Other recipients	1,312,200	15,058,300	(1,399,069)	(11,404,773)	2,254,458
	1,469,000	16,089,700	(1,399,069)	(12,135,172)	2,555,459

(c) SGX Restricted Share Plan

The SGX Restricted Share Plan ("SGX RSP") was adopted at the annual general meeting of the Company held on 20 September 2018 to:

- (i) Grant shares to the Group non-executive directors as part of their remuneration in respect of their office as such in lieu of cash, or where, the RSDC deems appropriate, to give recognition to the contributions made or to be made by such Group non-executive directors to the success of the Group, in order to improve the alignment of the interests of Group nonexecutive directors with the interests of shareholders; and
- (ii) Serve as an additional motivational tool to recruit and retain Group employees whose contributions are essential to the long-term growth and profitability of the Group and to give recognition to outstanding Group employees who have contributed to the growth of the Group. The SGX RSP will act as an enhancement to the Group's overall ability to attract and retain high performing talent.

(c) SGX Restricted Share Plan (continued)

Eligibility

Non-executive directors meeting the criteria set out below under "Share grant and vesting" and employees of the Group are eligible to participate in the SGX RSP.

Share grant and vesting

For shares granted under the SGX RSP to non-executive directors of the Group, the non-executive director is required to have served on the board of directors for at least 12 months on the date of grant of the share awards. The grant will consist of fully paid shares with no performance conditions attached and no vesting period imposed. A moratorium on sale of such shares for a period of up to one year after the grant of the award is imposed. The moratorium will be lifted if the non-executive director steps off the board of directors before the end of the moratorium period.

For shares granted under the SGX RSP to employees, while there are no performance conditions, these shares are subject to vesting period(s) as may be determined on a case-by-case basis.

(i) FY2023 Award

In FY2023, the Group Chairman's fees were delivered entirely in cash and approximately one-quarter of eligible non-executive directors' basic fees were delivered in SGX shares, with approximately three-quarters being paid in cash.

Recipients (as defined under SGX Restricted Share Plan)	Shares awarded at grant date	Shares vested during financial year	Balance as at 30.06.2023
Non-Executive Directors ⁽¹⁾			
Ms Chew Gek Khim	2,147	(2,147)	_
Mr Lim Chin Hu	2,147	(2,147)	_
Professor Subra Suresh	2,147	(2,147)	_
Mr Mark Makepeace	2,147	(2,147)	_
Mr Yeoh Oon Jin	2,147	(2,147)	
	10,735	(10,735)	_

⁽¹⁾ All recipients received more than 5% of the shares awarded

(c) SGX Restricted Share Plan (continued)

(ii) Summary of SGX Restricted Share Plan

Summary of the total number of shares awarded and vested as at 30 June 2023 is as follows:

	Shares awarded during financial year	Aggregate shares awarded since commencement of SGX restricted share plan to 30.06.2023	Aggregate shares vested since commencement of SGX restricted share plan to 30.06.2023	Aggregate shares outstanding as at 30.06.2023
Recipients who received				
more than 5% of the total				
grants available				
Mr Kwa Chong Seng ⁽¹⁾	_	109,584	(109,584)	_
Ms Chew Gek Khim	2,147	10,982	(10,982)	_
Mr Lim Chin Hu	2,147	10,982	(10,982)	_
Mr Kevin Kwok ⁽²⁾	_	8,835	(8,835)	_
Recipients who received less				
than 5% of the total				
grants available				
Professor Subra Suresh	2,147	8,405	(8,405)	_
Mr Mark Makepeace	2,147	4,099	(4,099)	_
Mr Yeoh Oon Jin	2,147	2,147	(2,147)	_
Other recipients		13,766	(13,766)	
	10,735	168,800	(168,800)	_

⁽¹⁾ Mr Kwa Chong Seng stepped down as SGX's Board Chairman on 31 December 2022.

⁽²⁾ Mr Kevin Kwok stepped down as SGX's Non-Executive Director on 6 October 2022.

Audit Committee

The Audit Committee ("AC") comprises the following non-executive directors at the date of this statement:

Mr Yeoh Oon Jin (Chairman)
Ms Julie Gao
Mr Koh Boon Hwee
Mr Lim Chin Hu

Based on the criteria prescribed in the Securities and Futures (Corporate Governance of Approved Exchanges, Approved Clearing Houses and Approved Holding Companies) Regulations 2005 (SFR 2005), and the Code of Corporate Governance 2018 (CCG 2018), all of the AC members are independent.

The AC carried out its functions in accordance with Section 201B (5) of the Singapore Companies Act, Regulation 14(2) of the SFR 2005, the CCG 2018 and the Singapore Exchange Securities Trading Limited ("SGX-ST") Listing Manual. These functions include a review of the financial statements of the Group and of the Company for the financial year and the independent auditors' report thereon.

Accordingly, the AC has also undertaken a review of the nature and extent of non-audit services provided by the firm acting as the auditor. In the opinion of the AC, these services would not affect the independence of the auditor.

The AC has recommended to the Board that the independent auditor, KPMG LLP be nominated for re-appointment at the forthcoming Annual General Meeting.

In appointing the auditor of the Company and the subsidiaries, the Group has complied with Rule 712 and Rule 715 of the SGX-ST Listing Manual.

Independent Auditor

The independent auditor, KPMG LLP, has indicated its willingness to accept re-appointment.

On behalf of the Board of Directors

Mr Koh Boon Hwee

Director

16 August 2023

Mr Loh Boon Chye

Director



KPMG LLP 12 Marina View #15-01 Asia Square Tower 2 Singapore 018961

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Independent auditors' report

Members of the Company Singapore Exchange Limited

Report on the audit of the financial statements

Opinion

We have audited the financial statements of Singapore Exchange Limited ("the Company") and its subsidiaries ("the Group"), which comprise the consolidated statement of financial position of the Group and the statement of financial position of the Company as at 30 June 2023, the consolidated statement of comprehensive income, consolidated statement of changes in equity and consolidated statement of cash flows of the Group and the statement of comprehensive income and statement of changes in equity of the Company for the year then ended, and notes to the financial statements, including a summary of significant accounting policies, as set out on pages FS1 to FS123.

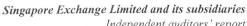
In our opinion, the accompanying consolidated financial statements of the Group and the statement of financial position, statement of comprehensive income and statement of changes in equity of the Company are properly drawn up in accordance with the provisions of the Companies Act 1967 ("the Act") and Singapore Financial Reporting Standards (International) ("SFRS(I)s") so as to give a true and fair view of the consolidated financial position of the Group and the financial position of the Company as at 30 June 2023 and of the consolidated financial performance, consolidated changes in equity and consolidated cash flows of the Group and the financial performance and changes in equity of the Company for the year ended on that date.

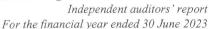
Basis for opinion

We conducted our audit in accordance with Singapore Standards on Auditing ("SSAs"). Our responsibilities under those standards are further described in the 'Auditors' responsibilities for the audit of the financial statements' section of our report. We are independent of the Group in accordance with the Accounting and Corporate Regulatory Authority Code of Professional Conduct and Ethics for Public Accountants and Accounting Entities ("ACRA Code") together with the ethical requirements that are relevant to our audit of the financial statements in Singapore, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the ACRA Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key audit matters

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







Impairment of Goodwill (Refer to Note 23 to the financial statements)

The key audit matter

How the matter was addressed in our audit

Included in the Group's financial statements at 30 June 2023 is goodwill arising from business combinations of \$703 million.

The Group performs an impairment testing of the carrying amount of goodwill annually or more frequently if there is an indication of impairment. Goodwill is impaired if the carrying amount of the cash generating units ("CGUs"), including goodwill, is not supported by the respective recoverable amount.

The recoverable amounts are determined based on the value-in-use method, estimated using discounted cash flows. In deriving the value-in-use, significant judgement and estimation are made by management in its:

- forecast of the future cash flows;
- estimation of the terminal growth rates;
 and
- determination of the applicable discount rates.

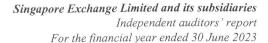
We assessed the appropriateness of the CGUs identified by management, considering our understanding of the Group's business, its operations and structure.

Together with our valuation specialists, we assessed management's estimate of the recoverable amounts of the respective CGUs, including:

- evaluating the reasonableness of management's future cash flow forecasts, by comparing the forecasts against historical results, Board approved forecasts, business plans, economic outlook and industry trends;
- assessing the data sources used by management in deriving its expectations of terminal growth rates, and comparing the growth rates against long-term inflation rates based on the CGU's country of operation; and
- independently determining the discount rates based on external observable data sources for risk-free rate, beta, market risk premium and any size premium and, comparing these against management's discount rates.

We performed sensitivity analysis of the key assumptions used – cash flow forecasts, terminal growth rates and discount rates – to assess the impact of reasonably possible changes in these assumptions on the outcome of the impairment assessment.

We found management's assessment that there is no impairment of the Group's goodwill to be reasonable and supported by the recoverable amounts.





Valuation of financial assets measured at fair value (Refer to Notes 17 and 18 to the financial statements)

The key audit matter

How the matter was addressed in our audit

At 30 June 2023, the Group's financial assets measured at fair value include:

- an unquoted debt security of \$330 million, at fair value through profit or loss; and
- an unquoted equity security of \$155 million, at fair value through other comprehensive income.

These instruments are classified as Level 3 on the fair value hierarchy.

The measurement of these Level 3 financial assets involves significant judgement and estimation, both in determining the valuation methodologies to be applied and in the use of unobservable inputs and assumptions.

We engaged our valuation specialists to evaluate the reasonableness of the methodologies applied and challenge the appropriateness of key inputs and assumptions used, considering comparable companies in the industry. We also considered alternative valuation methods and assessed sensitivities to the key inputs and assumptions.

We found that the fair values of the Group's financial assets were within an acceptable range of estimates.

Other information

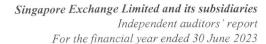
Management is responsible for the other information contained in the annual report. Other information is defined as all information in the annual report other than the financial statements and our auditors' report thereon.

We have obtained the Directors' Statement prior to the date of this auditors' report. The other sections of the annual report ("the Reports") are expected to be made available to us after that date.

Our opinion on the financial statements does not cover the other information and we do not and will not express any form of assurance conclusion thereon.

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

If, based on the work we have performed on the other information that we obtained prior to the date of this auditors' report, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.





When we read the Reports, if we conclude that there is a material misstatement therein, we are required to communicate the matter to those charged with governance and take appropriate actions in accordance with SSAs.

Responsibilities of management and directors for the financial statements

Management is responsible for the preparation of financial statements that give a true and fair view in accordance with the provisions of the Act and SFRS(I)s, and for devising and maintaining a system of internal accounting controls sufficient to provide a reasonable assurance that assets are safeguarded against loss from unauthorised use or disposition; and transactions are properly authorised and that they are recorded as necessary to permit the preparation of true and fair financial statements and to maintain accountability of assets.

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

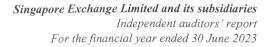
The directors' responsibilities include overseeing the Group's financial reporting process.

Auditors' responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SSAs 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 financial statements.

As part of an audit in accordance with SSAs, we exercise professional judgement and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the 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 our 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 controls.
- Obtain an understanding of internal controls 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 internal controls.



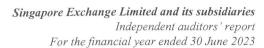


- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditors' report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditors' report. However, future events or conditions may cause the Group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the 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. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with the directors regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal controls that we identify during our audit.

We also provide the directors with a statement that we 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 our independence, and where applicable, related safeguards.

From the matters communicated with the directors, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditors' report unless the law or regulations preclude public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.





Report on other legal and regulatory requirements

In our opinion, the accounting and other records required by the Act to be kept by the Company and by those subsidiaries incorporated in Singapore of which we are the auditors have been properly kept in accordance with the provisions of the Act.

The engagement partner on the audit resulting in this independent auditors' report is Leong Kok Keong.

KPMG LLP

Public Accountants and Chartered Accountants

While Ll

Singapore

16 August 2023

Statement of comprehensive income For the financial year ended 30 June 2023

		Gro	up	Company		
	Note	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	
Operating revenue						
Fixed Income, Currencies and						
Commodities	4	338,166	252,745	_	_	
Equities	4	709,183	698,867	_	=	
Data, Connectivity and Indices Management fees from subsidiaries	4	147,059	147,429	34,822	30,136	
Dividends from subsidiaries		_	_	247,880	238,391	
Dividends from subsidiaries	-	1,194,408	1,099,041	446,500 729,202	388,080 656,607	
	-	1,194,408	1,099,041	729,202	030,007	
Operating expenses Staff	5	276,159	250,954	150,313	136,552	
	<i>5</i>	88,094	81,343	50,458	48,889	
Technology Processing and royalties	O	73,116	69,216	1,654	48,889 782	
Premises	7	9,801	9,997	5,844	5,650	
Professional fees	,	18,344	15,788	9,056	6,301	
Others	8	41,029	37,637	22,650	23,023	
Others	-	506,543	464,935	239,975	221,197	
Earnings before interest, tax, depreciation and amortisation		687,865	634,106	489,227	435,410	
Depreciation and amortisation	9	98,322	96,658	35,674	35,681	
Depreciation and amortisation		70,322	70,030	33,071	33,001	
Operating profit	10	589,543	537,448	453,553	399,729	
Non-operating items						
Other income (net)	11	92,008	13,146	20,525	13,516	
Interest income	11	28,096	3,310	3,899	633	
Finance charges	11	(7,251)	(7,384)	(5,583)	(5,681)	
Net foreign exchange						
(losses)/gains	11	(1,391)	8,602	6,537	16	
Impairment losses on non-						
financial assets	11	(11,626)	_	_	_	
	_	99,836	17,674	25,378	8,484	

Statement of comprehensive income (continued) For the financial year ended 30 June 2023

		Grou	p	Company			
	Note	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000		
Profit before tax and share of results of associated companies and joint ventures		689,379	555,122	478,931	408,213		
Share of results of associated companies and joint ventures, net of tax	26, 27	(15,557)	(10,534)	_	_		
		(- , ,	(/				
Profit before tax		673,822	544,588	478,931	408,213		
Tax	32	(103,257)	(92,687)	(2,148)	(3,503)		
Net profit after tax	_	570,565	451,901	476,783	404,710		
Attributable to: Equity holders of the Company		570,895	451,398	476,783	404,710		
Non-controlling interests		(330)	503		<u> </u>		
Earnings per share based on net profit after tax attributable to the equity holders of the Company (in cents)	_						
Basic	12	53.4	42.2				
Diluted	12	51.8	41.0				

Statement of comprehensive income (continued) For the financial year ended 30 June 2023

	Grou	ıp	Comp	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Net profit after tax	570,565	451,901	476,783	404,710
Other comprehensive income Items that may be reclassified subsequently to profit or loss:				
Foreign exchange translation - Exchange differences arising during the year	(10,095)	(13)	_	-
Cash flow hedges - Fair value losses arising during the year - Transferred to profit or loss	(109) 626	(2,260) 1,112	_ _	_ _
Financial assets, at FVOCI - Fair value losses arising during the year	(267)	(936)	_	-
Items that will not be reclassified subsequently to profit or loss:				
Financial assets, at FVOCI - Fair value (losses)/gains arising during the year	(61,634)	65,487	_	-
Foreign exchange translation - Exchange differences arising during the year	39	(305)	-	
Other comprehensive income for the financial year, net of tax	(71,440)	63,085	_	
Total comprehensive income for the financial year	499,125	514,986	476,783	404,710
Total comprehensive income				
attributable to: Equity holders of the Company Non-controlling interests	499,416 (291)	514,788 198	476,783 _	404,710

Statement of financial position As at 30 June 2023

		Gro	і р	Company					
	Note	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000				
Assets		+	7	7	,				
Current assets									
Cash and cash equivalents	13	1,033,183	997,747	130,098	85,520				
Trade and other									
receivables	14	1,111,368	1,060,820	179,141	154,027				
Derivative financial									
instruments	16	1,008	17	_	_				
Financial assets, at									
FVOCI	17	33,917	94,155	_					
	· · · · · · · · · · · · · · · · · · ·	2,179,476	2,152,739	309,239	239,547				
Non-current assets									
Financial assets, at	4.5	1.60.010	220.054						
FVOCI	17	162,919	239,064	_	_				
Financial assets, at FVPL	18	353,866	293,545	_	_				
Investment property	19	15,231	18,059	_	_				
Property, plant and									
equipment	19	41,178	34,229	26,362	19,479				
Software	20	151,770	166,304	45,813	42,915				
Right-of-use assets	21	33,931	50,938	28,293	47,359				
Intangible assets	22	91,628	117,796	_	_				
Goodwill	23	702,865	708,290	_	_				
Investments in									
subsidiaries	25	_	_	1,604,180	1,569,384				
Investments in associated									
companies	26	38,226	47,549	4,389	4,389				
Investments in joint									
ventures	27	10,140	10,542	_	_				
Loan receivable	28	_	9,036	_	9,036				
Other assets	-	109	109	109	109				
		1,601,863	1,695,461	1,709,146	1,692,671				
Total assets		3,781,339	3,848,200	2,018,385	1,932,218				

Statement of financial position (continued) As at 30 June 2023

		Grou	Compa	pany			
	Note	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000		
Liabilities							
Current liabilities							
Trade and other payables	29	1,136,571	1,262,354	237,672	149,363		
Derivative financial		,,	, - ,	,	- ,		
instruments	16	2,599	2,090	_	_		
Loans and borrowings	30	351,883	41,858	1,093	41,858		
Lease liabilities	31	20,470	22,140	18,290	20,201		
Taxation	32	112,812	99,939	4,443	5,678		
Provisions	33	14,012	13,801	8,680	8,711		
	-	1,638,347	1,442,182	270,178	225,811		
Non-current liabilities							
Other payables	29	_	_	_	63,474		
Loans and borrowings	30	340,040	693,935	340,040	350,912		
Lease liabilities	31	14,828	30,938	11,622	29,537		
Deferred tax liabilities	32	55,046	79,468	1,960	1,760		
Other liabilities	34	29,469	52,212	-	-		
	•	439,383	856,553	353,622	445,683		
Total liabilities	-	2,077,730	2,298,735	623,800	671,494		
Net assets		1,703,609	1,549,465	1,394,585	1,260,724		
-	=				· · ·		
Equity Capital and reserves attributable to the Company's equity holders							
Share capital	35	423,056	427,365	423,056	427,365		
Capital reserve	36	3,989	3,989	- (22 447)	- (24.640)		
Treasury shares	35	(32,447)	(34,640)	(32,447)	(34,640)		
Cash flow hedge reserve		(1,232)	(1,749)	_	_		
Currency translation reserve Fair value reserve		(4,432)	5,663	_	_		
		82,211	140,464	_	_		
Securities clearing fund reserve	40	25,000	25,000	_	_		
Derivatives clearing fund	4.1	24.021	24.021				
reserve	41	34,021	34,021	-	20.505		
Share-based payment reserve		30,881	29,595	30,881	29,595		
Other reserve	37	(40,506)	(40,506)	- 002 216	752.065		
Retained profits	38	1,089,582	869,767 85,430	882,316	752,965		
Proposed dividends	30	90,779	85,439	90,779	85,439		
Non-controlling interests		1,700,902 2,707	1,544,408	1,394,585	1,260,724		
Total equity	-	1,703,609	5,057 1,549,465	1,394,585	1,260,724		
Total equity		1,703,009	1,347,403	1,374,303	1,200,724		

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

Consolidated statement of changes in equity For the financial year ended 30 June 2023

		Attributable to equity holders of the Company														
	•							Securities	Derivatives							
Group	Note	Share capital \$'000	Capital reserve \$'000	Treasury shares \$'000	Cash flow hedge reserve* \$'000	Currency translation reserve* \$'000	Fair value reserve* \$'000	clearing fund reserve* \$'000	clearing fund reserve* \$'000	Share-based payment reserve* \$'000	Other reserve* \$'000	Retained profits \$'000	Proposed dividends \$'000	Total \$'000	Non- controlling interests \$'000	Total equity \$'000
Balance at 1 July 2022		427,365	3,989	(34,640)	(1,749)	5,663	140,464	25,000	34,021	29,595	(40,506)	869,767	85,439	1,544,408	5,057	1,549,465
Transactions with equity holders, recognised directly in equity Contributions by and distributions to equity holders Dividends paid - Financial year 2022 – Final																
dividends		-	-	_	-	_	_	-	-	-	-	-	(85,439)	(85,439)	-	(85,439)
 Financial year 2022 – Under provision of final dividends 		_	_	_	_	_	_	_	_	_	_	(163)	_	(163)	_	(163)
 Financial year 2023 – Interim dividends 	38	_	_	_	_	_	_	_	_	_	_	(256,490)	_	(256,490)	_	(256,490)
Proposed dividends - Financial year 2023 – Final																
dividends Employees' share plans – Value of	38	-	-	-	-	-	-	-	-	-	-	(90,779)	90,779	-	-	_
employees' services		-	_	-	_	-	-	-	-	17,780	_	-	-	17,780	_	17,780
Restricted share plan - Value of directors' services		_	_	_	_	_	_	_	_	94	_	_	_	94	_	94
Vesting of shares under share-based remuneration plans	35(a)	(4,303)	_	20,797	_	_	_	_	_	(16,494)	_	_	_	_	_	_
Vesting of shares under restricted share plan	35(a)	(6)	_	100	_	_	_	_	_	(94)	_	_	_	_	_	_
Purchase of treasury shares	35(a)	-	_	(18,613)	_	_	_	_	_	(_	_	_	(18,613)	_	(18,613)
Tax effect on treasury shares**	35(a)	_	_	(91)	_	_	_	_	_	_	_	_	_	(91)	_	(91)
Transfer upon disposal of equity	55(u)			(>1)										(>1)		(>1)
investments		_	_	_	_	_	3,648	_	_	_	_	(3,648)	_	_	_	_
Dividends paid to non-controlling							-,-					(-,,				
interests		_	_	_	_	_	_	_	_	_	_	_	_	_	(2,059)	(2,059)
Total contributions by and																
distributions to equity holders		(4,309)	_	2,193	_	_	3,648	_	_	1,286	_	(351,080)	5,340	(342,922)	(2,059)	(344,981)
Total comprehensive income for the financial year		-	-	-	517	(10,095)	(61,901)	-	-	-	-	570,895	-	499,416	(291)	499,125
Balance at 30 June 2023	•	423,056	3,989	(32,447)	(1,232)	(4,432)	82,211	25,000	34,021	30,881	(40,506)	1,089,582	90,779	1,700,902	2,707	1,703,609

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

Consolidated statement of changes in equity (continued) For the financial year ended 30 June 2023

						Attr	ibutable to e	quity holders	of the Com	pany						
									Derivatives							
Group	Note	Share capital \$'000	Capital reserve \$'000	Treasury shares \$'000	Cash flow hedge reserve* \$'000	Currency translation reserve* \$'000	Fair value reserve* \$'000	clearing fund reserve* \$'000	clearing fund reserve* \$'000	Share-based payment reserve* \$'000	Other reserve* \$'000	Retained profits \$'000	Proposed dividends \$'000	Total \$'000	Non- controlling interests \$'000	Total equity \$'000
Group		2.000	2.000	2.000	2,000	3.000	2.000	3.000	2.000	3.000	2.000	2.000	3.000	2,000	2.000	3.000
Balance at 1 July 2021		430,413	3,989	(25,189)	(601)	5,676	75,913	25,000	34,021	30,152	(40,506)	760,530	85,511	1,384,909	4,859	1,389,768
Transactions with equity holders,																
recognised directly in equity																
Contributions by and distributions																
to equity holders																
Dividends paid																
 Financial year 2021 – Final 																
dividends		_	_	_	_	_	_	_	_	_	_	_	(85,511)	(85,511)	_	(85,511)
 Financial year 2021 – Under 																
provision of final dividends		_	_	_	_	_	_	_	_	_	_	(142)	_	(142)	_	(142)
 Financial year 2022 – Interim 																` ′
dividends	38	_	_	_	_	_	_	_	_	_	_	(256,580)	_	(256,580)	_	(256,580)
Proposed dividends																
 Financial year 2022 – Final 																
dividends	38	_	_	_	_	_	_	_	_	_	_	(85,439)	85,439	_	_	_
Employees' share plans - Value of													,			
employees' services		_	_	_	_	_	_	_	_	14,579	_	_	_	14,579	_	14,579
Restricted share plan - Value of																
directors' services		_	_	_	_	_	_	_	_	326	_	_	_	326	_	326
Vesting of shares under share-based																
remuneration plans	35(a)	(3,021)	_	18,157	_	_	_	_	_	(15,136)	_	_	_	_	_	_
Vesting of shares under restricted	` ′															
share plan	35(a)	(27)	_	353	_	_	_	_	_	(326)	_	_	_	_	_	_
Purchase of treasury shares	35(a)		_	(27,719)	_	_	_	_	_		_	_	_	(27,719)	_	(27,719)
Tax effect on treasury shares**	35(a)	_	_	(242)	_	_	_	_	_	_	_	_	_	(242)	_	(242)
Total contributions by and																
distributions to equity holders		(3,048)		(9,451)						(557)	_	(342,161)	(72)	(355,289)		(355,289)
Total comprehensive income for																
the financial year		_	_	_	(1,148)	(13)	64,551	_	_	_	_	451,398	_	514,788	198	514,986
B. L 4 20 I 2022		425.265	2.000	(24.640)	(1.740)	5.662	140.464	25.000	24.021	20.505	(40.506)	0/0.7/7	05.420	1.744.400	5.055	1 540 465
Balance at 30 June 2022		427,365	3,989	(34,640)	(1,749)	5,663	140,464	25,000	34,021	29,595	(40,506)	869,767	85,439	1,544,408	5,057	1,549,465

Statement of changes in equity For the financial year ended 30 June 2023

	_	Attributable to equity holders of the Company							
Company	Note	Share capital \$'000	Treasury shares \$'000	Share-based payment reserve* \$'000	Retained profits \$'000	Proposed dividends \$'000	Total equity \$'000		
Balance at 1 July 2022		427,365	(34,640)	29,595	752,965	85,439	1,260,724		
Dividends paid									
- Financial year 2022 – Final dividends		_	_	_	_	(85,439)	(85,439)		
- Financial year 2022 – Under provision of final dividends		_	_	_	(163)	_	(163)		
- Financial year 2023 – Interim dividends	38	_	_	_	(256,490)	_	(256,490)		
Proposed dividends							, , ,		
- Financial year 2023 – Final dividends	38	_	_	_	(90,779)	90,779	_		
Employees' share plans – Value of employees' services		_	_	17,780	_	_	17,780		
Restricted share plan – Value of directors' services		_	_	94	_	_	94		
Vesting of shares under share-based remuneration plans	35(a)	(4,303)	20,797	(16,494)	_	_	_		
Vesting of shares under restricted share plan	35(a)	(6)	100	(94)	_	_	_		
Purchase of treasury shares	35(a)	_	(18,613)	_	_	_	(18,613)		
Tax effect on treasury shares**	35(a)	_	(91)	_	_	_	(91)		
		(4,309)	2,193	1,286	(347,432)	5,340	(342,922)		
Total comprehensive income for the financial year		_	_	_	476,783	_	476,783		
Balance at 30 June 2023	_	423,056	(32,447)	30,881	882,316	90,779	1,394,585		

Statement of changes in equity (continued) For the financial year ended 30 June 2023

	_	Attributable to equity holders of the Company							
Company	Note	Share capital \$'000	Treasury shares \$'000	Share-based payment reserve* \$'000	Retained profits \$'000	Proposed dividends \$'000	Total equity \$'000		
Balance at 1 July 2021		430,413	(25,189)	30,152	690,416	85,511	1,211,303		
Dividends paid	Γ								
- Financial year 2021 – Final dividends		_	_	_	_	(85,511)	(85,511)		
- Financial year 2021 – Under provision of final dividends		_	_	_	(142)	_	(142)		
- Financial year 2022 – Interim dividends	38	_	_	_	(256,580)	_	(256,580)		
Proposed dividends									
- Financial year 2022 – Final dividends	38	_	_	_	(85,439)	85,439	_		
Employees' share plans – Value of employees' services		_	_	14,579	_	_	14,579		
Restricted share plan – Value of directors' services		_	_	326	_	_	326		
Vesting of shares under share-based remuneration plans	35(a)	(3,021)	18,157	(15,136)	_	_	_		
Vesting of shares under restricted share plan	35(a)	(27)	353	(326)	_	_	_		
Purchase of treasury shares	35(a)	_	(27,719)	_	_	_	(27,719)		
Tax effect on treasury shares**	35(a)	_	(242)	_	_	_	(242)		
		(3,048)	(9,451)	(557)	(342,161)	(72)	(355,289)		
Total comprehensive income for the financial year		_	-	_	404,710	_	404,710		
Balance at 30 June 2022	_	427,365	(34,640)	29,595	752,965	85,439	1,260,724		

^{*} These reserves are not available for distribution as dividends to the equity holders of the Company.

** The tax effect relates to the deferred tax benefit/(liability) on the difference between consideration paid for treasury shares and share-based payment expense relating to employees' and directors' services.

Consolidated statement of cash flows For the financial year ended 30 June 2023

		Group					
	Note	2023 \$'000	2022 \$'000				
Cash flows from operating activities							
Profit before tax and share of results of associated							
companies and joint ventures		689,379	555,122				
Adjustments for:							
- Depreciation and amortisation	9	98,322	96,658				
- Share-based payment expense		17,874	14,980				
- Finance charges	11	7,251	7,384				
- Net loss on disposal of property, plant and equipment							
and software	8	708	1,832				
- Impairment losses on non-financial assets	11	11,626	_				
- Net fair value gains on financial assets, at FVPL	11	(39,748)	_				
- Interest income		(28,096)	(3,310)				
- Fair value gain on forward liability to acquire non-							
controlling interests	11	(23,306)	_				
- Fair value gain on contingent consideration	11	(14,880)	_				
- Other non-cash income		(10,000)	_				
- Net gains on changes in interests in associated							
companies		(1,707)	(5,289)				
- Grant income for property, plant and equipment and							
software		(111)	_				
- Dividend income from financial assets, at FVOCI	11	_	(897)				
Operating cash flow before working capital change	·	707,312	666,480				
Changes in							
Changes in:							
- Cash committed for National Electricity Market of		(22.501)	(42,020)				
Singapore Coch committed for Singapore Fuchange Devicestives		(23,501)	(43,930)				
- Cash committed for Singapore Exchange Derivatives		(6.704)	25,000				
Clearing Limited – Derivatives Clearing Fund		(6,784)	25,000				
- Cash committed for Securities Clearing Fund		20,000	(211 226)				
- Trade and other receivables		(33,894)	(311,326)				
- Trade and other payables	_	(117,527)	346,397				
Cash generated from operations	20	545,606	682,621				
Income tax paid	32 _	(98,908)	(99,094)				
Net cash generated from operating activities	_	446,698	583,527				

Consolidated statement of cash flows (continued) For the financial year ended 30 June 2023

Cash flows from investing activities24-(166,509)Acquisition of business, net of cash acquired24-(166,509)Purchase of financial assets, at FVPL(4,729)(288,579)Purchase of financial assets, at FVOCI(260,866)(119,479)Purchase of property, plant and equipment and software(54,304)(44,150)Loan to external party-(9,036)Investments in associated companies(13,349)(6,763)Investments in joint ventures(4,731)(7,364)Proceeds from loan repayment from external party9,036-Proceeds from financial assets, at FVOCI322,13555,000Proceeds from sale of long lease of building-31,056Interest received16,4233,378Grant income received for property, plant and
Cash flows from investing activities Acquisition of business, net of cash acquired 24 — (166,509) Purchase of financial assets, at FVPL (4,729) (288,579) Purchase of financial assets, at FVOCI (260,866) (119,479) Purchase of property, plant and equipment and software (54,304) (44,150) Loan to external party — (9,036) Investments in associated companies (13,349) (6,763) Investments in joint ventures (4,731) (7,364) Proceeds from loan repayment from external party 9,036 — Proceeds from financial assets, at FVOCI 322,135 55,000 Proceeds from sale of long lease of building — 31,056 Interest received 16,423 3,378 Grant income received for property, plant and
Acquisition of business, net of cash acquired Purchase of financial assets, at FVPL Purchase of financial assets, at FVOCI Purchase of property, plant and equipment and software Loan to external party Loan to external party Investments in associated companies Investments in joint ventures Proceeds from loan repayment from external party Proceeds from financial assets, at FVOCI Proceeds from sale of long lease of building Interest received Grant income received for property, plant and 1 (166,509) (288,579) (260,866) (119,479) (44,150) (44,150) (6,763) (13,349) (6,763) (7,364) Proceeds from loan repayment from external party Proceeds from financial assets, at FVOCI 322,135 55,000 Proceeds from sale of long lease of building Interest received Grant income received for property, plant and
Purchase of financial assets, at FVPL Purchase of financial assets, at FVOCI Purchase of property, plant and equipment and software Loan to external party Loan to external party Investments in associated companies Investments in joint ventures Investments in joint ventures Proceeds from loan repayment from external party Proceeds from financial assets, at FVOCI Proceeds from sale of long lease of building Interest received Interest received Texture (4,731) Texture (4,731) Texture (4,731) Texture (4,731) Texture (7,364) Texture (4,731) Texture (54,304) Texture (54,304) Texture (4,731) Texture (13,349) Texture (4,731) Texture (13,349) Texture (13
Purchase of financial assets, at FVOCI Purchase of property, plant and equipment and software Loan to external party Investments in associated companies Investments in joint ventures In
Purchase of property, plant and equipment and software Loan to external party Investments in associated companies Investments in joint ventures Proceeds from loan repayment from external party Proceeds from financial assets, at FVOCI Proceeds from sale of long lease of building Interest received The property of the property
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Investments in associated companies (13,349) (6,763) Investments in joint ventures (4,731) (7,364) Proceeds from loan repayment from external party 9,036 — Proceeds from financial assets, at FVOCI 322,135 55,000 Proceeds from sale of long lease of building — 31,056 Interest received 16,423 3,378 Grant income received for property, plant and
Investments in joint ventures (4,731) (7,364) Proceeds from loan repayment from external party 9,036 — Proceeds from financial assets, at FVOCI 322,135 55,000 Proceeds from sale of long lease of building — 31,056 Interest received 16,423 3,378 Grant income received for property, plant and
Proceeds from loan repayment from external party Proceeds from financial assets, at FVOCI Proceeds from sale of long lease of building Interest received Grant income received for property, plant and 9,036 - 322,135 55,000 16,423 3,378
Proceeds from financial assets, at FVOCI Proceeds from sale of long lease of building Interest received Grant income received for property, plant and 322,135 55,000 16,423 3,378
Proceeds from sale of long lease of building Interest received Grant income received for property, plant and - 31,056 16,423 3,378
Interest received 16,423 3,378 Grant income received for property, plant and
Grant income received for property, plant and
equipment and software 1,019 –
Dividend received from associated company 1,710 1,830
Dividend received from financial assets, at FVOCI – 897
Net cash generated from/(used in) investing activities 12,344 (549,719)
Cash flows from financing activities
Dividends paid (344,151) (342,233)
Net proceeds from issue of medium term notes 30 – 334,649
Proceeds from borrowings 30 – 82,014
Purchase of treasury shares 35 (18,613) (27,719)
Repayment of lease liabilities 31 (24,429) (23,142)
Repayment of borrowings 30 (41,241) (129,928)
Interest paid 30 (4,452) (2,340)
Net cash used in financing activities (432,886) (108,699)
Net increase/(decrease) in cash and cash equivalents 26,156 (74,891)
Cash and cash equivalents at beginning of financial year 13 752,153 833,365
Effects of currency translation on cash and cash
equivalents $ (1,005) \qquad (6,321) $
Cash and cash equivalents at end of financial year 13 777,304 752,153

Notes to the financial statements

These notes form an integral part of the financial statements.

The financial statements were authorised for issue by the Board of Directors on 16 August 2023.

1 Domicile and activities

The Company is incorporated and domiciled in Singapore. On 23 November 2000, the Company was admitted to the Official List of Singapore Exchange Securities Trading Limited ("SGX-ST"). The address of the registered office is:

2 Shenton Way #02-02 SGX Centre 1 Singapore 068804

The principal activities of the Group are to operate an integrated securities exchange and derivatives exchange, related clearing houses, operation of an electricity market in Singapore, provision and distribution of bulk freight market indices and information, index administration and related services, operation of electronic foreign exchange trading platforms and investment holding.

The principal activities of the Company are those of investment holding, treasury management, provision of management and administrative services to related corporations, provision of market data and technology connectivity services. The principal activities of the subsidiaries are set out in Note 25 to the financial statements. There has been no significant change in the principal activities of the Company and its subsidiaries during the financial year.

2 Significant accounting policies

2.1 Basis of preparation

These financial statements have been prepared in accordance with Singapore Financial Reporting Standards (International) ("SFRS(I)") under the historical cost convention except as disclosed in the accounting policies below. The preparation of financial statements in conformity with SFRS(I) requires the use of estimates and assumptions, based on management's best knowledge, that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the financial year.

2.1 Basis of preparation (continued)

New standards and amendments

The Group has applied the following amendments to SFRS(I) for the first time for the annual period beginning on 1 July 2022:

- Covid-19-Related Rent Concessions beyond 30 June 2021 (Amendment to SFRS(I) 16)
- Reference to the Conceptual Framework (Amendments to SFRS(I) 3)
- Property, Plant and equipment Proceeds before Intended Use (Amendments to SFRS(I) 1-16)
- Onerous Contracts Cost of Fulfilling a Contract (Amendments to SFRS(I) 37)
- Annual Improvements to SFRS(I)s 2018-2020

The adoption of the amendments to SFRS(I)s did not have significant impact on the financial statements.

2.2 Group accounting

(1) Subsidiaries

(i) Consolidation

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

In preparing the consolidated financial statements, intercompany transactions, balances and unrealised gains and losses on transactions between group companies are eliminated. Unrealised losses are considered an impairment indicator of the asset transferred. Where necessary, adjustments are made to the financial statements of subsidiaries to ensure consistency of accounting policies with those of the Group.

Non-controlling interests comprise the portion of a subsidiary's net results of operations and its net assets, which is attributable to the interests which are not owned directly or indirectly by the equity holders of the Company. They are shown separately in the consolidated statement of comprehensive income, statement of changes in equity and statement of financial position. Total comprehensive income is attributed to the non-controlling interests based on their respective interests in a subsidiary, even if this results in the non-controlling interests having a deficit balance.

2.2 Group accounting (continued)

(1) Subsidiaries (continued)

(ii) Acquisitions

The Group accounts for business combinations using the acquisition method when the acquired set of activities and assets meets the definition of a business and control is transferred to the Group. In determining whether a particular set of activities and assets is a business, the Group assesses whether the set of assets and activities acquired includes, at a minimum, an input and substantive process and whether the acquired set has the ability to produce outputs.

The Group has an option to apply a 'concentration test' that permits a simplified assessment of whether an acquired set of activities and assets is not a business. The optional concentration test is met if substantially all of the fair value of the gross assets acquired is concentrated in a single identifiable asset or group of similar identifiable assets.

The consideration transferred for the acquisition of a subsidiary or business comprises the fair value of the assets transferred, the liabilities incurred and the equity interests issued by the Group. The consideration transferred also includes the fair value of any contingent consideration arrangement and the fair value of any pre-existing equity interest in the subsidiary. If the contingent consideration that meets the definition of a financial instrument is classified as equity, it is not remeasured and settlement is accounted for within equity. Otherwise, other contingent consideration is remeasured at fair value at each reporting date and subsequent changes to the fair value of the contingent consideration are recognised in profit or loss.

Acquisition-related costs are expensed as incurred.

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

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

The excess of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of any previous equity interest in the acquiree over the fair value of the net identifiable assets acquired is recorded as goodwill.

2.2 Group accounting (continued)

(1) Subsidiaries (continued)

(iii) Disposals

When a change in the Group's ownership interest in a subsidiary results in a loss of control over the subsidiary, the assets and liabilities of the subsidiary including any goodwill are derecognised. Amounts previously recognised in other comprehensive income in respect of that entity are also reclassified to profit or loss or transferred directly to retained profits if required by a specific SFRS(I).

Any retained interest in the entity is remeasured at fair value. The difference between the carrying amount of the retained interest at the date when control is lost and its fair value is recognised in profit or loss.

(iv) Transactions with non-controlling interests

Changes in the Group's ownership interest in a subsidiary that do not result in a loss of control over the subsidiary are accounted for as transactions with equity owners of the Company. Any difference between the change in the carrying amounts of the non-controlling interest and the fair value of the consideration paid or received is recognised within equity attributable to the equity holders of the Company.

(2) Associated companies and joint ventures

Associated companies are entities over which the Group has significant influence, but not control, generally accompanied by a shareholding giving rise to voting rights of 20% and above but not exceeding 50%. Where the voting rights are less than 20%, the presumption that the entity is not an associated company is overcome if the Group has significant influence including representation on the board of directors or participation in policy-making process of the investee.

Joint ventures are entities over which the Group has joint control as a result of contractual arrangements, and the rights to the net assets of the entities.

Investments in associated companies and joint ventures are accounted for in the consolidated financial statements using the equity method of accounting less impairment losses, if any.

(i) Acquisitions

Investments in associated companies and joint ventures are initially recognised at cost. The cost of an acquisition is measured at the fair value of the assets given, equity instruments issued or liabilities incurred or assumed at the date of exchange, plus costs directly attributable to the acquisition. Goodwill on associated companies and joint ventures represents the excess of the cost of acquisition of the associated company or joint venture over the Group's share of fair value of the identifiable net assets of the associated company or joint venture and is included in the carrying amount of the investments.

2.2 Group accounting (continued)

(2) Associated companies and joint ventures (continued)

(ii) Equity method of accounting

In applying the equity method of accounting, the Group's share of its associated companies' or joint ventures' post-acquisition profits or losses are recognised in profit or loss and its share of post-acquisition other comprehensive income is recognised in other comprehensive income. These post-acquisition movements and distribution received from associated companies or joint ventures are adjusted against the carrying amounts of the investments. Dividends received or recoverable from the associated companies or joint ventures are recognised as a reduction of the carrying amount of the investments. When the Group's share of losses in an associated company or joint venture equals or exceeds its interest in the associated company or joint venture, the Group does not recognise further losses, unless it has obligations or has made payments on behalf of the associated company or joint venture.

Unrealised gains on transactions between the Group and its associated companies or joint ventures are eliminated to the extent of the Group's interest in the associated companies or joint ventures. Unrealised losses are also eliminated unless the transactions provide evidence of an impairment of the assets transferred. Where necessary, adjustments are made to bring the accounting policies in line with those of the Group.

(iii) Disposals

Investments in associated companies or joint ventures are derecognised when the Group loses significant influence or joint control. Any retained interest in the entity, if classified as a financial asset, is remeasured at its fair value. The difference between the carrying amount of the retained interest at the date when significant influence or joint control is lost and its fair value and any proceeds on partial disposal, is recognised in profit or loss.

(3) Put and call options with non-controlling interests

When the Group enters into a put and call option agreement with the non-controlling shareholder in an existing subsidiary on their equity interests in that subsidiary and provides for settlement in cash or in another financial asset by the Group, the Group recognises a financial liability for the present value of the exercise price of the option and a corresponding entry under equity - other reserve. Subsequent to initial recognition of the financial liability, changes in the carrying amount of the financial liability is recognised in profit or loss. Amount initially recognised under equity is not subsequently re-measured.

When the non-controlling shareholder continues to have present access to the returns associated with the underlying ownership interest, the Group has elected the present-access method to account for the underlying non-controlling interests. Under this method, non-controlling interests continue to be recognised because the non-controlling shareholders still have present access to the returns associated with the underlying ownership interests.

2.2 Group accounting (continued)

(3) Put and call options with non-controlling interests (continued)

On exercise of the put or call option, the financial liability will be derecognised on settlement in cash or in another financial asset by the Group. Changes in the Group's ownership interest in a subsidiary is accounted for according to transaction with non-controlling interests. Refer to Note 2.2(1)(iv).

If the put and call options expire unexercised, the financial liability is reversed against equity – other reserve.

2.3 Currency translation

(1) Functional and presentation currency

Items included in the financial statements of each entity in the Group are measured using the currency of the primary economic environment in which the entity operates ("functional currency"). The financial statements are presented in Singapore Dollars ("SGD"), which is the functional currency of the Company.

(2) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates at the dates of transactions. Foreign exchange gains and losses resulting from the settlement of such transactions are recognised in profit or loss.

Foreign currency monetary assets and liabilities are translated into the functional currency at the rates of exchange at the balance sheet date. Currency translation differences are recognised in profit or loss. However, in the consolidated financial statements, currency translation differences arising from borrowings in foreign currencies designated and qualifying as net investment hedges and net investment in foreign operations, are recognised in other comprehensive income and accumulated in the currency translation reserve.

When the foreign operation is a non-wholly-owned subsidiary, the relevant proportionate share of the translation difference is allocated to the non-controlling interests. When a foreign operation is disposed of such that control, significant influence or joint control is lost, the cumulative amount in the translation reserve related to that foreign operation is reclassified to profit or loss as part of the gain or loss on disposal. When the Group disposes of only part of its interest in a subsidiary that includes a foreign operation while retaining control, the relevant proportion of the cumulative amount is reattributed to non-controlling interests. When the Group disposes of only part of its investment in an associate or joint venture that includes a foreign operation while retaining significant influence or joint control, the relevant proportion of the cumulative amount is reclassified to profit or loss.

2.3 Currency translation (continued)

(2) Transactions and balances (continued)

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

Non-monetary items measured at fair values in foreign currencies are translated using the exchange rates at the date when the fair values are determined.

(3) Translation of Group entities' financial statements

The results and financial position of all the Group entities that have a functional currency different from the presentation currency are translated into the presentation currency as follows:

- (i) Assets and liabilities are translated at the closing exchange rates at the reporting date;
- (ii) Revenue and expenses are translated at average exchange rates; and
- (iii) All resulting currency translation differences are recognised in other comprehensive income and accumulated in the currency translation reserve. These currency translation differences are reclassified to profit or loss on disposal or partial disposal with loss of control of the foreign operation.

Goodwill and fair value adjustments arising on the acquisition of foreign operations are treated as assets and liabilities of the foreign operations and translated at the closing rates at the reporting date.

2.4 Revenue recognition

Revenue is measured based on the consideration specified in a contract with a customer. The Group recognises revenue as service is performed and as it satisfied its obligations to provide a product or service to a customer. Revenue is presented net of goods and services tax and after eliminating revenue within the Group on the following basis:

2.4 Revenue recognition (continued)

(1) Fixed Income, Currencies and Commodities

Fixed Income

Listing, corporate actions and other revenue of fixed income

Revenue is recognised on a per transaction basis when service is provided.

Currencies and Commodities

Trading and clearing

Trading and clearing revenue, net of rebates, generated from contracts traded, cleared and settled is recognised when service is provided and on a per transaction basis.

Treasury and other revenue

Treasury revenue is recognised on a time proportion basis. Other revenue is recognised when service is rendered.

(2) Equities

Equities - Cash

Listing

Initial and additional listing fees represent one performance obligation. Revenue is recognised over a period of time that the Group provides listing services.

Annual listing fee is recognised on a straight-line basis over the period which the fee relates. It represents the extent of the Group's completion of the performance obligation under the contract.

Corporate actions and other revenue

Revenue is recognised on a per transaction basis when service is provided.

Trading and clearing

Trading revenue generated from contracts is recognised when service is rendered and on a per transaction basis. Clearing revenue, net of rebates, generated from contracts cleared and settled is recognised when service is provided and on a per transaction basis.

Securities settlement and depository management

Revenue is recognised on a per transaction basis when service is provided.

Treasury and other revenue

Treasury revenue is recognised on a time proportion basis. Membership revenue is recognised on a straight-line basis over the period which the fee relates. It represents the extent of the Group's completion of the performance obligation under the contract. Other revenue is recognised when service is rendered.

2.4 Revenue recognition (continued)

(2) Equities (continued)

Equities - Derivatives

Trading and clearing

Trading and clearing revenue, net of rebates, generated from contracts traded, cleared and settled is recognised when service is provided and on a per transaction basis.

Treasury and other revenue

Treasury revenue is recognised on a time proportion basis. Other revenue is recognised when service is rendered.

(3) Data, Connectivity and Indices

Data subscription, connectivity and indices revenue is recognised to the extent of the Group's completion of the performance obligation under the contract. Other market data services are recognised when service is rendered.

(4) Rental income

Revenue from rental is recognised on a straight-line basis over the period which the rental income relates.

(5) Interest income

Revenue is recognised on a time proportion basis using the effective interest method.

(6) Dividend income

Revenue is recognised when the right to receive payment is established.

2.5 Income taxes

Current income tax liabilities (and assets) for current and prior periods are recognised at the amounts expected to be paid to (or recovered from) the tax authorities, using the tax rates and tax laws that have been enacted or substantively enacted by the balance sheet date.

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

2.5 Income taxes (continued)

Deferred income tax assets and liabilities are measured at:

- (i) the tax rates that are expected to apply when the related deferred income tax asset is realised or the deferred income tax liability is settled, based on tax rates and tax laws that have been enacted or substantively enacted by the balance sheet date; and
- (ii) the tax consequence that would follow from the manner in which the Group expects, at the balance sheet date, to recover or settle the carrying amounts of its assets and liabilities.

Deferred tax assets are recognised 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 are reviewed at each reporting date and are reduced to the extent that it is no longer probable that the related tax benefit will be realised; such reductions are reversed when the probability of future taxable profits improves.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to set off current tax assets against current tax liabilities and when the deferred income taxes relate to the same tax jurisdiction.

2.6 Leases

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

(i) As a lessee

At commencement or on modification of a contract that contains a lease component, the Group allocates the consideration in the contract to each lease component on the basis of its relative stand-alone prices.

The Group recognises a right-of-use asset and a lease liability at the lease commencement date. The right-of-use asset is initially measured at cost, which comprises the initial amount of the lease liability adjusted for any lease payments made at or before the commencement date, plus any initial direct costs incurred and an estimate of costs to dismantle and remove the underlying asset or to restore the underlying asset or the site on which it is located, less any lease incentives received.

2.6 Leases (continued)

(i) As a lessee (continued)

The right-of-use asset is subsequently depreciated using the straight-line method from the commencement date to the end of the lease term, unless the lease transfers ownership of the underlying asset to the Group by the end of the lease term or the cost of the right-of-use asset reflects that the Group will exercise a purchase option. In that case the right-of-use asset will be depreciated over the useful life of the underlying asset, which is determined on the same basis as those of property and equipment. In addition, the right-of-use asset is periodically reduced by impairment losses, if any, and adjusted for certain remeasurements of the lease liability.

The lease liability is initially measured at the present value of the lease payments that are not paid at the commencement date, discounted using the interest rate implicit in the lease or, if that rate cannot be readily determined, the Group's incremental borrowing rate. Generally, the Group uses its incremental borrowing rate as the discount rate.

The Group determines its incremental borrowing rate by obtaining interest rates from various external financing sources and makes certain adjustments to reflect the terms of the lease and type of the asset leased.

Lease payments included in the measurement of the lease liability comprise fixed payments, including in-substance fixed payments.

The lease liability is measured at amortised cost using the effective interest method. It is remeasured when there is a change in future lease payments arising from a change in an index or rate, if there is a change in the Group's estimate of the amount expected to be payable under a residual value guarantee, if the Group changes its assessment of whether it will exercise a purchase, extension or termination option or if there is a revised in-substance fixed lease payment.

When the lease liability is remeasured in this way, a corresponding adjustment is made to the carrying amount of the right-of-use asset, or is recorded in profit or loss if the carrying amount of the right-of-use asset has been reduced to zero.

Short-term leases and leases of low-value assets

The Group has elected not to recognise right-of-use assets and lease liabilities for leases of low-value assets and short-term leases, including IT equipment. The Group recognises the lease payments associated with these leases as an expense on a straight-line basis over the lease term.

(ii) As a lessor

At inception or on modification of a contract that contains a lease component, the Group allocates the consideration in the contract to each lease component on the basis of their relative stand-alone prices.

When the Group acts as a lessor, it determines at lease inception whether each lease is a finance lease or an operating lease.

2.6 Leases (continued)

(ii) As a lessor (continued)

To classify each lease, the Group makes an overall assessment of whether the lease transfers substantially all of the risks and rewards incidental to ownership of the underlying asset. If this is the case, then the lease is a finance lease; if not, then it is an operating lease. As part of this assessment, the Group considers certain indicators such as whether the lease is for the major part of the economic life of the asset.

The Group recognises lease payments received from investment property under operating leases as income on a straight-line basis over the lease term.

2.7 Employee benefits

Employee benefits are recognised as staff costs when they are due, unless they can be capitalised as an asset.

(1) Defined contribution plans

The Group makes legally required contributions to defined contribution plans. The Group's obligation is limited to the amount it contributes to the defined contribution plan. The Group's contributions are recognised as staff costs when they are due.

(2) Employee leave entitlement

Employee entitlements to annual leave are recognised when they accrue to employees. A provision is made for the estimated liability for annual leave as a result of services rendered by employees up to the balance sheet date.

(3) Share-based compensation

The fair value of employee services received in exchange for equity-settled share-based remuneration plans granted to employees is recognised as variable share-based payment to employees in profit or loss with a corresponding increase in the share-based payment reserve over the vesting period. The amount is determined by reference to the fair value of the shares on grant date and the expected number of shares to be vested on vesting date.

At the end of each financial reporting period, the Company revises its estimates of the expected number of shares that the participants are expected to receive. Any changes to the expected number of shares to be vested will entail a corresponding adjustment to the share-based payment to employees and share-based payment reserve.

Upon vesting of a share-based compensation plan, the portion of share-based payment previously recognised in the share-based payment reserve is reversed against treasury shares. Differences between share-based payment and cost of treasury shares are taken to the share capital of the Company.

2.8 Cash and cash equivalents

Cash and cash equivalents include cash on hand and deposits with banks which are subject to an insignificant risk of change in value, and are used by the Group in the management of its short-term commitments.

2.9 Financial assets

(1) Classification and measurement

The Group classifies its financial assets in the following measurement categories:

- Amortised cost;
- Fair value through other comprehensive income ("FVOCI"); and
- Fair value through profit or loss ("FVPL").

The classification depends on the Group's business model for managing the financial assets as well as the contractual terms of the cash flows of the financial assets.

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

At initial recognition

At initial recognition, the Group measures a financial asset at its fair value plus, in the case of a financial asset not 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.

At subsequent measurement

(i) Debt instruments

Debt instruments mainly comprise cash and cash equivalents, trade and other receivables, listed and unlisted debt securities.

There are three subsequent measurement categories, depending on the Group's business model for managing the asset and the cash flow characteristics of the asset:

• Amortised cost: Debt instruments that are held for collection of contractual cash flows where those cash flows represent solely payments of principal and interest are measured at amortised cost. A gain or loss on a debt instrument that is subsequently measured at amortised cost and is not part of a hedging relationship is recognised in profit or loss when the asset is derecognised or impaired. Interest income from these financial assets is included in interest income using the effective interest rate method.

2.9 Financial assets (continued)

(1) Classification and measurement (continued)

At subsequent measurement (continued)

- (i) Debt instruments (continued)
 - FVOCI: Debt instruments that are held for collection of contractual cash flows and for sale, and where the assets' cash flows represent solely payments of principal and interest, are classified as FVOCI. Movements in fair values are recognised in other comprehensive income and accumulated in fair value reserve, except for the recognition of impairment gains or losses, interest income and foreign exchange gains and losses, which are recognised in profit and loss. When the financial asset is derecognised, the cumulative gain or loss previously recognised in other comprehensive income is reclassified from equity to profit or loss and presented in "non-operating gains/(losses)". Interest income from these financial assets is included in interest income using the effective interest rate method.
 - FVPL: Debt instruments that do not meet the criteria for classification as amortised cost or FVOCI are classified as FVPL. Movement in fair values, including any interest income, are recognised in profit and loss in the period in which it arises and presented in "non-operating gains/(losses)".

(ii) Equity investments

The Group subsequently measures all its equity investments at their fair values. The Group has elected to recognise changes in fair value of equity securities not held for trading in other comprehensive income as these are strategic investments or for liquidity funds and the Group considers this to be more relevant. Movements in fair values of investments classified as FVOCI are presented as "fair value gains/(losses)" in other comprehensive income. Dividends from equity investments are recognised in profit or loss as "dividend income".

(2) Impairment

The Group assesses on a forward looking basis the expected credit losses associated with its debt financial assets carried at amortised cost and FVOCI. The impairment methodology applied depends on whether there has been a significant increase in credit risk.

For trade receivables, the Group applies the simplified approach permitted by the SFRS(I) 9, which requires expected lifetime losses to be recognised from initial recognition of the receivables.

2.9 Financial assets (continued)

(3) Recognition and derecognition

Regular way purchases 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 risks and rewards of ownership.

On disposal of a debt instrument, the difference between the carrying amount and the sale proceeds is recognised in profit or loss. Any amount previously recognised in other comprehensive income relating to that asset is reclassified to profit or loss.

On disposal of an equity investment, the difference between the carrying amount and the sale proceeds is recognised in other comprehensive income and transferred to retained profits along with the amount previously recognised in other comprehensive income relating to that asset.

2.10 Property, plant and equipment

(1) Property, plant and equipment

Property, plant and equipment are initially recognised at cost and subsequently stated at cost less accumulated depreciation and accumulated impairment losses.

(2) Components of costs

The cost of property, plant and equipment includes expenditure that is directly attributable to the acquisition and bringing the asset to the condition necessary for it to be capable of operating in the manner intended by management. Cost also includes any fair value gains or losses on qualifying cash flow hedges of property, plant and equipment that are transferred from the hedging reserve. Dismantlement, removal or restoration costs are included as part of the cost of property, plant and equipment if the obligation for dismantlement, removal or restoration is required to be incurred for the purpose of acquiring and using the asset.

(3) Depreciation of property, plant and equipment

No depreciation is provided on freehold land and work-in-progress.

Depreciation is calculated on a straight-line basis to allocate the cost of property, plant and equipment over their expected useful lives as follows:

Leasehold improvements

Leasehold improvements

Building and plant

Furniture, fittings and office equipment

Computer hardware

Motor vehicles

Leasehold improvements

1 to 7 years or lease term, whichever is shorter

25 to 50 years

3 to 10 years

1 to 7 years

5 years

2.10 Property, plant and equipment (continued)

(3) Depreciation of property, plant and equipment (continued)

Fully depreciated assets still in use are retained in the financial statements.

The residual values and useful lives of property, plant and equipment are reviewed, and adjusted as appropriate, at each financial year end. The effects of any revision are recognised in profit or loss when the changes arise.

(4) Subsequent expenditure

Subsequent expenditure relating to property, plant and equipment that has already been recognised is added to the carrying amount of the asset only when it is probable that future economic benefits, in excess of the originally assessed standard of performance of the existing asset, will flow to the Group and the cost can be reliably measured. All other repair and maintenance expenses are recognised in profit or loss when incurred.

(5) Disposal

On disposal or retirement of a property, plant and equipment, the difference between the net disposal proceeds and its carrying amount is recognised in profit or loss.

2.11 Software

Costs recognised are directly associated with identifiable software controlled by the Group that generate economic benefits exceeding costs beyond one year. Cost also includes any fair value gains or losses on qualifying cash flow hedges of software that are transferred from the hedging reserve. Costs associated with maintaining computer software are expensed off when incurred.

Acquired software licences are capitalised on the basis of the cost incurred to acquire and other directly attributable costs of preparing the software for its intended use. Direct expenditures, including employee costs, which enhance or extend the performance of software programmes beyond their original specifications, and which can be reliably measured, are recognised as a capital improvement and added to the original cost of the software.

Software costs and acquired software licences are stated at cost less accumulated amortisation and accumulated impairment losses. These costs are amortised using the straight-line method over their estimated useful lives, a period not exceeding 7 years. Where an indication of impairment exists, the carrying amount is assessed and written down immediately to its recoverable amount.

The period and method of amortisation of the software are reviewed at least at each financial year end. The effects of any revision of the amortisation period or method are included in profit or loss for the period in which the changes arise.

2.12 Intangible assets

Intangible assets arising from business combinations are initially recognised at cost and are subsequently carried at cost less accumulated amortisation and accumulated impairment losses. These costs are amortised to profit or loss using the straight-line method over the estimated useful life of the underlying asset as follows:

	<u>Useful lives</u>
Right to operate Singapore electricity spot market	30 years
Trade name	30 years
Technical know-how	7 to 10 years
Customer relationships	5 to 7 years

The period and method of amortisation of intangible assets are reviewed at least at each financial year end. The effects of any revision of the amortisation period or method are included in profit or loss for the period in which the changes arise.

2.13 Investment property

Investment property is held to earn rental and for capital appreciation.

Investment property is initially recognised at cost and subsequently carried at cost less accumulated depreciation and accumulated impairment losses. Freehold land of the investment property is not depreciated. Building is depreciated on a straight-line basis to allocate the cost over the estimated useful life of 50 years. The residual value and useful life are reviewed, and adjusted as appropriate, at each financial year end. The effects of any revision are recognised in profit or loss when the changes arise.

Investment property is subject to renovations or improvements at regular intervals. The cost of major renovations and improvements is capitalised and the carrying amounts of the replaced components are recognised in profit or loss. All other repair and maintenance expenses are recognised in profit or loss when incurred.

On disposal of an investment property, the difference between the net disposal proceeds and the carrying amount is recognised in profit or loss.

2.14 Goodwill on acquisitions

Goodwill on acquisitions of subsidiaries and businesses, represents the excess of (i) the sum of the consideration transferred, the amount of any non-controlling interest in the acquiree and the acquisition-date fair value of any previous equity interest in the acquiree over (ii) the fair value of the identifiable net assets acquired. Goodwill on subsidiaries is recognised separately as intangible assets and carried at cost less accumulated impairment losses.

Goodwill on acquisitions of associated companies and joint ventures represents the excess of the cost of the acquisition over the Group's share of the fair value of the identifiable net assets acquired. Goodwill on associated companies and joint ventures is included in the carrying amount of the investments.

2.15 Investments in subsidiaries, associated companies and joint ventures

Investments in subsidiaries, associated companies and joint ventures are stated at cost less accumulated impairment losses in the statement of financial position of the Company. Where an indication of impairment exists, the carrying amount of the investment is assessed and written down to its recoverable amount. Impairment losses are recognised in the profit or loss in the year in which it is determined.

On disposal of an investment, the difference between the net proceeds and its carrying amount is recognised in profit or loss.

2.16 Impairment of non-financial assets

(1) Goodwill

Goodwill recognised separately as an intangible asset is tested for impairment annually and whenever there is indication that the goodwill may be impaired. Goodwill included in the carrying amount of an investment in associated company or joint venture is tested for impairment as part of the investment, rather than separately.

For the purpose of impairment testing of goodwill, goodwill is allocated to the Group's cash-generating-units ("CGU") or group of CGUs expected to benefit from synergies arising from the business combination.

An impairment loss is recognised when the carrying amount of a CGU, including the goodwill, exceeds the recoverable amount of the CGU. Recoverable amount of a CGU is the higher of the CGU's fair value less cost to sell and value-in-use.

The total impairment loss of a CGU is allocated first to reduce the carrying amount of goodwill allocated to the CGU and then to the other assets of the CGU pro-rata on the basis of the carrying amount of each asset in the CGU.

An impairment loss on goodwill is recognised as an expense and is not reversed in a subsequent period.

(2) Property, plant and equipment

Software

Intangible assets

Investment property

Investments in subsidiaries, associated companies and joint ventures

Property, plant and equipment, software, intangible assets, investment property and investments in subsidiaries, associated companies and joint ventures are reviewed for impairment whenever there is any objective evidence or indication that the carrying amount may not be fully recoverable. An impairment loss is recognised for the amount by which the asset's carrying amount exceeds its recoverable amount, which is the higher of an asset's net selling value and its value-in-use. The impairment loss is recognised in profit or loss.

2.16 Impairment of non-financial assets (continued)

(2) Property, plant and equipment Software

Intangible assets

Investment property

Investments in subsidiaries, associated companies and joint ventures (continued)

The recoverable amount is determined on an individual asset basis unless the asset does not generate cash flows that are largely independent of those from other assets. If this is the case, the recoverable amount is determined for the CGU to which the asset belongs.

An impairment loss for an asset other than goodwill is reversed if, and only if, there has been a change in the estimates used to determine the asset's recoverable amount since the last impairment loss was recognised. The carrying amount of this asset is increased to its revised recoverable amount, provided that this amount does not exceed the carrying amount that would have been determined (net of any accumulated amortisation or depreciation) had no impairment loss been recognised for the asset in prior years. A reversal of impairment loss for an asset other than goodwill is recognised in profit or loss.

2.17 Trade and other payables

Trade and other payables represent liabilities for goods and services provided to the Group prior to the end of financial year which are unpaid. They are classified as current liabilities, if payment is due within one year or less. Otherwise, they are presented as non-current liabilities.

Trade and other payables are initially measured at fair value, and subsequently measured at amortised cost, using the effective interest method.

2.18 Loans and borrowings

Loans and borrowings are presented as current liabilities unless the Group has an unconditional right to defer settlement for at least 12 months after the balance sheet date, in which case they are presented as non-current liabilities.

Loans and borrowings are initially recognised at fair value (net of transaction costs) and subsequently carried at amortised cost. Any difference between the proceeds (net of transaction costs) and the redemption value is recognised in profit or loss over the period of the loans and borrowings using the effective interest method.

2.19 Offsetting financial instruments

Financial assets and liabilities are offset and the net amount reported in the balance sheet when there is a legally enforceable right to offset and there is an intention to settle on a net basis or realise the asset and settle the liability simultaneously.

2.20 Provisions

Provisions are recognised when the Group has a 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 a reliable estimate of the amount of the obligation can be made. Changes in the estimated amount are recognised in profit or loss when the changes arise.

2.21 Derivative financial instruments and hedging activities

A derivative financial instrument is initially recognised at its fair value on the date the contract is entered into and is subsequently carried at its fair value. The method of recognising the resulting gain or loss depends on whether the derivative is designated as a hedging instrument, and if so, the nature of the item being hedged.

The Group documents at the inception of the transaction the relationship between the hedging instruments and hedged items, as well as its risk management objective and strategies for undertaking various hedging transactions. The Group also documents its assessment, both at hedge inception and on an ongoing basis, on whether the hedging relationship meets the hedge effectiveness requirements under SFRS(I) 9.

Fair value changes on derivatives that are not designated or do not qualify for hedge accounting are recognised in profit or loss when the changes arise.

(1) Currency forwards – cash flow hedge

The Group has entered into currency forwards that qualify as cash flow hedges against highly probable forecasted transactions in foreign currencies. The fair value changes on the effective portion of the currency forwards designated as cash flow hedges are recognised in other comprehensive income and transferred to either the cost of a hedged non-monetary asset upon acquisition or profit or loss when the hedged forecast transactions are recognised.

The fair value changes on the ineffective portion of currency forwards are recognised immediately in profit or loss. When a forecasted transaction is no longer expected to occur, the gains and losses that were previously recognised in other comprehensive income are transferred to profit or loss immediately.

(2) Net investment hedge

The Group has foreign currency borrowings that qualify as net investment hedges of foreign operations. The currency translation differences on the borrowings relating to the effective portion of the hedge are recognised in other comprehensive income in the consolidated financial statements, accumulated in the currency translation reserve and reclassified to profit or loss as part of the gain or loss on disposal of the foreign operation. The currency translation differences relating to the ineffective portion of the hedge are recognised immediately in profit or loss.

2.22 Compound financial instruments

Compound financial instruments issued by the Group comprise convertible bonds denominated in Euro dollars that can be converted to ordinary shares at the option of the holder, where the number of shares to be issued is fixed and does not vary with changes in fair value.

The liability component of a compound financial instrument is initially recognised at the fair value of a similar liability that does not have an equity conversion option. The equity component is initially recognised at the difference between the fair value of the compound financial instrument as a whole and the fair value of the liability component. Any directly attributable transaction costs are allocated to the liability and equity components in proportion to their initial carrying amounts.

Subsequent to initial recognition, the liability component of a compound financial instrument is measured at amortised cost using the effective interest method. The equity component of a compound financial instrument is not remeasured.

Interest related to the financial liability is recognised in profit or loss. On conversion at maturity, the financial liability is reclassified to equity and no gain or loss is recognised.

2.23 Intra-group financial guarantees in the separate financial statements

Financial guarantees are financial instruments issued by the Company that require the issuer to make specified payments to reimburse the holder for the loss it incurs because a specified debtor fails to meet payment when due in accordance with the original or modified terms of a debt instrument.

Financial guarantees issued are initially measured at fair value. Subsequently, they are measured at the higher of the loss allowance determined in accordance with SFRS(I) 9 and the amount initially recognised less, when appropriate, the cumulative amount of income recognised in accordance with the principles of SFRS(I) 15.

Expected credit losses are a probability-weighted estimate of credit losses. Expected credit losses are measured for financial guarantees issued as the expected payments to reimburse the holder less any amounts that the Company expects to recover.

Liabilities arising from financial guarantees are included within "Loans and borrowings".

2.24 Share capital and treasury shares

Ordinary shares are classified as equity.

When any entity within the Group purchases the Company's ordinary shares ("treasury shares"), the consideration paid, including any directly attributable incremental costs, net of income taxes, is deducted from equity attributable to the Company's equity holders and presented as treasury shares within equity, until they are cancelled, sold or reissued.

When treasury shares are subsequently sold or reissued pursuant to the share-based remuneration plan, the cost of the treasury shares is reversed from the treasury share account and the realised gain or loss on sale or reissue, net of any directly attributable incremental transaction costs and related income tax, is taken to the share capital account of the Company.

2.25 Dividends

Interim dividends are deducted from retained profits during the financial year in which they are declared payable.

Final dividends are transferred from retained profits to a proposed dividend reserve when they are proposed by the directors. The amount will be transferred from the proposed dividend reserve to dividend payable when the dividends are approved by the shareholders.

2.26 Segment reporting

Operating segments are reported in a manner consistent with the internal reporting provided to the executive committee who are responsible for allocating resources and assessing performance of the operating segments.

2.27 Government grants

Grants from the government are recognised as a receivable when there is reasonable assurance that the grant will be received and compliance with all the attached conditions.

Government grants relating to expenses are offset against the related expenses. Government grants relating to assets are deducted against the carrying amount of the assets.

3 Critical accounting estimates and judgements

Estimates and judgements are regularly evaluated based on historical experience, current circumstances and expectations of future events. The following provides a description of the areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the financial statements:

(i) Goodwill

Goodwill is tested for impairment in accordance with Note 2.16(1). The recoverable amount of goodwill is based on value-in-use calculation using discounted cash flow model and management's best estimate of future cash flows, long term growth rate and discount rate (Note 23).

(ii) Fair value of financial instruments

The Group holds certain financial instruments for which no quoted prices are available, and which may have little or no observable market inputs. For these financial instruments, the determination of fair value requires subjective assessment and management judgment which takes into consideration the liquidity, pricing assumptions, current economic and competitive environment and the risks affecting the specific financial instrument. In such circumstances, valuation is determined based on management's judgment related to the assumptions that market participants would use in pricing assets or liabilities (Note 48).

(iii) Intangible assets

Intangible assets are valued on acquisition using appropriate methodology and amortised over the estimated useful lives. The valuation methodology employed includes: (a) discounted cash flow model and management's best estimate of future cash flows, long term growth rate and discount rate; (b) relief-from-royalty method for technical know-how; and (c) multi-period excess earnings method for customer relationships. Useful lives are based on management's best estimates of periods over which value from the intangible assets will be realised (Note 2.12 and Note 22). Management reassesses the estimated useful lives at each financial year end, taking into account the period over which the intangible assets are expected to generate future economic benefit. Intangible assets are tested for impairment in accordance with Note 2.16(2).

4 Operating revenue

Operating revenue comprised the following:

	Grou	ıp	Compa	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Fixed Income, Currencies and Commodities				
Fixed Income				
Listing	5,126	8,722	_	_
Corporate actions and other	3,178	3,453	_	
	8,304	12,175	_	_
Currencies and Commodities				
Trading and clearing	227,106	183,905	_	_
Treasury and other	102,756	56,665	_	_
	329,862	240,570	_	_
	338,166	252,745	_	_
Equities Equities - Cash				
Listing	30,912	34,752	_	_
Corporate actions and other	35,394	28,050	_	_
Trading and clearing Securities settlement and	175,416	209,731	_	_
depository management	96,925	108,321	_	_
Treasury and other	7,480	7,594	_	_
_	346,127	388,448	_	_
Equities - Derivatives				
Trading and clearing	281,578	281,860	_	_
Treasury and other	81,478	28,559	_	_
	363,056	310,419	_	_
	709,183	698,867	_	_
Data, Connectivity and Indices				
Market data and indices	78,034	82,908	_	_
Connectivity	69,025	64,521	34,822	30,136
_	147,059	147,429	34,822	30,136

5 Staff

	Group		Company	
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Salaries Employer's contribution to defined contribution plans	173,995	154,747	88,766	78,555
on salaries	8,978	8,700	6,417	6,131
	182,973	163,447	95,183	84,686
Variable bonus Employer's contribution to defined contribution plans	72,575	70,019	38,154	37,722
on variable bonus	2,831	2,834	2,101	1,964
	75,406	72,853	40,255	39,686
Variable share-based payment Variable share-based payment	17,780	14,654	17,111	14,167
recharged to subsidiary		<u> </u>	(2,236)	(1,987)
	276,159	250,954	150,313	136,552

6 Technology

- · · · · · · · · · · · · · · · · · · ·	Group		Comp	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
System maintenance and rental	84,804	77,940	47,881	46,352
Communication charges	3,290	3,403	2,577	2,537
_	88,094	81,343	50,458	48,889

7 Premises

	Group		Company	
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Premise maintenance and rental	9,801	9,997	5,844	5,650

8 Other operating expenses

	Group		Comp	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Marketing	8,935	7,660	2,987	2,760
Travelling	6,227	3,207	2,079	1,115
Allowance for impairment of				
trade receivables, net	1,405	3,291	56	58
Net loss on disposal of property, plant and				
equipment and software	708	1,832	708	1,150
Directors' fees	3,063	3,095	2,284	2,292
Regulatory fees	7,318	6,636	402	400
Miscellaneous	13,373	11,916	14,134	15,248
_	41,029	37,637	22,650	23,023

9 Depreciation and amortisation

	Group		Comp	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Technology-related depreciation and amortisation	64,911	64,874	21,810	21,968
Premises-related depreciation Amortisation of intangible	15,584	14,799	13,796	13,633
assets	17,759	16,905	_	_
Depreciation of motor vehicle	68	80	68	80
	98,322	96,658	35,674	35,681

10 Operating profit

The following items have been included in arriving the operating profit:

	Group		Compa	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Charging/(crediting):				
Audit services by auditor of the				
Company (a)	1,490	1,501	382	574
Other services by auditor of the				
Company	247	199	52	62
Provision for/(utilisation of)				
unutilised leave (Note 33(b))	214	(3,747)	(31)	(1,895)
And crediting:				
Treasury income on collateral				
balances held in trust (net)	136,857	49,428	_	_

⁽a) Amount for the financial year ended 30 June 2022 does not include \$50,000 for audit services relating to issuance of USD 250 million medium term notes that had been capitalised.

11 Non-operating items

	Group		Company	
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Other income (net)				
- Dividend income from				
associated company	_	_	1,710	1,830
- Dividend income from		22-		
financial assets, at FVOCI	_	897	_	_
- Fair value gain on forward				
liability to acquire non-				
controlling interests (Note 34)	23,306			
- Changes in fair value of	23,300	_	_	_
financial assets, at FVPL	39,748	_	_	_
- Changes in fair value of	37,740			
contingent consideration				
(Note 24)	14,880	4,943	_	_
- Gains on changes in interests	,	,		
in associated companies	1,707	5,289	_	_
- Others	12,367	2,017	18,815	11,686
	92,008	13,146	20,525	13,516
Interest income				
- Interest income from fixed				
deposits and current accounts	25 607	2.1.61	2.000	622
with banks	25,697	3,161	3,899	633
- Interest income from	2.200	140		
financial assets, at FVOCI	2,399	149	2 200	633
	28,096	3,310	3,899	033

11 Non-operating items (continued)

	Grou	ıp	Compa	ny
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Finance charges				
Interest expense				
- Bank borrowings	(94)	(412)	(94)	(412)
 Lease liabilities 	(1,227)	(1,688)	(1,116)	(1,634)
- Convertible bonds	(1,557)	(1,649)	_	_
- Medium term notes	(4,373)	(3,635)	(4,373)	(3,635)
<u>-</u>	(7,251)	(7,384)	(5,583)	(5,681)
Net foreign exchange (losses)/gains	(1,391)	8,602	6,537	16
Impairment losses on non-financial assetsImpairment loss on intangible				
assets (Note 22) - Impairment loss on investment property	(8,343)	_	_	_
(Note 19) - Impairment loss on	(3,080)	_	_	_
investment in joint venture	(203)	_	_	_
	(11,626)	_	_	_
_	`	·	·	
-	99,836	17,674	25,378	8,484

12 Earnings per share

	Group	
	2023 \$'000	2022 \$'000
Net profit after tax attributable to the equity holders of the		
Company for basic earnings per share	570,895	451,398
Interest expense on convertible bonds	1,557	1,649
Net profit after tax attributable to the equity holders of the		
Company for diluted earnings per share	572,452	453,047

12 Earnings per share (continued)

	Group	
	2023	2022
Weighted average number of ordinary shares in issue for basic earnings per share ('000)	1,068,621	1,068,983
Adjustments for: - Effect of conversion of convertible bonds ('000) - Shares granted under SGX performance share plans and	31,560	30,505
deferred long-term incentives schemes ('000)	5,346	5,236
Weighted average number of ordinary shares for diluted earnings per share ('000)	1,105,527	1,104,724
Earnings per share (in cents)		
- Basic	53.4	42.2
- Diluted	51.8	41.0

13 Cash and cash equivalents

1	Grou	ір	Company		
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	
Cash at bank and on hand	419,980	352,194	89,598	39,920	
Fixed deposits with banks	613,203	623,102	40,500	45,600	
Escrow (Note 29(b))	_	22,451	_	_	
	1,033,183	997,747	130,098	85,520	

Escrow funds are held by the Group on behalf of certain clients. These funds are controlled by the Group and economic benefits are derived from them. Accordingly, these funds are recognised as an asset on the Group's balance sheet.

For the purpose of presenting the consolidated statement of cash flows of the Group, the consolidated cash and cash equivalents comprise the following:

Group	
	022 000
Cash and cash equivalents per consolidated statement of cash	
flows 777,304 7.	52,153
Add:	
Cash committed for	
- Singapore Exchange Derivatives Clearing Limited	
("SGX-DC") Clearing Fund (Note 41) 131,805	25,021
- Securities Clearing Fund (Note 40) 40,000	60,000
- National Electricity Market of Singapore ("NEMS")	
(Note (a)) 84,074	60,573
Cash and cash equivalents (as above) 1,033,183 9	97,747

Croun

13 Cash and cash equivalents (continued)

(a) Cash committed for NEMS

Cash committed for NEMS represents Energy Market Company Pte Ltd ("EMC") commitment to the operation of the electricity market of Singapore. The manner in which the cash can be used are defined by the Singapore Electricity Market Rules issued by the Energy Market Authority of Singapore. The committed cash is not available to EMC for its operations.

14 Trade and other receivables

	Gro	up	Compa	any	
	2023	2022	2023	2022	
	\$'000	\$'000	\$'000	\$'000	
Current					
Trade receivables (net)					
(Note (a))	904,559	994,814	11,848	7,659	
Escrow deposits (Note (b))	5,294	_	_	_	
Other receivables (Note (c))	201,515	66,006	167,293	146,368	
	1,111,368	1,060,820	179,141	154,027	

(a) Trade receivables (net) comprise:

	Grou	ıp	Compa	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Receivables from clearing members and settlement				
banks - Daily settlement of accounts for due contracts				
and rights (Note 29(a))	319,639	573,867	_	_
Receivables under NEMS				
(Note 15)	371,410	240,161	_	_
Other trade receivables	219,693	185,961	11,959	7,714
_	910,742	999,989	11,959	7,714
Less: Allowance for impairment of trade				
receivables (Note 48)	(6,183)	(5,175)	(111)	(55)
_	904,559	994,814	11,848	7,659

The receivables from clearing members and settlement banks represent the net settlement obligations to The Central Depository (Pte) Limited ("CDP"). The corresponding net settlement obligations from CDP to the clearing members and settlement banks are disclosed in Note 29(a).

14 Trade and other receivables (continued)

- (b) Escrow deposits are cash balances placed by the Group in term deposits where the funds cannot be withdrawn at any time from the banks without penalty.
- (c) Other receivables comprise:

	Grou	ıp	Company		
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	
Prepayments	36,420	28,953	21,450	17,487	
Interest receivable	152,487	30,365	591	34	
Deposits	931	1,017	186	226	
Amounts due from subsidiaries					
(non-trade) (Note (d))	_	_	142,832	124,237	
Others (non-trade)	11,677	5,671	2,234	4,384	
	201,515	66,006	167,293	146,368	

(d) Amounts due from subsidiaries are unsecured, non-interest bearing and repayable on demand.

15 Cash, receivables and payables under NEMS

EMC has cash, receivables and payables in respect of sale of electricity to market participants and purchase of electricity and ancillary services from market participants in the NEMS as follows:

	Group			
	2023 \$'000	2022 \$'000		
Cash committed for NEMS (Note 13)	84,074	60,573		
Receivables under NEMS (Note 14(a))	371,410	240,161		
Total settlement cash and receivables	455,484	300,734		
Payables under NEMS (Note 29(a))	455,484	300,734		
Total settlement payables	455,484	300,734		

16 Derivative financial instruments

		Gro	up
		Fair v	alue
	Currency forwards notional amount \$'000	Asset \$'000	Liability \$'000
30 June 2023 Cash-flow hedges - Currency forwards	169,024	1,008	(2,599)
- Currency forwards	109,024 _	1,008	(2,599)
30 June 2022 Cash-flow hedges			
- Currency forwards	76,179	17	(2,090)
•	_	17	(2,090)

17 Financial assets, at FVOCI

	Grou	ıp
	2023 \$'000	2022 \$'000
Current		
Equity securities – Quoted	_	31,442
Bonds – Quoted	33,917	62,713
	33,917	94,155
•		
Non-current		
Equity securities – Unquoted	162,919	239,064

18 Financial assets, at FVPL

	Grou	Group		
	2023 \$'000	2022 \$'000		
Non-current				
Equity securities – Quoted	22,169	_		
Debt securities – Unquoted	331,697	293,545		
	353,866	293,545		

19 Investment property, and Property, plant and equipment

	Owner occupied property			Furniture,					
Group	Investment property \$'000	Freehold land \$'000	Building and plant \$'000	Leasehold improvements \$'000	fittings and office equipment \$'000	Computer hardware \$'000	Motor vehicle \$'000	Work-in- progress \$'000	Total \$'000
2023									
Cost									
At 1 July 2022	18,059	_	_	45,199	10,023	72,694	401	8,041	136,358
Reclassification	-	_	_	506	-	4,710	-	(5,216)	-
Additions	_	_	_	_	631	5,522	_	14,674	20,827
Write-off/Disposals	_	_	_	(27)	(104)	(2,024)	_	_	(2,155)
Currency translation	252		_	(3)	(1)	(78)	_	(89)	(171)
At 30 June 2023	18,311		_	45,675	10,549	80,824	401	17,410	154,859
Accumulated depreciation and									
impairment									
At 1 July 2022	_	_	_	41,305	8,747	51,744	333	_	102,129
Depreciation charge	_	-	_	1,894	609	10,949	68	_	13,520
Impairment (Note 11)	3,080	_	_	_	=	_	_	_	_
Write-off/Disposals	_	_	_	(27)	(104)	(1,787)	_	_	(1,918)
Currency translation			_	(3)	2	(49)		_	(50)
At 30 June 2023	3,080			43,169	9,254	60,857	401	_	113,681
Nick has been been									
Net book value At 30 June 2023	15,231			2.506	1 205	10.067		17 410	A1 170
At 50 Julie 2025	13,231			2,506	1,295	19,967	=	17,410	41,178
Market value									
At 30 June 2023	15,231								

During the financial year ended 30 June 2023, an impairment loss of \$3,080,000 was recognised on the investment property. The recoverable amount of the investment property was appraised by an external valuer and determined using the income method.

19 Investment property, and Property, plant and equipment (continued)

	Owner occupied property				Furniture,					
Group	Investment property \$'000	Freehold land \$'000	Building and plant \$'000	Leasehold improvements \$'000	fittings and office	Computer hardware \$'000	Motor vehicle \$'000	Work-in- progress \$'000	Total \$'000	
2022										
Cost										
At 1 July 2021	27,305	6,111	6,080	44,296	10,082	74,631	401	5,505	147,106	
Reclassification	5,544 ^(a)	$(5,544)^{(a)}$	=	_	=	2,658	=	(2,658)	(5,544)	
Additions	=	=	=	929	511	2,482	=	5,248	9,170	
Write-off/Disposals	$(12,259)^{(a)}$	_	$(5,516)^{(a)}$	(26)	(504)	(7,001)	_	_	(13,047)	
Currency translation	(2,531)	(567)	(564)		(66)	(76)		(54)	(1,327)	
At 30 June 2022	18,059			45,199	10,023	72,694	401	8,041	136,358	
A commulated dangeriation										
Accumulated depreciation At 1 July 2021	1,144		1,811	39,664	8,529	46,449	253		96,706	
Depreciation charge	1,144	_ _	50	1,653	510	11,274	233 80	-	13,567	
Write-off/Disposals	(1,119)	_	(1,689)	(12)	(248)	(5,953)	-	_	(7,902)	
Currency translation	(1,117)	_	(172)	(12)	(44)	(26)	_	_	(242)	
At 30 June 2022	(114)		(1/2)	41,305	8,747	51,744	333		102,129	
				•	<u> </u>	· · · · · · · · · · · · · · · · · · ·				
Net book value										
At 30 June 2022	18,059		-	3,894	1,276	20,950	68	8,041	34,229	
						_		_		
Market value										
At 30 June 2022	18,144									

⁽a) During the financial year ended 30 June 2022, the Group completed the sale of a long lease of a building for cash consideration of GBP 17,000,000. Upon the sale, the building and plant were derecognised, while the freehold land continues to be on the balance sheet as the Group retains ownership of the land. The capital receipt attributed to the freehold land is recognised as deferred revenue and amortised over the lease period (Note 34). The owner occupied freehold land was transferred to investment property.

19 Investment property, and Property, plant and equipment (continued)

The following amounts are recognised in the statement of comprehensive income of the Group:

	Group		
	2023 \$'000	2022 \$'000	
Rental income	_	578	
Direct operating expenses arising from the investment property	_	(354)	
	_	224	

Details of the Group's investment property as at 30 June 2023 are as follows:

Location	Description	Tenure
38 St Mary Axe, London EC3, United Kingdom	Land	Freehold

The fair value of the investment property was independently appraised by an external valuer and is determined using the income method. The property is classified under Level 3 of the fair value hierarchy and the significant unobservable input used for valuation is market rental. The estimated fair value would increase (decrease) if the market rental was higher (lower).

	Leasehold improve- ments \$'000	Furniture, fittings and office equipment \$'000	Computer hardware \$'000	Motor vehicle \$'000	Work-in- progress \$'000	Total \$'000
Company						
2023						
Cost						
At 1 July 2022	44,489	9,175	33,043	401	5,836	92,944
Reclassification	424		2,899	_	(3,323)	_
Additions	_	459	_	_	12,875	13,334
Write-off/Disposals		_	(1,609)	_	_	(1,609)
At 30 June 2023	44,913	9,634	34,333	401	15,388	104,669
Accumulated depreciation						
At 1 July 2022	40,944	8,139	24,049	333	_	73,465
Depreciation charge	1,783	524	3,874	68	_	6,249
Write-off/Disposals	_		(1,407)	_	_	(1,407)
At 30 June 2023	42,727	8,663	26,516	401	_	78,307
Net book value						
At 30 June 2023	2,186	971	7,817	=	15,388	26,362

19 Investment property, and Property, plant and equipment (continued)

2022 Cost At 1 July 2021 43,786 8,931 35,950 401 1,893 90,961 Reclassification - - - 1,654 - (1,654) - Additions 714 308 - - 5,597 6,619 Write-off/Disposals (11) (64) (4,561) - - (4,636) At 30 June 2022 44,489 9,175 33,043 401 5,836 92,944 Accumulated depreciation At 1 July 2021 39,354 7,782 23,503 253 - 70,892 Depreciation charge 1,598 421 4,195 80 - 6,294 Write-off/Disposals (8) (64) (3,649) - - - (3,721) At 30 June 2022 40,944 8,139 24,049 333 - 73,465 Net book value At 30 June 2022 3,545 1,036 8,994 68 5,836 19,479	Company	Leasehold improve- ments \$'000	Furniture, fittings and office equipment \$'000	Computer hardware \$'000	Motor vehicle \$'000	Work-in- progress \$'000	Total \$'000
Cost At 1 July 2021 43,786 8,931 35,950 401 1,893 90,961 Reclassification - - - 1,654 - (1,654) - Additions 714 308 - - 5,597 6,619 Write-off/Disposals (11) (64) (4,561) - - (4,636) At 30 June 2022 44,489 9,175 33,043 401 5,836 92,944 Accumulated depreciation At 1 July 2021 39,354 7,782 23,503 253 - 70,892 Depreciation charge 1,598 421 4,195 80 - 6,294 Write-off/Disposals (8) (64) (3,649) - - - (3,721) At 30 June 2022 40,944 8,139 24,049 333 - 73,465	Company						
At 1 July 2021 43,786 8,931 35,950 401 1,893 90,961 Reclassification - - 1,654 - (1,654) - Additions 714 308 - - 5,597 6,619 Write-off/Disposals (11) (64) (4,561) - - - (4,636) At 30 June 2022 44,489 9,175 33,043 401 5,836 92,944 Accumulated depreciation At 1 July 2021 39,354 7,782 23,503 253 - 70,892 Depreciation charge 1,598 421 4,195 80 - 6,294 Write-off/Disposals (8) (64) (3,649) - - - (3,721) At 30 June 2022 40,944 8,139 24,049 333 - 73,465 Net book value	2022						
Reclassification - - 1,654 - (1,654) - Additions 714 308 - - 5,597 6,619 Write-off/Disposals (11) (64) (4,561) - - (4,636) At 30 June 2022 44,489 9,175 33,043 401 5,836 92,944 Accumulated depreciation At 1 July 2021 39,354 7,782 23,503 253 - 70,892 Depreciation charge 1,598 421 4,195 80 - 6,294 Write-off/Disposals (8) (64) (3,649) - - - (3,721) At 30 June 2022 40,944 8,139 24,049 333 - 73,465 Net book value	Cost						
Additions 714 308 — — 5,597 6,619 Write-off/Disposals (11) (64) (4,561) — — (4,636) At 30 June 2022 44,489 9,175 33,043 401 5,836 92,944 Accumulated depreciation At 1 July 2021 39,354 7,782 23,503 253 — 70,892 Depreciation charge 1,598 421 4,195 80 — 6,294 Write-off/Disposals (8) (64) (3,649) — — (3,721) At 30 June 2022 40,944 8,139 24,049 333 — 73,465 Net book value	At 1 July 2021	43,786	8,931	35,950	401	1,893	90,961
Write-off/Disposals (11) (64) (4,561) - - (4,636) At 30 June 2022 44,489 9,175 33,043 401 5,836 92,944 Accumulated depreciation At 1 July 2021 39,354 7,782 23,503 253 - 70,892 Depreciation charge 1,598 421 4,195 80 - 6,294 Write-off/Disposals (8) (64) (3,649) - - (3,721) At 30 June 2022 40,944 8,139 24,049 333 - 73,465 Net book value	Reclassification	_	_	1,654	_	(1,654)	_
At 30 June 2022 44,489 9,175 33,043 401 5,836 92,944 Accumulated depreciation At 1 July 2021 39,354 7,782 23,503 253 - 70,892 Depreciation charge 1,598 421 4,195 80 - 6,294 Write-off/Disposals (8) (64) (3,649) - - - (3,721) At 30 June 2022 40,944 8,139 24,049 333 - 73,465 Net book value	Additions	714	308	_	_	5,597	6,619
Accumulated depreciation At 1 July 2021 39,354 7,782 23,503 253 - 70,892 Depreciation charge 1,598 421 4,195 80 - 6,294 Write-off/Disposals (8) (64) (3,649) - - - (3,721) At 30 June 2022 40,944 8,139 24,049 333 - 73,465 Net book value	Write-off/Disposals	(11)	(64)	(4,561)		_	(4,636)
At 1 July 2021 39,354 7,782 23,503 253 - 70,892 Depreciation charge 1,598 421 4,195 80 - 6,294 Write-off/Disposals (8) (64) (3,649) - - (3,721) At 30 June 2022 40,944 8,139 24,049 333 - 73,465 Net book value	At 30 June 2022	44,489	9,175	33,043	401	5,836	92,944
Depreciation charge 1,598 421 4,195 80 - 6,294 Write-off/Disposals (8) (64) (3,649) - - (3,721) At 30 June 2022 40,944 8,139 24,049 333 - 73,465 Net book value	Accumulated depreciation						
Write-off/Disposals At 30 June 2022 (8) (64) (3,649) (3,721) 40,944 8,139 24,049 333 - 73,465 Net book value	At 1 July 2021	39,354	7,782	23,503	253	_	70,892
At 30 June 2022 40,944 8,139 24,049 333 - 73,465 Net book value	Depreciation charge	1,598	421	4,195	80	_	6,294
Net book value	Write-off/Disposals	(8)	(64)	(3,649)		_	(3,721)
	At 30 June 2022	40,944	8,139	24,049	333	_	73,465
	NI-4 beeck and be						
		3,545	1,036	8,994	68	5,836	19,479

20 Software

		Work-	
	Software \$'000	in-progress \$'000	Total \$'000
Group			
2023			
Cost			
At 1 July 2022	375,573	34,404	409,977
Reclassification	28,511	(28,511)	_
Additions	10,322	21,995	32,317
Write-off/Disposals	(5,505)	_	(5,505)
Currency translation	(551)	(582)	(1,133)
At 30 June 2023	408,350	27,306	435,656
Accumulated amortisation			
At 1 July 2022	243,673	_	243,673
Amortisation charge	44,615	_	44,615
Write-off/Disposals	(4,125)	_	(4,125)
Currency translation	(277)	_	(277)
At 30 June 2023	283,886	_	283,886
Net book value			
At 30 June 2023	124,464	27,306	151,770

20 Software (continued)

	Work-		
	Software \$'000	in-progress \$'000	Total \$'000
Group			
2022			
Cost			
At 1 July 2021	333,870	38,445	372,315
Reclassification	40,907	(40,907)	-
Additions	8,450	36,945	45,395
Write-off/Disposals	(8,014)	- (70)	(8,014)
Currency translation	360	(79)	281
At 30 June 2022	375,573	34,404	409,977
Accumulated amortisation			
At 1 July 2021	206,472	_	206,472
Amortisation charge	44,767	_	44,767
Write-off/Disposals	(7,780)	_	(7,780)
Currency translation	214	_	214
At 30 June 2022	243,673	_	243,673
Net book value			
At 30 June 2022	131,900	34,404	166,304
Company			
Company			
2023			
Cost			
At 1 July 2022	76,846	10,156	87,002
Reclassification	10,100	(10,100)	_
Additions	_	13,025	13,025
Write-off/Disposals	(3,427)	_	(3,427)
At 30 June 2023	83,519	13,081	96,600
Accumulated amortisation			
At 1 July 2022	44,087	_	44,087
Amortisation charge	9,620	_	9,620
Write-off/Disposals	(2,920)	_	(2,920)
At 30 June 2023	50,787	_	50,787
110000000000000000000000000000000000000	20,101		23,707
Net book value			
At 30 June 2023	32,732	13,081	45,813

20 Software (continued)

	Work-		
	Software \$'000	in-progress \$'000	Total \$'000
Company			
2022			
Cost			
At 1 July 2021	67,747	10,113	77,860
Reclassification	11,527	(11,527)	_
Additions	_	11,570	11,570
Write-off/Disposals	(2,428)	_	(2,428)
At 30 June 2022	76,846	10,156	87,002
Accumulated amortisation			
At 1 July 2021	36,736	_	36,736
Amortisation charge	9,544	_	9,544
Write-off/Disposals	(2,193)	_	(2,193)
At 30 June 2022	44,087	_	44,087
Net book value			
At 30 June 2022	32,759	10,156	42,915

21 Right-of-use assets

Leases - The Group and the Company as a lessee

The Group and the Company lease office premises, data centres and equipment with varying terms and renewal rights.

The Group and the Company lease IT equipment with contract terms of one to three years. These leases are short-term and/or leases of low-value items. The Group and the Company have elected not to recognise right-of-use assets and lease liabilities for these leases.

	Other				
Group	Premises \$'000	equipment \$'000	Total \$ '000		
2023					
At 1 July 2022	48,646	2,292	50,938		
Depreciation charge	(21,129)	(1,299)	(22,428)		
Additions	5,123	261	5,384		
Reassessment and modifications (a)	5	_	5		
Currency translation	32	_	32		
At 30 June 2023	32,677	1,254	33,931		

21 Right-of-use assets (continued)

Leases – The Group and the Company as a lessee (continued)

Group	Premises \$'000	Other equipment \$'000	Total \$'000
2022			
At 1 July 2021	65,607	3,551	69,158
Depreciation charge	(20,070)	(1,260)	(21,330)
Additions	3,129	_	3,129
Reassessment and modifications (a)	33	_	33
Currency translation	(53)	1	(52)
At 30 June 2022	48,646	2,292	50,938
Company 2023 At 1 July 2022 Depreciation charge Additions	45,070 (18,512) 500	2,289 (1,293) 239	47,359 (19,805) 739
At 30 June 2023	27,058	1,235	28,293
2022 At 1 July 2021 Depreciation charge Reassessment and modifications (a)	63,622 (18,585) 33	3,547 (1,258)	67,169 (19,843) 33
At 30 June 2022	45,070	2,289	47,359

⁽a) Reassessment and modifications for the Group and the Company relate to changes in lease term and lease payments of existing leases.

(1) Other amounts recognised in profit or loss

	Group		Company	
	2023	2022	2023	2022
	\$'000	\$'000	\$'000	\$'000
Leases under SFRS(I) 16				
Interest on lease liabilities				
(Note 11)	1,227	1,688	1,116	1,634
Expenses relating to short-term				
leases and low-value assets	2,840	3,228	808	1,050
	4,067	4,916	1,924	2,684

21 Right-of-use assets (continued)

Leases – The Group and the Company as a lessee (continued)

(2) Amounts recognised in statement of cash flows

		Group
	2023 \$'000	2022 \$'000
Total cash outflow for leases	24,429	23,142

(3) Extension options

Some property leases contain extension options exercisable by the Group and the Company before the end of the non-cancellable contract period. Where practicable, the Group and the Company seek to include extension options in new leases to provide operational flexibility. The Group and the Company assess at lease commencement date whether it is reasonably certain to exercise the extension options. The Group and the Company reassess whether it is reasonably certain to exercise the options if there is a significant event or significant changes in circumstances within its control.

22 Intangible assets

	Right to operate Singapore electricity spot market \$'000	Trade name \$'000	Technical know-how \$'000	Customer relationships \$'000	Total \$'000
Group					
2023					
Cost					
At 1 July 2022	27,140	37,501	50,816	46,835	162,292
Currency translation		522	(134)	(170)	218
At 30 June 2023	27,140	38,023	50,682	46,665	162,510
Accumulated amortisation and impairment losses					
At 1 July 2022	7,012	7,084	14,601	15,799	44,496
Amortisation charge (Note 9)	905	1,218	7,418	8,218	17,759
Impairment loss (Note 11)	_	_	6,409	1,934	8,343
Currency translation		148	(9)	145	284
At 30 June 2023	7,917	8,450	28,419	26,096	70,882
Net book value					
At 30 June 2023	19,223	29,573	22,263	20,569	91,628
	- 7 -	- 7	,	- 7	- ,
2022					
Cost					
At 1 July 2021	27,140	41,334	45,428	37,969	151,871
Acquisition of business					
(Note 24)	_	_	7,759	10,532	18,291
Currency translation		(3,833)	(2,371)	(1,666)	(7,870)
At 30 June 2022	27,140	37,501	50,816	46,835	162,292
Accumulated amortisation					
At 1 July 2021	6,107	6,431	7,954	8,986	29,478
Amortisation charge (Note 9)	905	1,335	7,062	7,603	16,905
Currency translation	-	(682)	(415)	(790)	(1,887)
At 30 June 2022	7,012	7,084	14,601	15,799	44,496
11.00 baile 2022	7,012	7,00 r	11,001	10,177	11,170
Net book value					
At 30 June 2022	20,128	30,417	36,215	31,036	117,796
				,	-

The intangible assets are the right to operate the Singapore electricity spot market, arising from the acquisition of EMC, the Baltic Exchange Limited ("BEL") trade name arising from the acquisition of BEL and technical know-how and customer relationships, arising from the acquisitions of Scientific Beta Pte. Ltd. ("SB"), BidFX Systems Ltd ("BidFX") and MaxxTrader trading platform business ("MT").

22 Intangible assets (continued)

During the financial year, an impairment loss of \$8,343,000 (2022: Nil) was recognised on SB's technical know-how and customer relationships, which was attributable to SB's performance decline. The recoverable amount of SB's technical know-how and customer relationships was estimated based on fair value less costs of disposal. For the technical know-how, the recoverable amount was estimated using the relief-from-royalty method while the recoverable amount of the customer relationships was estimated using the multi-period excess earnings method. No impairment loss has been recognised on the other intangible assets as there is no objective evidence or indication that the carrying amounts may not be fully recoverable as at 30 June 2023 (2022: Nil).

23 Goodwill

	Group		
	2023 \$'000	2022 \$'000	
Beginning of financial year	708,290	541,233	
Acquisition of business (Note 24)	_	186,677	
Currency translation	(5,425)	(19,620)	
Balance at end of financial year	702,865	708,290	

The goodwill relates to the acquisitions of:

- a) EMC, a subsidiary operating the Singapore electricity spot market;
- b) BEL, a subsidiary providing freight market indices and information as well as membership services;
- c) SB, an index-provider subsidiary specialising in smart beta strategies;
- d) BidFX, a subsidiary providing electronic foreign exchange trading solutions and platform to the global financial marketplace; and
- e) MT, a provider of foreign exchange pricing and risk solutions for sell-side institutions including banks and broker-dealers, and a multi-dealer platform for hedge funds.

For the purpose of impairment testing, goodwill is allocated to each of the Group's CGU or group of CGUs that is expected to benefit from synergies of the business combination. Goodwill arising from the acquisition of EMC is allocated to EMC CGU, goodwill arising from the acquisitions of BEL, BidFX and MT are allocated to Currencies and commodities CGU, and goodwill arising from the acquisition of SB is allocated to Data and indices CGU.

The carrying amounts of goodwill allocated to the following CGUs as at 30 June were as follows:

	Group		
	2023 \$'000	2022 \$'000	
EMC	9,614	9,614	
Currencies and commodities	459,357	467,834	
Data and indices	233,894	230,842	
	702,865	708,290	

23 Goodwill (continued)

The recoverable amount of the goodwill was determined based on value-in-use calculation using the discounted cash flow model. Key inputs of the computation are as follows:

CGU – EMC	Key Inputs	Basis
Free cash flows	Management's forecasts of earnings and capital expenditure over a ten-year period.	Past performance and market developments
Long term growth rate	2% - 3.5% (2022: 2% - 3%)	Long term inflation and growth rate of Singapore
Discount rate	12.0% (2022: 11.5%)	Cost of capital to operate the Singapore electricity spot market
CGU – Currencies and commodities	Key Inputs	Basis
Free cash flows	Management's forecasts of earnings and capital expenditure over a ten-year period.	Past performance, expectations of growth in currencies and commodities contract volumes and market developments
Long term growth rate	3.5% (2022: 3%)	Long term growth rate of developed economies
Discount rate	11.5% (2022: 11%)	Cost of capital to operate the currencies and commodities market
CGU – Data and indices	Key Inputs	Basis
Free cash flows	Management's forecasts of earnings and capital expenditure over a ten-year period.	Past performance, expectations of growth in data and indices volumes and market developments
Long term growth rate	3.5% (2022: 3%)	Long term growth rate of developed economies
Discount rate	11.5% (2022: 11%)	Cost of capital to operate the data and indices market

23 Goodwill (continued)

Based on the value-in-use calculations, there is no impairment on goodwill (2022: Nil). While the estimated recoverable amount of the goodwill is sensitive to any change in key inputs to the value-in-use calculations, the change in the estimated recoverable amount from any reasonably possible changes on the key inputs do not cause the recoverable amount to be materially lower than its carrying amount.

24 Acquisition of business

MaxxTrader trading platform business

On 8 January 2022, SGX acquired the MaxxTrader ("MT") trading platform business.

Included in the identifiable assets and liabilities acquired at the date of acquisition of MT are inputs (proprietary software that supports a foreign exchange ("FX") pricing engine and multidealer platform, customer-related contracts and relationships), an organised workforce and processes. The Group has assessed and concluded that the acquired set is a business.

The principal activity of MT is the provision of FX pricing and risk solutions for sell-side institutions including banks and broker-dealers, as well as a multi-dealer platform for hedge funds. Together with wholly-owned subsidiary BidFX, this acquisition accelerates SGX's plan to build an integrated FX ecosystem and marketplace that facilitates global access to OTC and FX derivatives, and paves the way for SGX to become Asia's largest one-stop venue for international FX OTC and futures participants.

(1) Consideration

	\$'000
Cash paid	169,458
Contingent consideration	35,467
Total consideration	204,925
(2) Effect on cash flows of the Group	\$'000
Cash paid	169,458
Less: Cash and cash equivalents in business acquired	(2,949)
Cash outflow on acquisition	166,509

24 Acquisition of business (continued)

MaxxTrader trading platform business (continued)

(3) Identifiable assets acquired and liabilities assumed

	\$'000
Cash and cash equivalents	2,949
Trade and other receivables	1,328
Property, plant and equipment	70
Intangible assets	18,291
Total assets	22,638
Trade and other payables	1,281
Deferred tax liabilities	3,109
Total liabilities	4,390
Total identifiable net assets	18,248

(4) Goodwill

Goodwill arising from the acquisition has been recognised as follows:

	\$'000
Total consideration	204,925
Fair value of identifiable net assets	(18,248)
Goodwill	186,677

The goodwill of \$186,677,000 relates to synergies expected to arise from growth in the foreign exchange business as well as wider range of product offerings and clients for MT and SGX.

(5) Acquisition-related costs

Total acquisition-related costs amounted to \$3,320,000 of which \$404,000 are included in FY2022. These costs have been included in "Professional fees" and "Others".

(6) Acquired receivables

The fair value and gross contractual amount of Trade and other receivables is \$1,328,000.

24 Acquisition of business (continued)

MaxxTrader trading platform business (continued)

(7) Intangible assets

The intangible assets comprised proprietary software technology as well as customer contracts and relationships and were estimated to amount to \$18,291,000 based on relief-from-royalty method for proprietary software technology and multi-period excess earnings method for customer contracts and relationships. The relief-from-royalty method considers the discounted estimated royalty payments that are expected to be avoided as a result of the proprietary software technology being owned. The multi-period excess earnings method considers the present value of net cash flows expected to be generated by the customer-related intangibles, by excluding any cash flows related to contributory assets.

(8) Contingent consideration

The Group agreed to pay the selling shareholders additional consideration if MT reaches certain revenue targets in 2021 and 2022. As at 30 June 2022, the carrying amount of the contingent consideration was \$36,284,000 (Note 29). During the financial year ended 30 June 2023, the carrying amount of the contingent consideration was revised to \$20,588,000 to reflect the 2021 and 2022 actual revenue of MT and full settlement was based on the revised amount. Excluding effects of changes in foreign exchange rates, the change in the fair value of the contingent consideration of \$14,880,000 was recorded as "Other income" (Note 11).

(9) Revenue and profit contribution

MT contributed revenue of \$11,577,000 and net loss after tax of \$750,000 to the Group for the period from 8 January 2022 to 30 June 2022. Net loss after tax of \$750,000 included amortisation of intangible assets amounting to \$1,489,000. Had MT been consolidated from 1 July 2021, consolidated revenue and estimated net loss after tax for the year ended 30 June 2022 would have been \$22,697,000 and \$842,000 respectively.

25 Investments in subsidiaries

	Company		
	2023	2022	
	\$'000	\$'000	
Equity investments at cost			
Balance at beginning of financial year	1,063,997	851,721	
Capital injection	253,196	212,276	
	1,317,193	1,063,997	
I ama damma manaimaldan			
Long-term receivables	204.007	505.205	
Amount due from subsidiaries	286,987	505,387	
Balance at end of financial year	1,604,180	1,569,384	

The amount due from subsidiaries is interest-free and has no fixed terms of repayment.

Details of the subsidiaries are as follows:

Name of subsidiaries	Principal activities	Country of business and incorporation]	Equity	held b	V
	•	•	Comp 2023 %		Subsid	diaries 2022 %
Singapore Exchange Securities Trading Limited	Operating a securities exchange	Singapore	100	100	-	-
Singapore Exchange Derivatives Trading Limited	Operating a derivatives exchange	Singapore	100	100	-	-
The Central Depository (Pte) Limited	Providing clearing, counterparty guarantee, depository and related services for securities transactions	Singapore	100	100	_	-

Name of subsidiaries	Principal activities	Country of business and incorporation	1	Eauity	held by	v
runic of substanties	1 imelpar activities	incorporation		pany		, diaries
			2023		2023	
			%	%	%	%
Singapore Exchange Derivatives Clearing Limited	Providing clearing, counterparty guarantee and related services for derivatives transactions	Singapore	100	100	_	-
SGX Bond Trading Pte. Ltd.	Providing bond trading services	Singapore	100	100	-	-
Singapore Exchange Regulation Pte. Ltd.	Providing front-line regulatory functions	Singapore	100	100	-	-
Singapore Exchange IT Solutions Pte Limited	Providing computer services and software maintenance	Singapore	100	100	-	_
Asian Gateway Investments Pte. Ltd.	Investment holding	Singapore	100	100	-	-
Singapore Commodity Exchange Limited	Dormant	Singapore	100	100	-	-
SGX International Pte. Ltd.	Investment holding	Singapore	100	100	-	-
Securities Clearing and Computer Services (Pte) Limited	Investment holding	Singapore	100	100	-	-
Asian Gateway Investments (China) Pte. Ltd.	Investment holding	Singapore	-	-	100	100
SGX Baltic Investments Pte. Ltd.	Investment holding	Singapore	_	_	100	100
The Baltic Exchange Limited	Investment holding, membership services and provision of management services to related corporations	United Kingdom	-	_	100	100
Baltic Exchange Derivatives Trading Limited	Dormant	United Kingdom	-	-	100	100

Name of subsidiaries	Principal activities	Country of business and incorporation			held by	
				pany 2022 %	Subsice 2023 %	
Baltic Exchange Information Services Limited	Providing and distributing bulk freight market indices and information	United Kingdom	-	-	100	100
The Baltic Exchange (Asia) Pte. Ltd.	Distributing bulk freight market indices and information in Asia and membership services	Singapore	-	-	100	100
Energy Market Company Pte Ltd	Operating an electricity market	Singapore	_	_	100	100
Scientific Beta Pte. Ltd.	Providing management consultancy services of index activities	Singapore	-	-	93	93
Scientific Beta North America, Inc.	Providing services of index activities	United States of America	-	-	100	100
Scientific Beta (France) SAS	Providing services and administration for index calculation, risk analyses and financial research	France	-	-	100	100
Scientific Beta (Europe) Limited	Providing services of index activities	United Kingdom	_	-	100	100
Scientific Beta (ANZ) Pty Ltd	Providing services of index activities	Australia	_	_	100	_
BidFX Systems Ltd.	Providing electronic foreign exchange trading solutions and platform	United Kingdom	-	-	100	100
BidFX Systems Pte. Ltd.	Provision of management services to related corporations, sales and client support services	Singapore	-	-	100	100
BidFX Systems US LLC	Providing sales and client support services	United States of America	-	-	100	100
BidFX Systems Australia Pty. Ltd.	Providing sales and client support services	Australia	-	-	100	100
Asia Converge Pte Ltd	Investment holding	Singapore	_	_	100	100
Asiaclear Pte Ltd	Dormant	Singapore	_	_	100	100

Name of subsidiaries	Principal activities	Country of business and incorporation	Com		held by Subside 2023	
CDP Nominees Pte Ltd	Dormant	Singapore	_	_	100	100
Global Clear Pte Ltd	Dormant	Singapore	_	_	100	100
Joint Asian Derivatives Pte. Ltd.	Dormant	Singapore	_	_	100	100
SGX America Limited	Providing consultancy services	United States of America	-	-	100	100
Shanghai Yaxu Consultanc Company Limited	yProviding consultancy services	People's Republic of China	-	-	100	100
SGX General Counterparty Pte. Ltd.	Providing general counterparty services	Singapore	100	100	-	-
SGX FX Pte. Ltd.	Investment holding	Singapore	100	100	_	_
SGX FX Markets Pte. Ltd.	Operating an electronic communication network	Singapore	-	-	100	100
SGX Treasury I Pte. Ltd.	Investment holding	Singapore	_	_	100	100
SGX India Connect IFSC Private Limited	Providing financial services for dealing, trading and clearing of financial instruments	India	-	-	100	100
MaxxTrader Systems Pte. Ltd.	FX platform and providing FX pricing and risk solutions	Singapore	-	-	100	100
MaxxTrader Systems UK Limited	Providing sales support services relating to FX platform business		-	-	100	100
LLFX Technologies Private Limited	e Providing research and development support services relating to FX platform business	India	-	-	100	100
MaxxTrader Kabushiki Kaisha	Providing sales support services relating to FX platform business	Japan	_	_	100	100
MaxxTrader Systems US LLC	Providing sales support services relating to FX platform business	United States	-	-	100	100

KPMG LLP is the auditor of all significant subsidiaries. For this purpose, a subsidiary is considered significant as defined under the Singapore Exchange Limited Listing Manual if its net tangible assets represent 20% or more of the Group's consolidated net tangible assets, or if its pre-tax profits account for 20% or more of the Group's consolidated pre-tax profits.

	Group	
	2023 \$'000	2022 \$'000
Carrying value of non-controlling interests	\$ 000	Ψ 000
Subsidiary with immaterial non-controlling interests - Scientific Beta Pte. Ltd.	2,707	5,057

26 Investments in associated companies

	Group		Comp	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Investments in associated				
companies	38,226	47,549	4,389	4,389

Details of the associated companies held by the Group and the Company are as follows:

		Country of business and		
Name of company	Principal activities	incorporation	Equit	y held
- •	-	-	2023	2022
			%	%
Held by the Group through a subsidiary				
Capbridge Pte. Ltd.	Shares, stocks and bonds broking	Singapore	6.8 ^(a)	7.2 ^(a)
1x Exchange Pte. Ltd.	Operating private market platform	Singapore	10.2 ^(a)	10.9 ^(a)
Commodities Intelligence Centre Pte. Ltd.	Operating e-commerce platform	Singapore	10.0 ^(a)	10.0 ^(a)

26 Investments in associated companies (continued)

		Country of business and		
Name of company	Principal activities	incorporation		y held
			2023	2022
Held by the Group through a subsidiary			%	%
ICHX Tech Pte. Ltd.	Operating capital markets platform	Singapore	9.2 ^(a)	9.7 ^(a)
Freightos Limited	Operating online freight marketplace	Cayman Islands	_(b)	13.3 ^(a)
Agridence Pte. Ltd. (formerly known as HeveaConnect Pte. Ltd.)	Commodities trading platform	Singapore	6.6 ^(a)	9.1 ^(a)
Wilshire Benchmarks TopCo Limited	Global provider of indexes	United Kingdom	9.7 ^(a)	_
Held by the Company				
Philippines Dealing System Holdings Corp	Investment holding	Philippines	20.0	20.0

⁽a) Where the voting rights are less than 20%, the presumption that the entity is not an associated company is overcome if the Group has significant influence including representation on the board of directors or participation in policymaking process of the investee.

There was no associated company that was individually material to the Group (2022: Nil).

The following table summarises, in aggregate, the Group's share of loss and other comprehensive income of the Group's individually immaterial associated companies accounted for using the equity method:

	Gr	roup	
	2023	2022	
	\$'000	\$'000	
Carrying amount of interests			
Net loss from continuing operations	(442)	(4,144)	
Total comprehensive income	(442)	(4,144)	

There is no contingent liability relating to the Group's interest in the associated companies (2022: Nil).

⁽b) Reclassified to Financial asset, at FVPL during the financial year.

27 Investments in joint ventures

U	G	Froup
	2023 \$'000	2022 \$'000
Investments in joint ventures	10,140	10,542

Details of the joint ventures held by the Group through a subsidiary are as follows:

		Country of business and		
Name of company	Principal activities	incorporation	-	y held
			2023 %	2022 %
SGX MySteel Index Company Private Limited	Indexation and benchmarking of commodities	Singapore	50	50
MarketNode Pte. Ltd.	Operating a digital asset issuance platform and development of digital assets	Singapore	65 ^(a)	65 ^(a)
XinTru Pte. Ltd.	Operation of electronic bond trading platform	Singapore	33	33
Verified Impact Exchange Holdings Pte. Ltd.	Establishment and operation of an international marketplace and exchange for the listing and trading of voluntary carbon credits	Singapore	24 ^(a)	24 ^(a)

⁽a) Unanimous consent is required for key relevant activities of the entity. Accordingly, the entity is accounted for as an investment in joint venture due to presence of joint control.

There was no joint venture that was individually material to the Group (2022: Nil).

The following table summarises, in aggregate, the Group's share of loss and other comprehensive income of the joint ventures accounted for using the equity method:

	Gr	oup
	2023 \$'000	2022 \$'000
Carrying amount of interests		
Loss from continuing operations	(15,115)	(6,390)
Total comprehensive income	(15,115)	(6,390)

There is no contingent liability relating to the Group's interest in the joint ventures (2022: Nil).

28 Loan receivable

	Group		Company	
	2023 2022		2023	2022
	\$'000	\$'000	\$'000	\$'000
Non-current				
Loan receivable from external				
party _	_	9,036	_	9,036

The loan receivable as at 30 June 2022 from an external party was secured and interest bearing at SOFR plus 3% per annum. The full amount was repaid during the financial year ended 30 June 2023.

29 Trade and other payables

	Gro	up	Company		
	2023	023 2022	2023	2022	
	\$'000	\$'000	\$'000	\$'000	
Current					
Trade payables (Note (a))	934,135	999,178	3,988	5,014	
Other payables (Note (b))	202,436	226,892	77,150	77,873	
Amount due to subsidiaries					
(non-trade) (Note (c))	_	_	156,534	66,476	
Contingent consideration					
(Note 24)	_	36,284	_	_	
	1,136,571	1,262,354	237,672	149,363	
_					
Non-current					
Other payables					
- Amount due to a subsidiary					
(non-trade) (Note (d))	_	_	_	63,474	
_	_	_	_	63,474	

Trade and other payables (continued)

(a) Trade payables comprise:

	Grou	ıp	Company		
	2023 2022 \$'000 \$'000		2023 \$'000	2022 \$'000	
Payables to clearing members and settlement banks - Daily settlement of accounts for due contracts and rights					
(Note 14(a))	319,639	573,867	_	_	
Payables under NEMS					
(Note 15)	455,484	300,734	_	_	
Other trade payables	159,012	124,577	3,988	5,014	
	934,135	999,178	3,988	5,014	

The payables to clearing members and settlement banks represent the net settlement obligations by CDP. The corresponding net settlement obligations by clearing members and settlement banks to CDP are disclosed in Note 14(a).

(b) Other payables comprise:

	Gro	up	Company	
	2023	2022	2023	2022
	\$'000	\$'000	\$'000	\$'000
Accrual for operating expenses	88,834	91,991	29,690	29,510
Accrual for bonus	81,388	77,218	44,464	43,553
Defined contribution plans				
payable	1,832	2,199	1,144	1,381
Advance receipts	16,308	20,225	_	_
Sundry creditors	3,242	5,735	_	972
Escrow payable (Note 13,				
14(b))	5,294	22,443	_	_
Others (non-trade)	5,538	7,081	1,852	2,457
	202,436	226,892	77,150	77,873

⁽c) The amounts due to subsidiaries are unsecured, non-interest bearing and repayable on demand.

⁽d) The amount due to a subsidiary is unsecured, non-interest bearing with no fixed terms of repayment.

30 Loans and borrowings

	Group		Comp	any
	2023	2022	2023	2022
	\$'000	\$'000	\$'000	\$'000
Current				
Unsecured bank borrowings	_	41,858	_	41,858
Convertible bonds (Note(a))	351,883	_	_	_
Intra-group financial guarantee				
(Note (c))	_	_	1,093	_
	351,883	41,858	1,093	41,858
Non-current				
Convertible bonds (Note(a))	_	345,721	_	_
Medium term notes (Note(b))	340,040	348,214	340,040	348,214
Intra-group financial guarantee				
(Note (c))	_	_	_	2,698
	340,040	693,935	340,040	350,912
	· · · · · · · · · · · · · · · · · · ·		·	

The exposure of the Group and the Company to interest rate, currency and liquidity risk is disclosed in Note 48.

Terms and debt repayment schedule

The terms and conditions of outstanding loans and borrowings are as follows:

				20	23	20)22
	Currency	Weighted average interest rate	Year of maturity	Face value \$'000	Carrying amount \$'000	Face value \$'000	Carrying amount \$'000
Group Convertible		0.44% (2022:					
bonds	EUR	0.44%)	2024	356,423	351,883	351,773	345,721
Medium term notes	USD	1.29% (2022: 1.29%)	2026	339,199	340,040	347,550	348,214
Unsecured bank borrowings	USD	NA (2022: 0.60% - 0.71%)	2022	_	_	41,858	41,858
Z .		,	- -	695,622	691,923	741,181	735,793
Company Medium term notes	USD	1.29% (2022: 1.29%)	2026	339,199	340,040	347,550	348,214
Unsecured bank borrowings	USD	NA (2022: 0.60% - 0.71%)	2022	_	_	41,858	41,858
			_	339,199	340,040	389,408	390,072

30 Loans and borrowings (continued)

(a) Convertible bonds

EUR 240,000,000 of zero-coupon convertible bonds were issued on 1 March 2021 with maturity date on 1 March 2024. The bonds are convertible into ordinary shares at any time on or after 11 April 2021 up to 21 February 2024 at the option of the bond holder at the current conversion price of \$12.2640 per share. The conversion price is subjected to adjustment upon occurrence of certain trigger events set out in the terms and conditions of the bonds offering. Any unconverted bonds will be redeemed by the issuer at its principal amount on 1 March 2024.

Information on beneficial holdings unavailable

The global certificate representing the Convertible Bonds is registered in the name of The Bank of New York Depository (Nominees) Limited. Information on the beneficial holdings of the convertible bonds is unavailable.

Use of proceeds

The Company had announced on 2 February 2021 that the estimated proceeds from the issuance of the Convertible Bonds (before fees and expenses related to such issuance) of approximately EUR242,400,000 were to be allocated as to approximately 80% for refinancing of existing debt and as to approximately 20% for general corporate purposes. Pursuant to Rule 704(30) of the Listing Manual, the Company subsequently announced on 2 March 2021 that there had been a change in the use of the proceeds from the issuance of the Convertible Bonds in that the portion of the proceeds from the issuance which the Company had originally allocated for general corporate purposes had been used to repay part of an existing loan and that accordingly, 100% of the net proceeds of the issuance of the Convertible Bonds had been used for the refinancing of existing debt. The Company stated that it was of the view that this reallocation was in the best interests of the Company and its shareholders as there was no immediate or near-term need to utilise such proceeds for general corporate purposes. The Company also announced at the same time that all of the net proceeds from the issuance of the Convertible Bonds had been fully utilised.

30 Loans and borrowings (continued)

(b) Medium term notes

USD 250,000,000 of medium term notes were issued on 3 September 2021 with maturity date on 3 September 2026. The unsecured notes issued under SGX's SGD 1.5 billion multicurrency debt issuance programme, bear interest at a fixed rate of 1.234 per cent per annum payable semi-annually in arrears on 3 March and 3 September each year.

	Group \$'000
Proceeds from issue of medium term notes	335,525
Transaction costs	(876)
Net proceeds	334,649
Accrued interest	3,635
Interest paid	(2,075)
Effects of changes in foreign exchange rates	12,005
Carrying amount as at 30 June 2022	348,214
Accrued interest	4,373
Interest paid	(4,210)
Effects of changes in foreign exchange rates	(8,337)
Carrying amount as at 30 June 2023	340,040

(c) Intra-group financial guarantee

Intra-group financial guarantee comprises a guarantee given by the Company in respect of due payment of all sums in relation to the convertible bonds amounting to EUR 240,000,000 issued by a wholly-owned subsidiary maturing on 1 March 2024. At the reporting date, the Company has not recognised a provision for expected credit losses as the amount of expected credit losses was lower than the amortised liability for the intra-group financial guarantee contract. The Company does not consider it probable that a claim will be made against the Company under the guarantee. The carrying amount represented the initial fair value less the cumulative amount of income recognised.

30 Loans and borrowings (continued)

(d) Reconciliation of movements of liabilities to cash flows from financing activities

	Convertible bonds \$'000	Medium term notes \$'000	Unsecured bank borrowings \$'000	Total \$'000
As at 1 July 2022	345,721	348,214	41,858	735,793
Financing cash flows				
Repayment of borrowings	_	(4.210)	(41,241)	(41,241)
Interest paid	_	(4,210) (4,210)	(242) (41,483)	(4,452) (45,693)
		(4,210)	(41,463)	(43,093)
Non-cash changes Effect of changes in foreign				
exchange rates	4,605	(8,337)	(469)	(4,201)
Interest expense	1,557	4,373	94	6,024
	6,162	(3,964)	(375)	1,823
As at 30 June 2023	351,883	340,040		691,923
As at 1 July 2021	379,003	_	88,758	467,761
Financing cash flows Net proceeds from issuance of				
medium term notes	_	334,649	_	334,649
Proceeds from borrowings	_	_	82,014	82,014
Repayment of borrowings	_	_	(129,928)	(129,928)
Interest paid		(2,075)	(265)	(2,340)
	_	332,574	(48,179)	284,395
Non-cash changes Effect of changes in foreign				
exchange rates	(34,931)	12,005	867	(22,059)
Interest expense	1,649	3,635	412	5,696
	(33,282)	15,640	1,279	(16,363)
As at 30 June 2022	345,721	348,214	41,858	735,793

31 Lease liabilities

	Grou	ıp	Compa	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Current lease liabilities	20,470	22,140	18,290	20,201
Non-current lease liabilities	14,828	30,938	11,622	29,537
	35,298	53,078	29,912	49,738

The exposure of the Group and the Company to interest rate, currency and liquidity risk is disclosed in Note 48.

(a) Repayment schedule of lease liabilities

	Payment \$'000	Interest \$'000	Principal \$'000
Group 2023			
Within 1 year	21,210	740	20,470
After 1 year but within 5 years	15,321	693	14,628
After 5 years	202	2	200
	36,733	1,435	35,298
2022			
Within 1 year	23,283	1,143	22,140
After 1 year but within 5 years	31,847	909	30,938
After 5 years	_	_	_
	55,130	2,052	53,078
Company 2023			
Within 1 year	18,859	570	18,290
After 1 year but within 5 years	11,976	353	11,622
After 5 years			
	30,835	923	29,912
2022			
Within 1 year	21,300	1,099	20,201
After 1 year but within 5 years	30,432	895	29,537
After 5 years		_	
	51,732	1,994	49,738

Lease liabilities (continued) 31

(b) Reconciliation of liabilities arising from financing activities

	Lease liabilities Group		
	2023 \$'000	2022 \$'000	
Balance at beginning of financial year	53,078	71,422	
Financing cash flows			
Repayment of lease liabilities	(24,429)	(23,142)	
	(24,429)	(23,142)	
Non-cash changes			
New leases	5,384	3,129	
Reassessment and modifications	5	33	
Interest expense (Note 11)	1,227	1,688	
Effect of changes in foreign exchange rates	33	(52)	
	6,649	4,798	
Balance at end of financial year	35,298	53,078	

32 Income taxes

(a) Income tax expense

	Grou	р	Comp	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Tax expense attributable to profit is made up of:				
- current income tax	112,191 ^(a)	99,631	2,039	4,486
- deferred income tax	(9,301)	(6,229)	109	(983)
_	102,890	93,402	2,148	3,503
Under/(over) provision in prior financial years:		·		·
- current income tax	358	$(1,110)^{(b)}$	_	_
- deferred income tax	9	395	_	_
_	103,257	92,687	2,148	3,503

^(a) Includes \$533,000 utilisation of tax receivables under Trade and other receivables. ^(b) Includes \$1,377,000 of tax receivables under Trade and other receivables.

(b) <u>Tax reconciliation</u>

The tax expense on profit differs from the amount that would arise using the Singapore rate of income tax due to the following:

C	Grou	ıp	Company		
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	
Profit before tax and share of results of associated	689,379	555,122	478,931	408,213	
companies and joint ventures_	009,379	333,122	4/0,931	400,213	
Tax calculated at a tax rate of	44= 404	0.4.254	04.440	50.005	
17% (2022: 17%)	117,194	94,371	81,418	69,396	
Tax effect of:					
Singapore statutory income					
exemption	(192)	(167)	(17)	(17)	
Income not subject to tax	(14,965)	(3,193)	(79,131)	(66,285)	
Tax incentives and rebates	(1,616)	(1,406)	(1,243)	(643)	
Expenses not deductible for tax					
purposes	2,654	2,040	564	782	
Different tax rates in other					
countries	1,015	1,132	_	_	
Others	(1,200)	625	557	270	
Under/(over) provision in prior	() /				
financial years	367	(715)	_	_	
- _	103,257	92,687	2,148	3,503	

(c) <u>Movements in provision for tax</u>

-	Grou	ıp	Company		
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	
Balance at beginning of					
financial year	99,939	99,634	5,678	4,946	
Income tax paid	(98,908)	(99,094)	(3,274)	(3,754)	
Tax expense on profit for the					
financial year	111,658	99,631	2,039	4,486	
Under provision in prior					
financial years	358	267	_	_	
Utilisation of losses and capital					
allowances (a)	_	(578)	_	_	
Currency translation	(235)	79	_	_	
Balance at end of financial year	112,812	99,939	4,443	5,678	

⁽a) This arises from transfer of prior year's tax losses and unutilised capital allowances between entities within the Group.

(d) <u>Deferred income tax</u>

The following amounts, determined after appropriate offsetting, are shown in the statement of financial position:

	Grou	p	Compa	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Deferred tax assets: - to be recovered within 12				
months - to be recovered after 12	6,008	5,082	3,518	3,541
months	2,231	2,203	1,623	2,183
	8,239	7,285	5,141	5,724
- Effect of offsetting	(8,239)	(7,285)	(5,141)	(5,724)
·	_	_	_	_
Deferred tax liabilities:				
- to be settled within 12	14555	10.620	2.406	0.504
months	14,555	10,628	2,486	2,524
- to be settled after 12 months	48,730	76,125	4,615	4,960
	63,285	86,753	7,101	7,484
- Effect of offsetting	(8,239)	(7,285)	(5,141)	(5,724)
	55,046	79,468	1,960	1,760

(d) <u>Deferred income tax</u> (continued)

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

<u>The Group – deferred tax assets</u>

	Unuti tax lo		Emplo share p	•	Unutilise	ed leave	Othe	ers	Tot	al
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Balance at beginning of financial year	1,129	857	4,483	3,821	1,128	1,569	545	700	7,285	6,947
Credited/(charged) to profit or loss	1,297	850	(367)	904	268	(441)	(145)	(155)	1,053	1,158
Utilisation of losses and capital allowances (a)	_	(578)	_	_	_	_	_	_	_	(578)
Charged to equity	_	_	(91)	(242)	_	_	_	_	(91)	(242)
Currency translation	(8)	_	_	_	_	_	_	_	(8)	=
Balance at end of financial year	2,418	1,129	4,025	4,483	1,396	1,128	400	545	8,239	7,285

⁽a) This arises from transfer of prior year's tax losses and unutilised capital allowances between entities within the Group.

The Group - deferred tax liabilities

	Cash hedge r		Accelera deprec		arising fro	ole assets m business nations	Financia at FV	,	Oth	ers	To	otal
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Balance at beginning of financial year Acquisition from subsidiary	(236)	(143)	25,365	26,515 —	23,052	24,819 3,109	38,158 -	21,391	414	821	86,753	73,403 3,109
Credited to profit or loss (Credited)/charged to equity	- 49	(93)	(2,884)	(1,144)	(5,107)	(3,125)	(15,948)	- 16.767	(248)	(407)	(8,239) (15,899)	(4,676) 16,674
Currency translation	4 2	(93)	53	(6)	615	(1,751)	(13,946)	10,707	2	_	670	(1,757)
Balance at end of financial year	(187)	(236)	22,534	25,365	18,560	23,052	22,210	38,158	168	414	63,285	86,753

(d) <u>Deferred income tax</u> (continued)

The Company - deferred tax assets

	Employee sh	Employee share plans		Unutilised leave C		ers	Tota	al
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Balance at beginning of financial year (Charged)/credited to profit or loss	4,483 (367)	3,821 904	837	1,159 (322)	404 (129)	404	5,724 (492)	5,384 582
Charged to equity Balance at end of financial year	(91) 4,025	(242) 4,483	 	837	(129) 275	404	(91) 5,141	(242)

The Company - deferred tax liabilities

	Accelerat depreci		Tota	al
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Balance at beginning of financial year	7,484	7,885	7,484	7,885
Credited to profit or loss	(383)	(401)	(383)	(401)
Balance at end of financial year	7,101	7,484	7,101	7,484

(d) <u>Deferred income tax</u> (continued)

Deferred tax assets have not been recognised in respect of the following items:

	Gı	oup
	2023 \$'000	2022 \$'000
Tax losses	22,574	22,585

These items principally relate to four (2022: four) entities within the Group which are dormant.

Deferred tax assets have not been recognised in respect of these items as it is not probable that future taxable profits will be available against which the Group can utilise the benefits. The tax losses are subject to the relevant provisions of the Singapore Income Tax Act and confirmation by the tax authorities.

(e) <u>Tax effects on other comprehensive income</u>

	D 4	Group Tax benefit/	N
	Before tax \$'000	(liability) \$'000	Net of tax \$'000
2023	4 000	* ***	4 000
Other comprehensive income			
Foreign exchange translation	(10,056)	_	(10,056)
Fair value gains and transferred to profit or loss on			
cash flow hedges	566	(49)	517
Fair value losses on financial assets, at FVOCI	(77,849)	15,948	(61,901)
	(87,339)	15,899	(71,440)
2022			
Other comprehensive income			
Foreign exchange translation	(318)	_	(318)
Fair value losses and transferred to profit or loss on			
cash flow hedges	(1,241)	93	(1,148)
Fair value gains on financial assets, at FVOCI	81,318	(16,767)	64,551
	79,759	(16,674)	63,085

33 Provisions

	Grou	ıp	Compa	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Provision for SGX-MAS Market Development	\$ 000	Ψ 000	\$ 000	Ψ 000
Scheme (Note (a))	1,802	1,802	_	_
Provision for unutilised leave (Note (b))	8,249	8,035	4,894	4,925
Provision for dismantlement, removal or restoration of property, plant and				
equipment (Note (c))	3,961	3,964	3,786	3,786
_	14,012	13,801	8,680	8,711

(a) <u>Provision for SGX-MAS Market Development Scheme</u>

Provision for SGX-MAS Market Development Scheme is used to fund projects that raise awareness of the securities and derivatives market among investors.

(b) <u>Provision for unutilised leave</u>

Provision for unutilised leave is the estimated liability for annual leave as a result of services rendered by employees up to the balance sheet date.

	Grou	і р	Company		
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	
Balance at beginning of					
financial year	8,035	11,592	4,925	6,820	
Acquisition of business	_	190	_	_	
Provision/(utilisation) made					
during the financial year, net	214	(3,747)	(31)	(1,895)	
Balance at end of financial year	8,249	8,035	4,894	4,925	

(c) Provision for dismantlement, removal or restoration of property, plant and equipment

Provision for dismantlement, removal or restoration of leased premises is expected to be utilised upon return of leased premises.

	Grou	ı p	Company		
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000	
Balance at beginning of					
financial year	3,964	3,805	3,786	3,786	
Acquisition of business	_	159	_	_	
Currency translation	(3)	_	_		
Balance at end of financial year	3,961	3,964	3,786	3,786	

34 Other liabilities

	Grou	Group		
	2023 \$'000	2022 \$'000		
Forward liability to acquire non-controlling interests (Note (a))	14,774	37,583		
Deferred revenue (Note 19)	14,695	14,629		
	29,469	52,212		

(a) Arising from the acquisition of Scientific Beta Pte. Ltd. ("SB"), the forward liability relates to a put and call option agreement with the non-controlling shareholder of SB to acquire its 7% equity interests in SB. Refer to Note 2.2(3) on the accounting policy relating to the forward liability.

As at 30 June 2023, the forward liability has decreased from \$37,583,000 to \$14,774,000 due to decline in SB performance. Excluding effects of changes in foreign exchange rates, the resultant fair value gain of \$23,306,000 was recognised for the financial year (Note 11).

35 Share capital

(a) Share capital and treasury shares

Group and Company

	Number o	of shares	Amount		
	Issued shares '000	Treasury shares '000	Share Capital \$'000	Treasury shares \$'000	
2023					
Balance at beginning of					
financial year	1,071,642	3,657	427,365	(34,640)	
Purchase of treasury shares	_	2,115	_	(18,613)	
Vesting of shares under share-					
based remuneration plans	_	(2,107)	(4,303)	20,797	
Vesting of shares under					
restricted share plan	_	(11)	(6)	100	
Tax effect on treasury shares	_	_	_	(91)	
Balance at end of financial					
year	1,071,642	3,654	423,056	(32,447)	

35 Share capital (continued)

(a) <u>Share capital and treasury shares</u> (continued)

Group and Company (continued)

	Number o	of shares	Amount		
	Issued shares '000	Treasury shares '000	Share Capital \$'000	Treasury shares \$'000	
2022					
Balance at beginning of					
financial year	1,071,642	2,752	430,413	(25,189)	
Purchase of treasury shares	_	2,947	_	(27,719)	
Vesting of shares under share-					
based remuneration plans	_	(2,008)	(3,021)	18,157	
Vesting of shares under					
restricted share plan	_	(34)	(27)	353	
Tax effect on treasury shares	_	_	_	(242)	
Balance at end of financial					
year	1,071,642	3,657	427,365	(34,640)	

All issued ordinary shares are fully paid. There is no par value for these ordinary shares.

Fully paid ordinary shares carry one vote per share and carry a right to dividends as and when declared by the Company, except for shares held as treasury shares.

The Company purchased 2,115,000 of its shares (2022: 2,947,000) in the open market during the financial year. The total amount paid to purchase the shares was \$18,613,000 (2022: \$27,719,000). The Company holds the shares bought back as treasury shares.

35 Share capital (continued)

(b) <u>Performance share plans</u>

(i) Outstanding performance shares

Details of performance shares awarded to participants at the balance sheet date are as follows:

Group and Company							
Number of shares	FY2018 grant*	FY2019 grant*	FY2020 grant**	FY2021 grant**	FY2022 grant**	FY2023 grant**	Total
2023							
Balance at beginning of financial							
year	_	654,200	668,800	676,000	535,300	_	2,534,300
Granted	_	_	_	_		715,100	715,100
Additional award at							
vesting	_	233,900	_	_	_	_	233,900
Vested	_	(888,100)	_	_	_	=	(888,100)
Lapsed _			(9,500)	(8,900)	(5,500)		(23,900)
Balance at end							
of financial			<i>(5</i> 0, 200	667 100	520 800	715 100	2 571 200
year _		-	659,300	667,100	529,800	715,100	2,571,300
2022							
Balance at							
beginning							
of financial							
year	602,200	673,600	687,600	707,400	_	_	2,670,800
Granted	_	_	_	_	564,900	_	564,900
Additional award at							
vesting	52,700	1,300	900	900	_	_	55,800
Vested	(654,900)	(4,900)	(3,500)	(3,500)	_	_	(666,800)
Lapsed		(15,800)	(16,200)	(28,800)	(29,600)		(90,400)
Balance at end of financial							
year	_	654,200	668,800	676,000	535,300	_	2,534,300
=		,	,		,		, ,

^{*} The number of shares vested represents the level of achievement against the performance conditions. Performance targets exceeded for FY2018 and FY2019 grant. Accordingly, additional shares were awarded for vesting.

The terms of the performance share plans are set out in the Directors' Statement under the caption "SGX Performance Share Plan".

^{**} Represents the number of shares required if participants are to be awarded at 100% of the grant. However, the shares to be awarded at the vesting date may range from 0% to 150% of the grant, depending on the level of achievement against the performance conditions.

35 Share capital (continued)

(b) <u>Performance share plans</u> (continued)

(ii) Fair value of performance shares

The fair value of the performance shares at grant date and the key assumptions of the fair value model for the grants were as follows:

	FY2023 grant	FY2022 grant	FY2021 grant	FY2020 grant	FY2019 grant
Date of grant	18.08.2022	16.08.2021	17.08.2020	15.08.2019	15.08.2018
Vesting date	01.09.2026	01.09.2025	01.09.2024	01.09.2023	01.09.2022
Number of performance shares at grant date	715,100	564,900	732,200	711,000	696,500
Fair value per performance share at grant date	\$8.78	\$9.55	\$7.37	\$7.08	\$7.46
Assumptions under Monte-Carlo Model					
Expected volatility					
Shares of Singapore Exchange Limited	22.42%	22.30%	22.00%	14.20%	15.82%
Shares of selected peer exchanges	22.42% to	22.40% to	21.30% to	14.80% to	15.62% to
	45.84%	78.60%	41.90%	31.40%	31.96%
Shares of Straits Times Index peer	19.82% to	19.80% to	19.40% to	13.10% to	15.75% to
companies	36.96%	45.20%	40.70%	39.30%	34.91%
Historical volatility period	36 months				
Risk-free interest rate	2.60%	0.64%	0.39%	1.62%	2.04%
Date on which yield of Singapore government bond was based	18.08.2022	16.08.2021	17.08.2020	15.08.2019	15.08.2018
Term (years)	3	3	3	3	3
Expected dividend yield based on management's forecast	3.20%	2.96%	3.70%	3.64%	4.04%
Share price reference	\$10.00	\$10.82	\$8.64	\$8.25	\$7.43

(c) <u>Deferred long-term incentives scheme</u>

(i) Outstanding deferred long-term incentives shares

Details of deferred long-term incentives shares awarded to recipients at the balance sheet date are as follows:

	Group and Company							
Number of shares 2023	FY2020 award	FY2021 award	FY2022 award	FY2023 award	Total			
Balance at beginning of financial year	420.664	875,530	1,092,500	_	2,388,694			
Awarded	-	-	-	1,469,000	1,469,000			
Vested	(419,664)	(436,804)	(362,721)	_	(1,219,189)			
Lapsed	(1,000)	(15,942)	(25,304)	(40,800)	(83,046)			
Balance at end of financial year	_	422,784	704,475	1,428,200	2,555,459			

(c) <u>Deferred long-term incentives scheme</u> (continued)

(i) Outstanding deferred long-term incentives shares (continued)

	Group and Company				
Number of shares	FY2019 award	FY2020 award	FY2021 award	FY2022 award	Total
2022					
Balance at beginning					
of financial year	416,632	898,985	1,419,400	_	2,735,017
Awarded		_	_	1,168,900	1,168,900
Vested	(416,632)	(450,283)	(474,132)	_	(1,341,047)
Lapsed		(28,038)	(69,738)	(76,400)	(174,176)
Balance at end of					
financial year		420,664	875,530	1,092,500	2,388,694

The terms of the deferred long-term incentives scheme are set out in the Directors' Statement under the caption "SGX Deferred Long-Term Incentives Scheme".

(ii) Fair value of deferred long-term incentives shares

The fair value of deferred long-term incentives shares was estimated by the present value of the share price adjusted for future expected dividends. The fair value of shares at award date and the key assumptions of the fair value model for the awards were as follows:

FY2023 Award

Date of award	•	18.08.2022	
Vesting date	01.09.2023	01.09.2024	01.09.2025
Number of shares at award date	489,584	489,584	489,832
Fair value per deferred long-term incentives share at award date	\$9.68	\$9.38	\$9.07
Assumptions used in fair value model			
Risk-free interest rate	2.81%	2.61%	2.59%
Date on which yield of Singapore government bond was based	18.08.2022	18.08.2022	18.08.2022
Expected dividend yield based on management's forecast	3.20%	3.20%	3.20%
Share price reference	\$10.00	\$10.00	\$10.00

(c) <u>Deferred long-term incentives scheme</u> (continued)

(ii) Fair value of deferred long-term incentives shares (continued)

FY2022 Award

Date of award	•	16.08.2021	
Vesting date	01.09.2022	01.09.2023	01.09.2024
Number of shares at award date	389,546	389,546	389,808
Fair value per deferred long-term incentives share at award date	\$11.11	\$10.79	\$10.47
Assumptions used in fair value model			
Risk-free interest rate	0.30%	0.51%	0.67%
Date on which yield of Singapore government bond was based	16.08.2021	16.08.2021	16.08.2021
Expected dividend yield based on management's forecast	2.96%	2.96%	2.96%
Share price reference	\$10.82	\$10.82	\$10.82
FY2021 Award Date of award		17.08.2020	
	01.00.2021		01.00.2022
Vesting date	01.09.2021	01.09.2022	01.09.2023
Number of shares at award date	492,193	492,193	492,414
Fair value per deferred long-term incentives share at award date	492,193 \$8.16	492,193 \$7.84	492,414 \$7.52
Fair value per deferred long-term incentives			
Fair value per deferred long-term incentives share at award date Assumptions used in fair value model Risk-free interest rate			
Fair value per deferred long-term incentives share at award date Assumptions used in fair value model	\$8.16	\$7.84	\$7.52
Fair value per deferred long-term incentives share at award date Assumptions used in fair value model Risk-free interest rate Date on which yield of Singapore government	\$8.16 0.25%	\$7.84 0.29%	\$7.52 0.39%

(c) <u>Deferred long-term incentives scheme</u> (continued)

(ii) Fair value of deferred long-term incentives shares (continued)

FY2020 Award

Date of award	•	15.08.2019	
Vesting date	01.09.2020	01.09.2021	01.09.2022
Number of shares at award date	482,009	482,009	482,182
Fair value per deferred long-term incentives share at award date	\$7.71	\$7.41	\$7.13
Assumptions used in fair value model			
Risk-free interest rate	1.67%	1.63%	1.62%
Date on which yield of Singapore government bond was based	15.08.2019	15.08.2019	15.08.2019
Expected dividend yield based on management's forecast	3.64%	3.64%	3.64%
Share price reference	\$8.25	\$8.25	\$8.25
FY2019 Award			
Date of award	•	15.08.2018	
Vesting date	01.09.2019	01.09.2020	01.09.2021
Number of shares at award date	459,896	459,896	460,008
Fair value per deferred long-term incentives share at award date	\$7.14	\$6.84	\$6.56
Assumptions used in fair value model			
Risk-free interest rate	1.74%	1.95%	2.07%
Date on which yield of Singapore government bond was based	15.08.2018	15.08.2018	15.08.2018
Expected dividend yield based on management's forecast	4.04%	4.04%	4.04%

(d) <u>Restricted Share Plan</u>

Details of restricted share plan ("RSP") awarded to recipients at the balance sheet date are as follows:

	Group and Company	
	2023	2022
Number of shares		
Balance at beginning of financial year	_	_
Awarded	10,735	33,975
Vested	(10,735)	(33,975)
Balance at end of financial year		_

The terms of the RSP are set out in the Directors' Statement under the caption "SGX Restricted Share Plan".

The RSP award relates to approximately one-quarter of the Group's Chairman fees and approximately one-quarter of selected non-executive directors' basic fees (collectively known as "Fees") which were paid in shares in lieu of cash. The Group's FY2023 Chairman fees were paid entirely in cash.

The number of shares to be awarded was estimated by Fees divided by volume weighted average share price of SGX share listed on the Singapore Exchange Securities Trading Limited over 14 trading days immediately following the date of the Annual General Meeting on 6 October 2022 (FY2022 award: 7 October 2021).

36 Capital reserve

•	Group	
	2023 \$'000	2022 \$'000
Equity component of convertible bonds, net of tax	3,989	3,989

37 Other reserve

Group		
2023	2022	
\$'000	\$'000	
40,506	40,506	

Refer to Note 2.2(3) on the accounting policy relating to the forward liability.

38 Dividends

	Group and (2023 \$'000	Company 2022 \$'000
Interim tax-exempt dividends of 24.0 cents (2022: 24.0 cents) per share Proposed final tax-exempt dividends of 8.5 cents (2022: 8.0	256,490	256,580
cents) per share	90,779	85,439
	347,269	342,019

The directors have proposed a final tax-exempt dividend for the financial year ended 30 June 2023 of 8.5 cents (2022: 8.0 cents) per share amounting to a total of \$90,779,000 (2022: \$85,439,000). The proposed dividend has been transferred from retained profits to proposed dividends reserve.

39 Segment information

Management determines the operating segments based on the reports reviewed and used by the Executive Management Committee for performance assessment and resources allocation.

The Group operates primarily in Singapore and is organised into four segments as follows:

- (i) Fixed Income, Currencies and Commodities Provision of fixed income issuer services, trading and clearing services and collateral management.
- (ii) Equities Provision of issuer services, securities trading and clearing, securities settlement and depository management, derivatives trading and clearing and collateral management.
- (iii) Data, Connectivity and Indices Provision of market data, connectivity and indices services.
- (iv) Corporate Non-operating segment comprising corporate activities which are not allocated to the three operating segments described above.

Segment performance is evaluated based on operating profits of the segment. Management monitors the operating results of the segments for the purpose of making decisions on performance assessment and resource allocation.

39 Segment information (continued)

	Fixed Income, Currencies and		Data, Connectivity		
	Commodities \$'000	Equities \$'000	and Indices \$'000	Corporate \$'000	Group \$'000
2023					
Operating Revenue	338,166	709,183	147,059	_	1,194,408
Earnings before interest, tax,					
depreciation and amortisation		450,091	93,782	_	687,865
Depreciation and amortisation	41,974	40,851	15,497	_	98,322
Operating profit	102,018	409,240	78,285	_	589,543
Non-operating items	_	_	_	99,836	99,836
Share of results of associated					
companies and joint ventures,					
net of tax	_	_	_	(15,557)	(15,557)
Tax	_	_	_	(103,257)	(103,257)
Net profit after tax					570,565
2022					
Operating Revenue	252,745	698,867	147,429	_	1,099,041
Earnings before interest, tax,					
depreciation and amortisation	90,815	448,109	95,182	_	634,106
Depreciation and amortisation	37,731	42,915	16,012	_	96,658
Operating profit	53,084	405,194	79,170	_	537,448
Non-operating items	_	_	_	17,674	17,674
Share of results of associated					
companies and joint ventures,					
net of tax	_	_	_	(10,534)	(10,534)
Tax	_	_	_	(92,687)	(92,687)
Net profit after tax					451,901

Fired

40 Securities Clearing Fund

The Securities Clearing Fund was established under the clearing rules of the securities clearing subsidiary, CDP. The clearing fund is to provide resources to enable CDP to discharge its obligations and the liabilities of defaulting clearing members arising from transactions in approved securities.

The Securities Clearing Fund uses a scalable structure that aligns members' contributions to their clearing risk exposure with CDP. Clearing members are required to post clearing fund contributions that is the higher of \$500,000 or the clearing member's proportionate share of the total clearing fund requirement, based on the exposure that the member brings to CDP.

Securities Clearing Fund (continued)

The Securities Clearing Fund comprised contributions from both CDP and its clearing members as follows:

(a) <u>Contribution by CDP</u>

	Gro	\mathbf{p}
	2023 \$'000	2022 \$'000
Cash at bank - contributed by CDP	40,000	60,000

Cash contributions by CDP are denominated in SGD and placed in interest bearing accounts with 4 banks (2022: 4 banks). The initial \$25,000,000 contribution by CDP into the Securities Clearing Fund is recorded in the securities clearing fund reserve.

(b) <u>Contribution by Clearing Members</u>

The cash contributions from CDP clearing members are not recorded in the statement of financial position of the Group as these contributions are held in trust by the Group.

	Group		
	2023	2022	
	\$'000	\$'000	
Contributions by CDP clearing members			
- cash at bank, held in trust	48,231	51,452	

The Securities Clearing Fund is a trust asset held subject to the trust purposes set out in CDP Clearing Rule 7.1.2. CDP is obliged to contribute at least 25% of the Securities Clearing Fund size.

Payments out of the Securities Clearing Fund shall be made in the following order:

- (1) Contributions by defaulting clearing member(s);
- (2) CDP's contribution of an amount not less than 15% of the Clearing Fund size;
- (3) Collateralised contributions by all other non-defaulting clearing members on a pro-rata basis in the proportion of each clearing member's collateralised contribution relative to the aggregate collateralised contributions of all non-defaulting clearing members;
- (4) CDP's contribution of an amount not less than the difference between 25% of the Clearing Fund size, and layer (2) above. The second contribution of the Securities Clearing Fund contributed by CDP amounted to \$20,000,000 (2022: \$30,000,000).
- (5) Contingent contributions by all non-defaulting clearing members on a pro-rata basis in the proportion of each clearing member's contingent contributions relative to the aggregate contingent contributions of all non-defaulting clearing members;

41 Singapore Exchange Derivatives Clearing Limited ("SGX-DC") Clearing Fund

The SGX-DC Clearing Fund structure specifies the apportionment and sequence of use of resources in the event of single and multiple defaults. It provides a scalable structure that aligns clearing members' contributions to their clearing risk exposure with SGX-DC.

The Group has committed cash, amounting to \$131,805,000 (2022: \$125,021,000) (Note 13) to support the SGX-DC Clearing Fund. The SGX-DC Clearing Fund is made up of the following:

	2023 \$'000	2022 \$'000
SGX-DC share capital earmarked for SGX-DC Clearing Fund	97,784	91,000
Derivatives clearing fund reserve (Note (a))	34,021	34,021
•	131,805	125,021

Except for the \$131,805,000 (2022: \$125,021,000) mentioned above, other resources available for the SGX-DC Clearing Fund are not included in the statement of financial position of the Group. These are third party obligations towards the SGX-DC Clearing Fund and where they are held by SGX-DC, these resources are held in trust (Note 42(b)).

(a) <u>Derivatives clearing fund reserve</u>

Upon the dissolution of the SGX-DT Compensation Fund on 24 November 2006, the cash proceeds of \$34,021,000 were set aside as the Group's derivatives clearing fund reserve to support the SGX-DC Clearing Fund. This reserve is not available for distribution as dividend.

(b) <u>Utilisation of SGX-DC Clearing Fund</u>

Under the SGX-DC Clearing Fund structure, the resources available would be utilised in the following priority in the event of default of a SGX-DC clearing member:

- (1) the defaulting derivatives clearing member's collateral deposited with or provided to SGX-DC;
- (2) SGX-DC's contributions of an amount not less than 15% of the SGX-DC Clearing Fund size;
- (3) clearing fund deposits of non-defaulting derivatives clearing members participating in the same contract class as the defaulted derivatives clearing member;
- (4) SGX-DC's contributions of an amount not less than the difference of 25% of the SGX-DC Clearing Fund size and SGX-DC's contribution to layer (2) above;
- (5) clearing fund deposits of other non-defaulting derivatives clearing members not participating in the same contract class as the defaulted derivatives clearing member;
- (6) further assessments on other non-defaulting derivatives clearing members; and
- (7) any other contributions to the SGX-DC Clearing Fund.

Singapore Exchange Derivatives Clearing Limited ("SGX-DC") Clearing Fund (continued)

(b) <u>Utilisation of SGX-DC Clearing Fund (continued)</u>

The rules of SGX-DC provide for SGX-DC to continually draw down resources in the above sequence in the event of multiple defaults occurring within a period of 90 days. Upon utilisation of the SGX-DC Clearing Fund, SGX-DC will be obliged to contribute at least 25% of the SGX-DC Clearing Fund size in relation to the paragraph above.

The rules of SGX-DC further provide for resources to be mobilised should the GIFT Connect counterparty, NSE IFSC Clearing Corporation Limited (NICCL), be unable to meet its obligations. The resources available ("GIFT Connect Layer") would be utilised in the following priority in the event of default of the GIFT Connect counterparty:

- (1) The defaulting GIFT Connect counterparty collateral deposited with SGX-DC;
- (2) SGX-DC's contributions of an amount not less than 15% of the GIFT Connect Layer size;
- (3) Connect Layer contribution by derivatives clearing members participating in GIFT Connect;
- (4) SGX-DC's contribution of an amount not less than the difference between 25% of the GIFT Connect Layer size, and SGX-DC's contribution to layer (2) above.

In the event that the above GIFT Connect Layer is inadequate, the SGX-DC clearing fund resources starting from layer (2) of the SGX-DC clearing fund above, will be applied.

42 Clearing fund, margin and other deposits

The Group, in its normal course of business, through subsidiaries operating as clearing houses, holds assets in trust or contingent assets such as irrevocable letters of credit, government securities or on-demand guarantees. None of these assets or contingent assets, together with the corresponding liabilities, are included in the statement of financial position of the Group.

(a) The Central Depository (Pte) Limited ("CDP")

(i) Margin and other deposits

As the clearing house for securities traded on Singapore Exchange Securities Trading Limited ("SGX-ST"), CDP becomes the novated counterparty for these trades.

The rules of CDP require its clearing members to provide collateral in the form acceptable to CDP as margin deposits to guarantee the performance of the obligations associated with securities traded on SGX-ST and cleared by CDP. The total collateral required by CDP as at 30 June 2023 were approximately \$43,142,000 (2022: \$53,925,000).

In addition, the CDP Clearing Rules provide that CDP may request its clearing members to place additional collateral with CDP in respect of its securities clearing activities from time to time.

Forms of collateral acceptable by CDP as margins include cash, government securities, selected common stocks and other instruments as approved by CDP from time to time.

As at the reporting date, clearing members had lodged the following collateral with CDP:

	2023 \$'000	2022 \$'000
Margin deposits Cash Quoted government securities, at fair value	168,082 1,980	198,180
Other collateral Irrevocable letters of credit	30,000	30,000

All cash deposits in the financial year are placed with banks. Interest earned on the cash deposits is credited to the securities clearing members, with a portion paid to CDP as administrative fee.

42 Clearing fund, margin and other deposits (continued)

(b) <u>Singapore Exchange Derivatives Clearing Limited ("SGX-DC")</u>

(i) Margin deposits

As the clearing house for futures and options traded on Singapore Exchange Derivatives Trading Limited ("SGX-DT") and Over-The-Counter ("OTC") commodities contracts, SGX-DC becomes the novated counterparty for these derivative instruments.

The rules of SGX-DC require its derivatives clearing members to provide margin deposits to guarantee the performance of the obligations associated with derivative instruments positions. Forms of collateral acceptable by SGX-DC as margins include cash, government securities, and other instruments as approved by SGX-DC from time to time.

In addition, the SGX-DC Clearing Rules provide that SGX-DC may request its clearing members to place additional collateral with SGX-DC in respect of its derivatives clearing activities from time to time.

The total margins required by SGX-DC as at 30 June 2023 were approximately \$11,355,208,000 (2022: \$12,561,221,000).

As at the reporting date, clearing members had lodged the following collateral with SGX-DC:

	2023 \$'000	2022 \$'000
Margin deposits		
Cash	11,244,785	13,860,539
Quoted government securities, at fair value	2,665,911	1,395,925

All cash deposits are placed with banks and/or in reverse repurchase agreements. Interest earned on the cash deposits is credited to the derivatives clearing members, with a portion paid to SGX-DC as administrative fee.

(ii) Performance deposits and deposits received for contract value

For commodities contracts which are physically-settled, the rules of SGX-DC and its contract specifications require its clearing members to provide collateral in the form acceptable to SGX-DC as performance deposits to secure the performance of a delivery contract. In its capacity as escrow agent to the physical delivery of the contract, SGX-DC also collects the contract value of the commodities to be delivered through the exchange.

As at the reporting date, the following were lodged with SGX-DC for performance deposits purposes:

	2023	2022
	\$'000	\$'000
Performance deposits and deposits received for		
contract value		
Cash	278	5

42 Clearing fund, margin and other deposits (continued)

- (b) <u>Singapore Exchange Derivatives Clearing Limited ("SGX-DC")</u> (continued)
- (iii) Clearing fund and other deposits

The rules of SGX-DC require its clearing members to deposit clearing fund contributions for their derivatives clearing obligations to SGX-DC.

Clearing members are required to post clearing fund deposit amount that is higher of \$1,000,000 or the clearing member's proportionate share of the total clearing fund requirement, based on the exposure that the member brings to SGX-DC, taking into account its 3-month average risk margin. Such deposits can be in cash, government securities or any forms of collateral acceptable to SGX-DC.

As at the reporting date, the following clearing fund and other deposits were lodged with SGX-DC for clearing fund purpose:

	2023 \$'000	2022 \$'000
Clearing fund and other deposits		
Cash	419,863	488,654
Quoted government securities, at fair value	25,923	12,844

(iv) Collateral for Mutual Offset Settlement Agreement

As at 30 June 2023, irrevocable letters of credit amounting to approximately \$386,687,000 (2022: \$458,767,000) were lodged by The Chicago Mercantile Exchange with SGX-DC. This is to fulfill collateral requirements under the Mutual Offset Settlement Agreement.

(v) Collateral for GIFT Connect

As at 30 June 2023, Bankers' Guarantee amounting to approximately \$67,840,000 (2022: Not applicable) was lodged by NSE IFSC Clearing Corporation Ltd (NICCL) with SGX-DC. This is to fulfill collateral requirement under the GIFT Connect operating agreement.

43 Collaterals for Securities Borrowing and Lending

CDP operates a Securities Borrowing and Lending ("SBL") programme for banks, its depositors, clearing members and depository agents. SBL involves a temporary transfer of securities from a lender to a borrower, via CDP, for a fee. The SBL programme requires the borrowers of securities to provide collateral in the form of cash and/or certain designated securities.

As at the reporting date, borrowers had lodged the following collateral with CDP for SBL purpose:

	2023 \$'000	2022 \$'000
Cash	112,469	91,964
Securities, at fair value	48,399	39,117

None of these assets or contingent assets nor the corresponding liabilities are included in the statement of financial position of the Group.

44 Securities and Derivatives Fidelity Funds

The fidelity funds are administered by Singapore Exchange Securities Trading Limited ("SGX-ST") and Singapore Exchange Derivatives Trading Limited ("SGX-DT"), as required by Section 176 of the Securities and Futures Act. The assets of the fidelity funds are kept separate from all other assets, and are held in trust for the purposes set out in the Securities and Futures Act. The balances of the fidelity funds are as follows:

	2023 \$'000	2022 \$'000
Securities Exchange Fidelity Fund	38,525	37,745
Derivatives Exchange Fidelity Fund	26,158	25,629
	64,683	63,374

The purposes of the fidelity funds pursuant to Section 186 of the Securities and Futures Act are as follows:

- (a) to compensate any person (other than an accredited investor) who has suffered a pecuniary loss from any defalcation committed:
 - (i) in the course of, or in connection with, dealing in securities, or the trading of a futures contract:
 - (ii) by a member of a securities exchange or a futures exchange or by any agent of such member; and
 - (iii) in relation to any money or other property entrusted to or received:
 - by that member or any of its agents; or
 - by that member or any of its agents as trustee or on behalf of the trustees of that money or property.
- (b) to pay the Official Assignee or a trustee in bankruptcy within the meaning of the Bankruptcy Act (Cap. 20) if the available assets of a bankrupt, who is a member of SGX-ST or SGX-DT, are insufficient to satisfy any debts arising from dealings in securities or trading in futures contracts which have been proved in the bankruptcy by creditors of the bankrupt member.
- (c) to pay a liquidator of a member of SGX-ST or SGX-DT which is being wound up if the available assets of a member are insufficient to satisfy any debts arising from dealings in securities or trading in futures contracts which have been proved in the liquidation of the member.

Any reference to dealing in securities or trading of a futures contract refers to such dealing or trading through the exchange which establishes, keeps and administers the fidelity fund or through a trading linkage of the exchange with an overseas securities exchange or an overseas futures exchange.

44 Securities and Derivatives Fidelity Funds (continued)

No further provision has been made in the financial year ended 30 June 2023 for contribution to be paid to the securities and derivatives fidelity funds as the minimum sum of \$20,000,000 (2022: \$20,000,000) for each fidelity fund as currently required under the Securities and Futures Act has been met.

The assets and liabilities of the fidelity funds are as follows:

	2023 \$'000	2022 \$'000
Assets		
Fixed deposits with banks	64,810	63,260
Bank balance	157	144
Interest receivable	7	17
	64,974	63,421
Liabilities Other payables and accruals	4	3
Taxation	286	41
Deferred tax liabilities	1	3
	291	47
Net assets	64,683	63,374

The assets and liabilities of the fidelity funds are not included in the statement of financial position of the Group as they are held in trust.

45 Contingent liabilities

At the balance sheet date, the Group and the Company's contingent liabilities are as follows:

	Group		Company	
	2023	2022	2023	2022
	\$'000	\$'000	\$'000	\$'000
Unsecured guarantees by SGX-				
DC to banks for standby				
letters of credit issued by the				
banks to Chicago Mercantile				
Exchange ("CME") for				
members' open positions on				
CME. These guarantees are				
supported by members'				
collateral balances.	356,838	389,257	_	_

46 Capital commitments

Capital commitments contracted for at year-end but not recognised in the financial statements are as follows:

	Group		Comp	any
	2023 \$'000	2022 \$'000	2023 \$'000	2022 \$'000
Property, plant and equipment	14,114	179	14,104	_
Software	2,895	5,660	616	1,052
	17,009	5,839	14,720	1,052

47 Related party transactions

In addition to the information disclosed elsewhere in the financial statements, the following transactions took place between the Group and related parties at terms agreed between the parties:

Directors' fees and key management's remuneration

Key management's remuneration included fees, salary, bonus, commission and other emoluments (including benefits-in-kind) computed based on the cost incurred by the Group and the Company, and where the Group or the Company did not incur any costs, the value of the benefit is included. The directors' fees and key management's remuneration are as follows:

	2023 \$'000	2022 \$'000
Salaries and other short-term employee benefits Employer's contribution to Central Provident	16,929	17,734
Fund	125	135
Share-based payment to key management	6,710	5,076
	23,764	22,945

During the financial year, 419,600 shares (FY2022: 321,800 shares) under SGX performance share plan and 419,600 shares (FY2022: 321,800 shares) under SGX deferred long-term incentives scheme were granted to key management of the Group. The shares were granted under the same terms and conditions as those offered to other employees of the Company.

48 Financial risk management

Financial risk management objectives and policies

The Group is exposed to market risk (including currency risk, price risk and interest rate risk), credit risk and liquidity risk arising from its business activities. The Group's overall risk management strategy seeks to minimise adverse effects from the unpredictability of financial markets on the Group's financial performance.

The Board of Directors has overall responsibility for the oversight of financial risk management for the Group. The Risk Management Committee ("RMC") assists the Board in discharging its oversight responsibility. The RMC's primary function is to review, recommend to the Board for approval, and where authority is delegated by the Board, approve:

- (1) The type and level of risks that the Group undertakes on an integrated basis to achieve its business strategy; and
- (2) Frameworks and policies for managing risks that are consistent with its risk appetite.

Management is responsible for identifying, monitoring and managing the Group's financial risk exposures.

The main financial risks that the Group is exposed to and how they are managed are set out below.

Market risk – Currency risk

The Group manages its main currency exposure as follows:

(a) Revenue from clearing of derivative products
Interest receivables from placements of margin deposits

The Group's revenue from the clearing of derivative products is mainly in USD. Interest receivables from placements of margin deposits with banks are mainly denominated in USD. For these receivables denominated in USD, the Group manages the currency exposure through currency forward contracts which are designated as cash flow hedges. Upon settlement of the currency forward contracts and payment obligations denominated in foreign currency, any excess foreign currencies are converted back to the functional currency of the respective entity in a timely manner to minimise currency exposure. As at the reporting date, there is no significant currency risk exposure arising from these receivables.

(b) Net assets in foreign operations

The Group is exposed to currency risk on the net assets in foreign operations mainly in GBP, EUR and USD.

For the Group's net assets in foreign operations denominated in GBP, the management monitors the Group's currency exposure by tracking the GBP currency movement on a regular basis. The Group does not hedge the currency risk of the net assets in foreign operations.

<u>Market risk – Currency risk</u> (continued)

(b) Net assets in foreign operations (continued)

The Group's net investment in foreign operations denominated in EUR is held under a wholly-owned subsidiary that has a EUR functional currency. Currency exposure arising from the investment is hedged by EUR-denominated convertible bonds issued by the subsidiary. This provides an economic hedge without derivatives being entered.

Part of the currency exposure to the Group's net assets in foreign operations denominated in USD is hedged through borrowings denominated in USD using net investment hedge. To assess hedge effectiveness, the Group determines the economic relationship between the hedging instrument and the hedged item by comparing changes in the carrying amount of the debt that is attributable to a change in the spot rate with changes in the investment in the foreign operation due to movements in the spot rate.

A 5% strengthening (weakening) of the USD and GBP against the SGD at the reporting date would affect other comprehensive income by the amounts shown below. This analysis assumes that all other variables remain constant.

	2023 Impact to other comprehensive income \$'000	2022 Impact to other comprehensive income \$'000
Group - USD (5% strengthening)	21,887	19,343
- GBP (5% strengthening)	5,840	6,038
USD (5% weakening)GBP (5% weakening)	(21,887) (5,840)	(19,343) (6,038)

<u>Market risk – Currency risk</u> (continued)

(b) Net assets in foreign operations (continued)

Net investment hedge

The amounts relating to items designated as hedging instruments were as follows:

	Carrying amount – liabilities \$'000	Line item in the statement of financial position where the hedging instrument is included \$`000	Change in value used for calculating hedge ineffectiveness \$'000	Recognised in foreign currency translation reserve \$'000
2023	\$ 000	\$ 000	\$ 000	\$ 000
Medium term notes (USD)	22,536	Loans and borrowings	2,174	2,174
Medium term notes (CSD)	22,330	bollowings	2,174	2,174
2022				
		Loans and		
Foreign exchange-denominated loan (USD)	41,858	borrowings	(782)	(782)
		Loans and		
Medium term notes (USD)	54,005	borrowings	(5,521)	(5,521)
_	95,863		(6,303)	(6,303)

The amounts relating to items designated as hedged items were as follows:

	Change in value used for calculating hedge ineffectiveness \$'000	Recognised in foreign currency translation reserve \$'000
2023 USD net investment	(6,431)	(6,431)
2022 USD net investment	8,315	8,315

Market risk - Currency risk (continued)

(c) Investments in financial assets, at FVOCI

Investment in financial assets, at FVOCI classified as current assets relate to the Group's and the Company's investments during the year in equity securities and bonds denominated in SGD and USD.

Investment in financial assets, at FVOCI classified as non-current assets relate to Group's investments on a long term basis. The Group does not hedge the currency exposure of these investments. The Group has investments in unquoted equity securities denominated in USD. Management monitors the currency exposure by tracking the currency movement on a regular basis.

A 5% strengthening (weakening) of the USD against the SGD at the reporting date would affect other comprehensive income by the amounts shown below. This analysis assumes that all other variables remain constant.

	2023 Impact to other comprehensive income \$'000	2022 Impact to other comprehensive income \$'000
Group		
- 5% strengthening	6,520	11,102
- 5% weakening	(6,520)	(11,102)

(d) Cash and cash equivalents

As at the reporting date, the cash balances of the Group and the Company are mainly denominated in SGD, USD, EUR and GBP. USD, EUR and GBP cash balances placed in banks to meet the short-term payment obligations were not hedged.

<u>Market risk – Currency risk</u> (continued)

The Group and the Company's currency exposures are as follows:

2023	SGD ^(a) \$'000	USD \$'000	GBP \$'000	Group EUR \$'000	JPY \$'000	Others \$'000	Total \$'000
Financial assets							
Cash and cash equivalents	839,781	123,244	27,321	38,512	861	3,464	1,033,183
Trade and other receivables							
- Daily settlement of accounts							
for due contracts and rights	293,605	25,122	90	757	_	65	319,639
 Receivables under NEMS 	371,410	_	_	_	_	_	371,410
- Others	212,355	156,343	2,499	5,627	2,137	4,938	383,899
Financial assets, at FVOCI	33,917	162,919	_	_	_	_	196,836
Financial assets, at FVPL	_	353,866	_	_	_	_	353,866
Financial liabilities Trade and other payables - Daily settlement of accounts for due contracts and rights - Payables under NEMS - Others Loans and borrowings Lease liabilities	(293,605) (455,484) (260,898) – (30,207)	(25,122) - (74,878) (340,040) (4,500)	(90) - (14,568) - -	(757) - (10,456) (351,883)	- - (576) -	(65) - (72) - (591)	(319,639) (455,484) (361,448) (691,923) (35,298)
Lease habilities	(30,207)	(4,500)				(3)1)	(33,270)
Net financial assets/(liabilities)	710,874	376,954	15,252	(318,200)	2,422	7,739	795,041
Net non-financial assets of foreign subsidiaries	-	13,951	4,386	11,825	-	-	30,162
Currency exposure	710,874	390,905	19,638	(306,375)	2,422	7,739	825,203
Currency forward contracts		(166,615)	=	=	(219)	(2,190)	(169,024)

⁽a) The SGD balances have been included for completeness.

<u>Market risk – Currency risk</u> (continued)

2022	SGD ^(a) \$'000	USD \$'000	GBP \$'000	Group EUR \$'000	JPY \$'000	Others \$'000	Total \$'000
E'							
Financial assets Cash and cash equivalents	812,039	110,086	37,757	32,451	490	4,924	997,747
Trade and other receivables	012,037	110,000	31,131	32,431	470	4,724	771,141
 Daily settlement of accounts 							
for due contracts and rights	532,040	39,810	924	1,090	_	3	573,867
 Receivables under NEMS 	240,161	_	_	_	_	_	240,161
- Others	133,132	65,590	4,734	9,935	278	4,170	217,839
- Financial assets, at FVOCI	62,713	270,506	_	_	_	_	333,219
- Financial asset, at FVPL	=	293,545	_	_	_	_	293,545
Loan receivable	_	9,036	_	_	_	_	9,036
Financial liabilities Trade and other payables - Daily settlement of accounts							
for due contracts and rights	(532,040)	(39,810)	(924)	(1,090)	_	(3)	(573,867)
- Payables under NEMS	(300,734)			_	_	_	(300,734)
- Others	(239,812)	(120,840)	(13,945)	(11,543)	(596)	(1,017)	(387,753)
Loans and borrowings	_	(390,072)	_	(345,721)	-	_	(735,793)
Lease liabilities	(52,288)	_	=	_	=	(790)	(53,078)
Net financial assets/(liabilities)	655,211	237,851	28,546	(314,878)	172	7,287	614,189
Net non-financial assets of							
foreign subsidiaries	-	15,998	3,830	11,138	_	_	30,966
Currency exposure	655,211	253,849	32,376	(303,740)	172	7,287	645,155
Currency forward contracts		(75,693)			(108)	(378)	(76,179)

 $^{^{\}rm (a)}$ $\,$ The SGD balances have been included for completeness.

2023	SGD ^(a) \$'000	USD \$'000	GBP \$'000	Company EUR \$'000	JPY \$'000	Others \$'000	Total \$'000
Financial assets							
Cash and cash equivalents	89,071	12,461	_	27,395	7	1,164	130,098
Trade and other receivables	157,019	484	106	16	_	66	157,691
Financial liabilities							
Trade and other payables	(232,561)	(4,662)	(83)	(93)	(17)	(256)	(237,672)
Loans and borrowings	_	(340,040)	_	(1,093)	_	_	(341,133)
Lease liabilities	(29,548)	=	_	=	_	(364)	(29,912)
Net financial assets/(liabilities)	(16,019)	(331,757)	23	26,225	(10)	610	(320,928)
Currency exposure	(16,019)	(331,757)	23	26,225	(10)	610	(320,928)

⁽a) The SGD balances have been included for completeness.

<u>Market risk – Currency risk</u> (continued)

2022	SGD (a) \$'000	USD \$'000	GBP \$'000	Company EUR \$'000	JPY \$'000	Others \$'000	Total \$'000
Financial assets Cash and cash equivalents Trade and other receivables	72,645 135,643	11,439 834	1	3	4	1,428 63	85,520 136,540
Loan receivable	-	9,036	_	_	_	-	9,036
Financial liabilities							
Trade and other payables	(208,768)	(3,524)	(119)	(91)	(11)	(324)	(212,837)
Loans and borrowings	_	(390,072)	_	(2,698)	_	_	(392,770)
Lease liabilities	(49,655)	_	(36)	_	-	(47)	(49,738)
Net financial assets/(liabilities)	(50,135)	(372,287)	(154)	(2,786)	(7)	1,120	(424,249)
Currency exposure	(50,135)	(372,287)	(154)	(2,786)	(7)	1,120	(424,249)

⁽a) The SGD balances have been included for completeness.

A 5% strengthening (weakening) of the USD against the SGD at the reporting date would affect profit after tax by the amounts shown below. This analysis assumes that all other variables remain constant.

	2023 Impact to profit after tax \$'000	2022 Impact to profit after tax \$'000
Group (a) - 5% strengthening - 5% weakening	3,069 (3,069)	(4,618) 4,618
Company - 5% strengthening - 5% weakening	(16,588) 16,588	(18,614) 18,614

⁽a) Excluding Financial assets, at FVOCI

Currency risk sensitivity analysis is not provided for the remaining currencies as the Group and the Company do not have significant foreign currency exposures to these currencies.

Market risk - Price risk

The Group and the Company are exposed to price risk arising from investments in financial assets, at FVOCI and FVPL. To manage the price risk arising from these investments, the Group and the Company diversify their multi-asset portfolio comprising of equities and bonds across developed markets and sectors, in accordance with limits set in the investment mandate. During the financial year ended 30 June 2023, the Group made further investments in equities and bonds as part of its review during the financial year. For financial assets, at FVOCI and FVPL classified as non-current assets, these investments are held as strategic investments. Performance of these investments are regularly monitored by management.

A change of 5% (2022: 5%) in prices for investments at the reporting date would affect net profit after tax and other comprehensive income by the amounts shown below. This analysis assumes that all other variables remain constant.

	20	23	2022		
		Impact to other		Impact to other	
	Impact to profit after tax \$'000	comprehensive income \$'000	Impact to profit after tax \$'000	comprehensive income \$'000	
Group					
- Price increase	17,693	8,219	14,677	14,238	
- Price decrease	(17,693)	(8,219)	(14,677)	(14,238)	

Market risk - Interest rate risk

Cash flow interest rate risk is the risk that the future cash flows of a financial instrument will fluctuate because of changes in market interest rates. Fair value interest rate risk is the risk that the fair value of a financial instrument will fluctuate due to changes in market interest rates.

The Group and the Company's fixed deposit placements are mainly short-term in nature and placed with banks that offer the most competitive interest rates. The Group and the Company manages its interest rate risks arising from investments in bonds by placing such balances on varying maturities and interest rate terms. The Group and the Company's borrowings are fixed rate instruments held at amortised cost. The borrowings are not subjected to interest rate risk due to the variability of market interest rates.

The tables set out in the following pages illustrate the Group and the Company's financial assets and liabilities at carrying amounts, categorised by the earlier of contractual re-pricing or maturity dates.

<u>Market risk – Interest rate risk</u> (continued)

	Variable rates		Fixed rates			
Group	Less than 6 months \$'000	Less than 6 months \$'000	6 to 12 months \$'000	Over 1 year \$'000	Non-interest bearing \$'000	Total \$'000
2020						
2023 Financial assets						
Cash and cash equivalents	336,360	456,155	157,048		83,620	1,033,183
Trade and other receivables	330,300	5,294	137,046	_	1,069,654	1,033,183
Financial assets, at FVOCI		14,293	_	19,624	162,919	196,836
Financial assets, at FVPL		14,293	_	19,024	353,866	353,866
					,	,
Financial liabilities						
Trade and other payables	_	_	_	_	(1,136,571)	(1,136,571)
Loans and borrowings	_	_	(351,883)	(340,040)	_	(691,923)
Lease liabilities	_	(11,542)	(8,928)	(14,828)	_	(35,298)
Net financial assets/(liabilities)	336,360	464,200	(203,763)	(335,244)	533,488	795,041
2022						
Financial assets						
Cash and cash equivalents	266,335	590,600	32,502	_	108,310	997,747
Trade and other receivables	_	570,000	<i>52,502</i> _	_	1,031,867	1,031,867
Financial assets, at FVOCI	_	42,925	_	19,788	270,506	333,219
Financial asset, at FVPL	_	-	_	-	293,545	293,545
Loan receivable	9,036	_	_	_	_	9,036
T						
Financial liabilities					(1.262.254)	(1.262.254)
Trade and other payables	_	- (41.959)	_	- (602.025)	(1,262,354)	(1,262,354)
Loans and borrowings	_	(41,858)	(11.255)	(693,935)	_	(735,793)
Lease liabilities	_	(10,785)	(11,355)	(30,938)	_	(53,078)
Net financial assets/(liabilities)	275,371	580,882	21,147	(705,085)	441,874	614,189

<u>Market risk – Interest rate risk</u> (continued)

	Variable rates		Fixed rates			
Company	Less than 6 months \$'000	Less than 6 months \$'000	6 to 12 months \$'000	Over 1 year \$'000	Non-interest bearing \$'000	Total \$'000
202 3						
Financial assets						
Cash and cash equivalents	61,795	40,500	_	_	27,803	130,098
Trade and other receivables	_	_	_	_	157,691	157,691
Financial liabilities						
Trade and other payables	_	_	_	_	(237,672)	(237,672)
Loans and borrowings	_	_	(1,093)	(340,040)	(237,072)	(341,133)
Lease liabilities	_	(10,332)	(7,958)	(11,622)	_	(29,912)
Doubt Intermed		(10,002)	(1,500)	(11,022)		(=>,> 1=)
Net financial assets/(liabilities)	61,795	30,168	(9,051)	(351,662)	(52,178)	(320,928)
2022						
Financial assets						
Cash and cash equivalents	39,524	45,600	_	_	396	85,520
Trade and other receivables	57,52 -	-5,000	_	_	136,540	136,540
Loan receivable	_	_	_	9,036	-	9,036
				,,,,,		2,000
Financial liabilities						
Trade and other payables	_	_	_	_	(212,837)	(212,837)
Loans and borrowings	_	(41,858)	_	(350,912)	_	(392,770)
Lease liabilities	_	(10,153)	(10,048)	(29,537)	_	(49,738)
Net financial assets/(liabilities)	39,524	(6,411)	(10,048)	(371,413)	(75,901)	(424,249)
` /		\ / /	\ / /	` / -/	\ / /	\ / - /

Market risk – Interest rate risk (continued)

A change by 0.5% (2022: 0.5%) in interest rate for the Group's investment in bonds at the reporting date would affect other comprehensive income by the amounts shown below. This analysis assumes that all other variables remain constant.

	2023 Impact to other comprehensive income \$'000	2022 Impact to other comprehensive income \$'000
Group		
- Interest rate increase	(169)	(312)
- Interest rate decrease	170	315

Credit risk

Credit risk refers to the risk that counterparty will default on its contractual obligations resulting in financial loss to the Group and the Company. The major classes of financial assets of the Group with credit exposures are: receivables from clearing and settlement, receivables under NEMS, trade and interest receivables, cash deposits and investments in debt instruments.

The Group manages its credit exposures as follows:

(a) Clearing and settlement

In the normal course of business as clearing houses, SGX-DC and CDP act as central counterparties ("CCP") for every transaction received by or matched through the Group's facilities. As CCP, each clearing house substitutes itself as the buyer to the selling clearing member, and seller to the buying clearing member, and assumes all rights and obligations to the counterparty. As a result, each clearing house faces considerable credit risk exposure should any of its clearing members be unable to meet its settlement obligations to the clearing house, resulting in a default. The Group has in place a sound and transparent risk management and regulatory framework governing the operations of securities and derivatives markets. On an on-going basis, the Group mitigates its counterparty risk through active monitoring and management of its exposures to clearing members by having in place a system of financial safeguards.

Credit risk management practices

The Group mitigates its exposures to risk by admitting clearing members which meet prescribed capital and financial requirements and have risk management systems to monitor their exposures. On an on-going basis, a clearing member must continue to comply with the financial requirements, and also set aside capital commensurate with its risk exposures. In addition, the clearing member must ensure that it has the necessary systems and procedures to preserve sound liquidity and financial position at all times.

<u>Credit risk</u> (continued)

(a) Clearing and settlement (continued)

<u>Credit risk management practices</u> (continued)

Both SGX-DC and CDP have well-established risk management systems to monitor and measure the risk exposures of its members. In addition, SGX-DC and CDP require all cleared positions and contracts to be sufficiently collateralised at all times to protect SGX-DC and CDP against potential losses. SGX-DC also revalues and settles the daily mark-to-market variations with clearing members to prevent losses from accumulating. For CDP, it also requires clearing members to monitor compliance with risk management measures such as monitoring for large exposures and risk concentration.

Refer to Note 42 on margin and other deposits held in trust by SGX-DC and CDP.

Financial safeguards

A clearing fund has been established for each of the securities and derivatives markets to be used in support of the clearing houses' roles as CCP. The Group and the relevant clearing members are required to contribute to the respective clearing funds.

Refer to Note 40 and 41 on Securities Clearing Fund and Singapore Exchange Derivatives Clearing Limited Clearing Fund.

Trade receivables arising from settlement of securities trades

Settlement for all securities transactions of securities clearing members are effected through the Group's subsidiary, CDP, and through MAS MEPS+ for SGD and designated settlement banks.

The "Receivables from clearing members and settlement banks" included in trade receivables represent the aggregate of net settlement obligations of each of the clearing members and settlement banks to CDP for the last two trading days of the financial years ended 30 June 2023 and 30 June 2022. As at 30 June 2023, there were 26 (2022: 26) securities clearing members and 8 (2022: 8) designated settlement banks. The Group may have concentration risk exposure to these securities clearing members with regards to their net settlement obligations to CDP. The settlement exposure of CDP to each securities clearing member fluctuates daily according to the net position (net buy or net sell) of each securities clearing member and the extent to which these settlement obligations are effected through MAS MEPS+ and the settlement banks.

(b) Receivables under NEMS

In relation to NEMS receivables in Note 15, EMC is required to ensure that market participants maintain certain levels of prudential security in discharging its obligations under the NEMS Market Rules ("Market Rules"). EMC is entitled to recover any default receivables from all market participants under the Market Rules and credit risk exposure to NEMS receivables is minimised.

<u>Credit risk</u> (continued)

(b) Receivables under NEMS (continued)

Under the Market Rules, each market participant has to provide credit support which is not less than 38 times of individual estimated average daily exposure. The Market Rules specify the type of credit support to be provided and assigned to EMC. These include bankers' guarantees or irrevocable commercial letter of credit from reputable financial institutions, cash deposits and Singapore Government Treasury bills. The credit support received as at 30 June 2023 were in the form of bankers' guarantees and cash deposits and have an aggregate value of \$1,392,228,000 (2022: \$766,064,000). There is no significant concentration of credit risk for receivables under NEMS.

(c) Trade receivables (excluding balances arising from clearing and settlement of securities trades and NEMS)

Trade receivables (excluding balances arising from clearing and settlement of securities trades and NEMS) of the Group and the Company comprise receivables from trading and clearing members, listed companies and other entities.

(d) Cash deposits, interest receivables and escrow receivables

Cash balances of the Group and the Company are mainly placed in fixed deposits with financial institutions of high credit quality. The Board has approved policies that limit the maximum credit exposure to each financial institution. Exposure and compliance with counterparty limits set by the RMC are monitored by the relevant business units and reported by the Risk Management unit to the RMC.

(e) Financial assets, at FVOCI

The bond instruments invested by the Group and the Company are restricted to fixed income securities with minimum credit rating of BBB+ or Baa1 by international credit rating agencies or by internal equivalent rating of investment manager where applicable. These are considered "low credit risk" as they are of investment grade credit rating with at least one major rating agency.

(f) Credit loss allowance

For receivables from clearing and settlement, the expected credit loss is minimal as these receivables were due from clearing members and settlement banks. The admission of these clearing members and settlement banks are subject to the Group's admission criteria, compliance monitoring and risk management measures. These receivables had no recent history of default and there were no unfavourable current conditions at the reporting date.

For receivables under NEMS, there is no expected credit loss. Under the NEMS Market Rules, EMC is entitled to recover any default receivables from all market participants.

<u>Credit risk</u> (continued)

(f) Credit loss allowance (continued)

For trade receivables excluding balances arising from clearing and settlement of securities trades and NEMS, the Group applied the simplified approach permitted by SFRS(I) 9 which requires expected lifetime losses to be recognised from initial recognition of the receivables.

Expected loss rates are based on the payment profiles of customers and the corresponding historical credit losses experienced. The historical loss rates are adjusted to reflect current and forward-looking information on macroeconomics factors affecting the ability of the customers to settle the receivables.

On this basis, the loss allowance for trade receivables as at 30 June 2023 and 30 June 2022 was determined as not material. The gross carrying amount of trade receivables subject to expected credit loss allowance that are more than 360 days past due as at 30 June 2023 and 30 June 2022 is \$3,077,000 and \$5,175,000 respectively.

Trade receivables excluding balances arising from clearing and settlement of securities trades and NEMS are considered in default if the counterparty fails to make contractual payments within 360 days when they fall due, and are written off when there is no reasonable expectation of recovery. Where receivables are written off, the Group continues to engage in enforcement activity to attempt to recover the receivables due. Where recoveries are made, these are recognised in profit or loss.

Financial assets, at FVOCI comprised bond instruments invested by the Group and the Company restricted to fixed income securities at investment grade with minimum credit rating of BBB+ or Baa1 by international credit rating agencies or by internal equivalent rating of investment manager where applicable. Loss allowance is recognised on these assets measured at the 12-month expected credit losses. These financial assets had no recent history of default and none had been below the minimum credit rating of BBB+ or Baa1.

Cash deposits, staff advances and other receivables are subject to immaterial credit loss.

Credit risk (continued)

(f) Credit loss allowance (continued)

The movements in credit loss allowance are as follows:

	Trade receivables Group		
	2023 \$'000	2022 \$'000	
Balance at beginning of financial year	5,175	1,930	
Allowance made Allowance utilised	1,979 (547)	3,578 (73)	
Allowance written back	(424)	(260)	
Balance at end of financial year	6,183	5,175	

Exposures from receivables from clearing and settlement and receivables under NEMS are managed by risk management systems and collateralised as described above.

The maximum exposure to credit risk to trade receivables, cash deposits and investment in debt instruments is the carrying amount presented on the statement of financial position of the Group and the Company. The Group and the Company do not hold any collateral against these financial instruments. In addition, clearing houses, SGX-DC and CDP, also have general lien on all monies and other properties deposited by clearing members. The clearing house may combine any account of the clearing member with its liabilities to the clearing house. Such funds may be applied towards satisfaction of liabilities of the clearing member to the clearing house.

Liquidity risk

Liquidity risk is the risk that the Group will encounter difficulty in meeting the obligations associated with its financial liabilities that are settled by delivering cash or another financial asset.

(a) Liabilities related risk

The Group and the Company has minimal liquidity risk as it maintains sufficient cash for daily operations through prudent liquidity risk management.

Liquidity risk (continued)

(a) Liabilities related risk (continued)

The financial liabilities of the Group and the Company are analysed into the relevant maturity buckets based on the remaining period from the balance sheet date to the contractual maturity dates. The amounts disclosed in the table below are contractual undiscounted cash flows.

	Up to 3 months	> 3 months to 1 year	Above 1 year	Total
Group	\$'000	\$'000	\$'000	\$'000
2023				
Financial liabilities				
Trade and other payables (a)	1,128,307	2,970	_	1,131,277
Lease liabilities	5,968	15,242	15,523	36,733
Loans and borrowings		351,883	340,040	691,923
2022				
Financial liabilities				
Trade and other payables (b)	1,243,708	18,646	_	1,262,354
Lease liabilities	5,919	17,364	31,847	55,130
Loans and borrowings	22,716	23,430	712,190	758,336

(a) Included the following:

- \$319,639,000 payables to clearing members and settlement banks for daily settlement of accounts for due contracts and rights with a corresponding amount in trade receivables; and
- \$455,484,000 payables under NEMS with corresponding amounts in cash and cash equivalents and trade receivables.

Excluded the following:

- \$5,294,000 (2022: \$Nil) escrow payables as the escrow funds are placed by the Group in term deposits where the funds cannot be withdrawn at any time from the banks without penalty.

(b) Included the following:

- \$573,867,000 payables to clearing members and settlement banks for daily settlement of accounts for due contracts and rights with a corresponding amount in trade receivables; and
- \$300,734,000 payables under NEMS with corresponding amounts in cash and cash equivalents and trade receivables.

<u>Liquidity risk</u> (continued)

(a) Liabilities related risk (continued)

	Up to	> 3 months	Above	
Company	3 months \$'000	to 1 year \$'000	1 year \$'000	Total \$'000
Company	Ψ 000	Ψ 000	\$ 000	\$ 000
2023				
Financial liabilities				
Trade and other payables	173,364	64,308	_	237,672
Lease liabilities	5,245	13,614	11,976	30,835
Loans and borrowings		1,093	340,040	341,133
2022				
Financial liabilities				
Trade and other payables	149,363	_	63,474	212,837
Lease liabilities	5,482	15,818	30,432	51,732
Loans and borrowings	22,716	23,430	363,115	409,261

As at 30 June 2023, the gross notional value of outstanding currency forward contracts held by the Group was \$169,024,000 (2022: \$76,179,000). The Group's outstanding currency forward contracts that would be settled on a gross basis are analysed into relevant maturity buckets based on the remaining contractual maturity dates as follows:

Group	Up to 3 months \$'000	> 3 months to 1 year \$'000	Total \$'000
2023			
Currency forward contracts - gross outflows	73,629	93,985	167,614
- gross inflows	73,978	92,045	166,023
2022 Currency forward contracts			
- gross outflows	35,264	40,790	76,054
- gross inflows	33,940	40,041	73,981

Liquidity risk (continued)

(b) Contingent liabilities related risk

At the balance sheet date, the following guarantees may impact the liquidity positions in the earliest period in which the guarantees are called upon:

	Group		Company	
	2023	2022	2023	2022
	\$'000	\$'000	\$'000	\$'000
Unsecured guarantees by SGX-				
DC to banks for standby				
letters of credit issued by the				
banks to Chicago Mercantile				
Exchange (Note 45)	356,838	389,257	_	_

The settlement obligation of the above contingent liabilities is not determinable as the obligation arises from the occurrence of future events that are not within the control of the Group and the Company.

(c) Clearing and settlement-related risk

The clearing houses of the Group, CDP and SGX-DC, act as the novated counterparty for transactions of approved securities and derivatives. The Group is exposed to liquidity risk should any clearing member or settlement bank default. The Group has put in place sufficient committed bank credit facilities of \$699,879,000 (2022: \$784,375,000), comprising committed unsecured credit lines for prudent risk management and to maintain adequate liquid resources.

Fair value measurements

The following table presents assets and liabilities measured at fair value and classified by level of the following fair value measurement hierarchy:

- (a) quoted prices (unadjusted) in active markets for identical assets or liabilities (Level 1);
- (b) inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly (i.e. as prices) or indirectly (i.e. derived from prices) (Level 2); and
- (c) inputs for the asset or liability that are not based on observable market data (unobservable inputs) (Level 3).

Fair value measurements (continued)

	Level 1 \$'000	Level 2 \$'000	Level 3 \$'000	Total \$'000
Group				
2023				
Assets				
Derivative financial instruments	_	1,008	_	1,008
Financial assets, at FVOCI	33,917	8,082	154,837	196,836
Financial assets, at FVPL	22,169	_	331,697	353,866
Liabilities				
Derivative financial instruments	_	2,599	_	2,599
Financial liability	_	_	14,774	14,774
2022 Assets Derivative financial instruments	_	17	_	17
Financial assets, at FVOCI	94,155	8,282	230,782	333,219
Financial asset, at FVPL	_	_	293,545	293,545
Liabilities				
Derivative financial instruments	_	2,090	_	2,090
Financial liability	_	_	37,583	37,583
Contingent consideration			36,284	36,284

No transfers were made between Level 1, 2 and 3 for the Group and the Company during the financial year ended 30 June 2023.

As at 30 June 2022, the Group's financial asset at FVOCI with carrying amount of \$230,782,000 was transferred from Level 2 to Level 3 due to unavailability of observable market pricing. To determine the fair value of this financial asset at FVOCI, management used a market comparison valuation technique. No other transfers were made during the financial year ended 30 June 2022.

Fair value measurements (continued)

The fair value of financial instruments traded in active markets is based on quoted market prices at the balance sheet date. The quoted market price used for financial assets held by the Group and the Company is the current bid price. These instruments are included in Level 1.

The fair value of financial instruments that are not traded in an active market is determined by using valuation techniques. The Group and the Company use a variety of methods and makes assumptions that are based on market conditions existing at each balance sheet date. Quoted market prices or dealer quotes for similar instruments are used to estimate fair value for debt instruments. The fair value of currency forward contracts is determined using quoted forward currency rates at the balance sheet date. Unquoted equity securities classified as financial assets, at FVOCI, are valued using latest transacted price. These instruments are classified as Level 2 and comprise debt instruments, derivatives financial instruments and unquoted equity securities.

Where a valuation technique for these instruments is based on significant unobservable inputs, such instruments are classified as Level 3. The following table presents the valuation techniques and key inputs that were used to determine the fair value of financial instruments categorised under Level 3.

Description	Fair value \$'000	Valuation techniques	Unobservable inputs	Range of unobservable inputs
Forward liability to acquire non- controlling interests	14,774 (2022: 37,583)	Multiples of forecast on Earnings before interest, tax and amortisation ("EBITA")	Forecast of EBITA	Not applicable
Contingent consideration	- (2022: 36,284)	Probability of forecast revenue	Forecast of revenue	Not applicable
Financial asset, at FVPL	331,697 (2022: 293,545)	Net Asset Value	Net Asset Value	Not applicable
Financial assets, at FVOCI (unquoted equity securities)	154,837 (2022: 230,782)	Implied market multiple of public comparables on revenue forecast	Forecast of revenue	Not applicable

Fair value measurements (continued)

For financial assets, at FVOCI and at FVPL, increases (decreases) in the above unobservable inputs, in isolation, would result in a higher (lower) fair value measurement. In respect of the other financial instruments, management considers that any reasonably possible changes to the unobservable inputs will not result in a significant financial impact.

The following table presents the reconciliation of financial instruments measured at fair value based on significant unobservable inputs (Level 3).

Group	Financial liability \$'000	Contingent consideration \$'000	Financial asset, at FVPL \$'000	Financial assets, at FVOCI \$'000
At 1 July 2022	37,583	36,284	293,545	230,782
Additions	_	_	4,729	_
Disposals	_	(20,588)	_	_
Fair value (losses)/gains				
recognised in profit or loss	(23,306)	(14,880)	40,021	_
Fair value losses recognised in other comprehensive income Effects of changes in foreign	_	-	_	(69,555)
exchange rates	497	(816)	(6,598)	(6,390)
As at 30 June 2023	14,774	_	331,697	154,837
At 1 July 2021	41,390	19,358	_	
Additions	-	35,467	288,579	_
Disposals	_	(14,811)		_
Transfer in from other levels	_	_	_	230,782
Fair value losses recognised in profit or loss	_	(4,943)	_	_
Effects of changes in foreign				
exchange rates	(3,807)	1,213	4,966	
As at 30 June 2022	37,583	36,284	293,545	230,782

The fair values of current financial assets and liabilities carried at amortised cost approximate their carrying amounts.

Offsetting financial assets and financial liabilities

The Group reports financial assets and financial liabilities on a net basis on the statement of financial position where there is a legally enforceable right to offset the recognised amounts and there is an intention to settle on a net basis or to realise the asset and settle the liabilities simultaneously.

The following table shows the effect of netting arrangements on financial assets and liabilities that are reported net on the statement of financial position.

(a) Financial assets subject to offsetting arrangements

2023	Gross amounts of recognised financial assets \$'000	Less: Gross amounts of recognised financial liabilities set off in the statement of financial position \$'000	Net amounts of financial assets presented in the statement of financial position (1) \$'000
Receivables from clearing members and settlement banks - Daily settlement of accounts for due contracts and rights	2,853,824	(2,534,185)	319,639
2022			
Receivables from clearing members and			
settlement banks - Daily settlement of			
accounts for due contracts and rights	2,391,134	(1,817,267)	573,867

Offsetting financial assets and financial liabilities (continued)

(b) Financial liabilities subject to offsetting arrangements

	Gross amounts of recognised financial liabilities \$'000	Less: Gross amounts of recognised financial assets set off in the statement of financial position \$'000	Net amounts of financial liabilities presented in the statement of financial position (1) \$'000
2023Payables to clearing members and settlement banks - Daily settlement of accounts for due contracts and rights	2,853,824	(2,534,185)	319,639
2022Payables to clearing members and settlement banks - Daily settlement of accounts for due contracts and rights	2,391,134	(1,817,267)	573,867

The collateral deposited by clearing members and settlement banks cannot be attributed directly to the individual transactions. For information on the collaterals, please refer to Note 42(a).

49 Capital requirement and management

The Group's capital management objectives are to optimise returns to shareholders whilst supporting the growth requirements of the business and fulfilling its obligations to the relevant regulatory authorities and other stakeholders.

Given the dynamic nature of the Group's business and the framework, the Group regularly reviews and monitors its capital and cash positions to ensure that the business activities and growth are prudently funded. In addition, the Group will seek opportunities to optimise shareholders' returns by creating a more efficient capital structure to reduce the overall cost of capital. SGX aims to pay a sustainable and growing dividend over time, consistent with the Company's long-term growth prospects.

The six MAS regulated subsidiaries within the Group, are Singapore Exchange Securities Trading Limited, The Central Depository (Pte) Limited., Singapore Exchange Derivatives Trading Limited, Singapore Exchange Derivatives Clearing Limited, SGX Bond Trading Pte. Ltd., and SGX FX Markets Pte. Ltd.. These subsidiaries are required to comply with Regulatory Capital Framework ("Framework") issued by the Monetary Authority of Singapore to meet prudential requirements that commensurate with the operational risk, investment risk and the counterparty default risk arising from its central counterparty clearing and settlement activities. These subsidiaries are in compliance with the Framework.

SGX India Connect IFSC Private Limited also complies with the International Financial Services Centres Authority (Capital Market Intermediaries) Regulations, and is required to maintain minimum net worth requirements at all times for its activities in India.

New accounting standards and SFRS(I) interpretations

A number of new standards and amendments to standards are effective for annual periods beginning after 1 July 2022 and earlier application is permitted; however, the Group has not early adopted the new or amended standards in preparing these financial statements.

The following amendments to SFRS(I)s are not expected to have a significant impact on the Group's consolidated financial statements and the Company's statement of financial position.

- Amendments to SFRS(I) 1-1 Conceptual Classification of Liabilities as Current or Non-Current
- SFRS(I) 17 Insurance Contracts and amendments to SFRS(I) 17 Insurance Contracts
- Amendments to SFRS(I) 1-1 and SFRS(I) Practice Statement 2 Disclosure of Accounting Policies
- Amendments to SFRS(I) 1-8 Definition of Accounting Estimates
- Amendments to SFRS(I) 1-12 Deferred Tax related to Assets and Liabilities arising from a Single Transaction