EQUITY RESEARCH - COMPANY REPORT

BANGKOK BANK

THAILAND / BANKING

BBL TB

TARGET PRICE CLOSE THB138.50 **UP/DOWNSIDE** +37.9% THB191.00 PRIOR TP **CHANGE IN TP** UNCHANGED

TP vs CONSENSUS

FSSIA ESG rating

+7.5%

การเสื่อมของคุณภาพสินทรัพย์อยู่ในระดับที่จัดการได้

- เราคาดว่ากำไรสุทธิ 1Q24 จะฟื้นตัวจากธุรกิจหลักที่เติบโตดี แม้ว่าผลขาดทุนทางเครดิตที่คาดว่าจะ เกิดขึ้น (ECL) และต้นทุนความเสี่ยงในการปล่อยสินเชื่อ (Credit costs) จะปรับขึ้น
- เรามองว่าคุณภาพสินทรัพย์อยู่ในระดับที่จัดการได้ส่วนมากจากสัดส่วนสำรองต่อหนี้ด้อยคุณภาพ (Coverage ratio) ที่อยู่ในระดับสูงซึ่งจะช่วยรับมือกับการก่อตัวของหนี้ด้อยคุณภาพที่กำลังจะมาถึง
- เราคงประมาณการปี 2024-26 และคำแนะนำซื้อ

คาดกำไร 1Q24 จะฟื้นตัวแม้ว่า ECL และ Credit costs จะปรับขึ้น

แม้ว่าสภาวะเศรษฐกิจจะมีความท้าทาย เราเชื่อว่า BBL ได้แสดงให้เห็นถึงความแข็งแกร่งของ ธนาคารฯ ด้วยกำไรสุทธิ 1Q24 ที่คาดว่าจะฟื้นตัว เราคาดกำไรสุทธิ 1Q24 เท่ากับ 10.4 พัน ลบ. (+17.7% q-q, +3.0% y-y) ซึ่งคิดเป็น 25% ของประมาณการทั้งปี่ของเรา ผลประกอบการที่คาดว่า จะดีดังกล่าวน่าจะได้ปัจจัยหนุนสำคัญจากค่าใช้จ่ายในการดำเนินงานที่ลดลงหลังผลกระทบจาก ์ ปัจจัยด้านฤดกาลใน 4Q23 และธรกิจหลักอันประกอบด้วยรายได้ดอกเบี้ยสทธิ (NII) และรายได้ที่ ไม่ใช่ดอกเบี้ยสทธิ (non-NII) ที่เพิ่มขึ้นเล็กน้อย เราคาดว่าธนาคารฯ จะบริหาร ECL และ Credit costs ที่ปรับขึ้นได้อย่างมีประสิทธิผลโดยไม่ส่งผลกระทบต่อผลกำไรขาดทุนก่อนหักสำรอง (PPOP) ที่คาดว่าจะปรับขึ้น 24.9% q-q และ 8.2% y-y นอกจากนี้แล้วสินเชื่อยังน่าจะโตสอดคล้องกับเป้า ี ประมาณการปี 2024 ของธนาคารฯ และสมมติฐานของเรา เราคาดว่าส่วนต่างดอกเบี้ย (NIM) จะ ขยายตัวต่อเนื่องใน 1Q24 โดยได้ปัจจัยผลักดันจากการขึ้นอัตราดอกเบี้ยใน 4Q23 ในส่วนของ non-NII เราคาดว่ารายได้ค่าธรรมเนียมสุทธิจะปรับขึ้นเล็กน้อยจากการเติบโตของรายได้ ค่าธรรมเนียมที่เกี่ยวกับสินเชื่อ

การเสื่อมของคุณภาพสินทรัพย์อยู่ในระดับที่จัดการได้

ในขณะที่มีความกังวลเกี่ยวกับประเด็นปัญหาสินเชื่อบรรษัทขนาดใหญ่ใน 1Q24 โดยเฉพาะอย่างยิ่ง ITD และห่วงโซ่อุปทานที่เกี่ยวข้อง ปัญหาเหล่านี้สามารถจัดการได้ในกรณีที่มีข้อตกลงร่วมระหว่าง ธนาคารเจ้าหนี้ให้อัดฉีดสภาพคล่องเพิ่มเติมโดยน่าจะเห็น BBL บังคับให้ลูกหนี้ขายสินทรัพย์ บางส่วนเพื่อเพิ่มสภาพคล่อง เราเห็นแนวโน้ม Credit cost ขาขึ้นในช่วง 1H24 และแนวโน้มที่ ตรงกันข้ามในช่วง 2H24 จากข้อมูลของ BBL NIM ที่คาดว่าจะสูงขึ้นในช่วง 1H24 น่าจะช่วยหนุน สำรองให้สูงขึ้นก่อนที่ NIM จะลดในช่วง 2H24 ในด้านสัดส่วนหนี้ด้อยคุณภาพ เราคาดว่าตัวเลข[่]จะ ปรับขึ้นเล็กน้อยเป็น 3.26% ใน 1Q24 ด้วยเหตุดังกล่าว Coverage ratio จึงน่าจะเพิ่มเป็น 325% จาก 315% ใน 4Q23

คงประมาณการปี 2024-26 โดยมี NII และการเติบโตของค่าธรรมเนียมเป็นปัจจัยหนุนสำคัญ

เราคงประมาณการปี 2024-26 ของเราที่คาดว่ากำไรจะโต 3.7% CAGR โดยมีสมมติฐานจาก NIM ที่ทรงตัว (พร้อมอัตราดอกเบี้ยอ้างอิงที่ทรงตัวในปี 2024) และ Credit cost ที่เพิ่มขึ้นเล็กน้อย (ท่ามกลางเศรษฐกิจที่พื้นตัวต่ำและความกังวลที่เพิ่มขึ้นเกี่ยวกับคุณภาพสินเชื่อบรรษัท) ซึ่งสูงกว่า เป้าประมาณการของธนาคารฯ

คงคำแนะนำซื้อจากผลตอบแทนในรูปเงินปันผลที่น่าสนใจ

เราคงคำแนะนำซื้อจากการดำเนินงานที่มีการกระจายความเสี่ยงที่ดี ราคาเป้าหมายปี 2024 ของเรา ที่ 191 บาท (GGM) คิดเป็นค่า P/BV อยู่ที่ 0.65x ปัจจุบันหุ้นมีการซื้อขายในราคาที่ถูก และต่ำกว่า ค่า P/BV เฉลี่ย 5 ปีย้อนหลังที่ 0.60x พร้อมผลตอบแทนในรปเงินปันผลที่น่าสนใจถึง 4-5% ต่อปี

KEY STOCK DATA

YE Dec (THB m)	2023	2024E	2025E	2026E
Operating profit	52,046	53,094	55,298	58,609
Net profit	41,635	42,037	43,779	46,404
EPS (THB)	21.81	22.02	22.93	24.31
vs Consensus (%)	-	(4.9)	(4.4)	(3.9)
Recurring net profit	41,635	42,037	43,779	46,404
Core EPS (THB)	21.81	22.02	22.93	24.31
Chg. In EPS est. (%)	-	-	-	-
EPS growth (%)	42.1	1.0	4.1	6.0
Core P/E (x)	6.3	6.3	6.0	5.7
Dividend yield (%)	4.6	4.7	4.8	5.1
Price/book (x)	0.5	0.5	0.4	0.4
ROE (%)	8.1	7.7	7.6	7.6
ROA (%)	0.9	0.9	0.9	1.0



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(2.8)	(7.4)	(9.5)
Relative to country (%)	(1.0)	(4.9)	5.0
Mkt cap (USD m)			7,264
3m avg. daily turnover (USD m)			33.6
Free float (%)			76
Major shareholder		Thai N\	/DR (23%)
12m high/low (THB)		175	.00/138.00
Issued shares (m)			1,909

Sources: Bloomberg consensus; FSSIA estimates



Usanee Liurut, CISA

Fundamental Investment Analyst on Capital Market; License no. 017928 usanee.l@fssia.com, +66 2646 9967

Maeta Cherdsatirakul

Research Assistant

maeta.c@fssia.com, +66 2646 9971

PREPARED BY FSS INTERNATIONAL INVESTMENT ADVISORY SECURITIES CO LTD (FSSIA). ANALYST CERTIFICATION AND IMPORTANT DISCLOSURES CAN BE FOUND AT THE END OF THIS REPORT

Investment thesis

We have toned down our short-term business outlook but retain our BUY call due to:

- Alarming signs from its business in Vietnam and China in the short term due to their economic slowdowns, which could impact working capital loan demand.
- Among our covered banks, BBL should benefit the most from the interest rate uptrend. However, if the interest rate trends in the opposite direction, BBL would be hit the most, in our view.
- 3) BBL also has solid long-term growth potential from its domestic and international banking businesses.
- 4) Its efficiency in asset quality management with the highest coverage ratio (LLR/NPL) and comfortable liquidity ratio (LDBR), coupled with a solid capital base, are vital catalysts to support growth and drive ROE in the long run.

Company profile

Bangkok Bank is a leading bank in Thailand and a major regional bank in Southeast Asia. It is a market leader in corporate and business banking, with a large retail customer base.

www.bangkokbank.com

Principal activities (revenue, 2023)

Net interest income - 78.1 %



Non-interest income - 21.9 %

Source: Bangkok Bank

Major shareholders

- Thai NVDR 23.2 %
- Social Security Office 2.7 %
- State Street Europe Ltd 2.5 %
- Others 71.6 %



Source: Bangkok Bank

Catalysts

Potential share price catalysts for BBL include:

- Higher foreign direct investment (FDI) into Thailand and ASEAN countries.
- The Bank of Thailand increasing its policy rate above expectations.
- Lower credit cost from better-than-expected asset quality.

Risks to our call

Downside risks to our GGM-based TP are 1) prolonged economic sluggishness affecting loan growth and asset quality; and 2) the impact of new regulations from the Bank of Thailand.

Event calendar

Date	Event
Apr 2024	1Q24 results announcement

Key assumptions

	2024E	2025E	2026E
Net profit (THB m)	42,037	43,779	46,404
Net profit growth (%)	1.0	4.1	6.0
NIM (%)	2.94	2.91	2.91
Loan growth (%)	3.0	3.0	3.0
Fee growth (%)	1.0	1.0	1.0
Non-NII growth (%)	2.8	1.4	1.5
Credit cost (bp)	129	122	115
Cost to income (%)	48.9	49.4	49.8

Source: FSSIA estimates

Earnings sensitivity

		2024E						
Loan growth	±2ppt	1	3.0	5				
% change in net profit		(2.4)	-	2.4				
NIM (%)	±5bp	2.89	2.94	2.99				
% change in net profit		(4.4)	-	4.4				
Credit cost (bp)	±10bp	119	129	139				
% change in net profit		4.9	-	(4.9)				

Source: FSSIA estimates

Exhibit 1: BBL – 1Q24 earnings preview

Year end Dec 31	1Q23	2Q23	3Q23	4Q23	1Q24E	C <u>ha</u> ı	nge	2024E	Change	% of
	(THB m)	(q-q%)	(y-y%)	(THB m)	(y-y %)	2024E				
Net interest income	30,077	31,487	34,130	35,165	35,900	2.1	19.4	134,594	2.9	26.7
Non-interest income	10,215	10,956	8,443	7,013	7,343	4.7	(28.1)	37,643	2.8	19.5
Fee income - net	7,122	6,571	6,773	6,768	6,809	0.6	(4.4)	27,513	1.0	24.7
Total operating income	40,293	42,443	42,573	42,178	43,243	2.5	7.3	172,237	2.8	25.1
Total operating expenses	18,850	20,111	19,208	23,607	20,050	(15.1)	6.4	84,143	2.9	23.8
PPOP before tax	21,442	22,332	23,365	18,572	23,193	24.9	8.2	88,094	2.8	26.3
Expected credit loss	8,474	8,880	8,969	7,343	10,000	36.2	18.0	35,000	4.0	28.6
Income tax	2,728	2,047	2,938	2,281	2,678	17.4	(1.8)	10,619	6.3	25.2
Non-controlling interest	112	112	108	84	80	(5.0)	(28.6)	438	5.0	18.3
Net profit	10,129	11,293	11,350	8,863	10,435	17.7	3.0	42,037	1.0	24.8
EPS (THB)	5.31	5.92	5.95	4.64	5.47	17.7	3.0	22.02	1.0	24.8
Key ratios	1Q23	2Q23	3Q23	4Q23	1Q24	Chai	nge	2024E	Change	
Asset quality ratio	(%)	(%)	(THB m)	(THB m)	(THB m)	(q-q%)	(y-y%)	(%)	(y-y %)	
Gross NPLs (THB m)	98,359	93,285	94,884	85,955	87,955	(9.4)	(11.6)	87,963	(11.6)	
% from prior period	1.2	(5.2)	1.7	(9.4)	2.3			2.3		
NPL ratio (%)	3.73	3.46	3.48	3.22	3.26			3.20		
Coverage ratio (%)	265	287	283	315	325			321		
NPL ratio (%) - reported	3.09	2.90	3.00	2.70						
Credit cost (bp)	127	133	132	109	149			129		
Profitability ratio	(%)	(%)	(%)	(%)	(%)			(%)		
Cost to income ratio	46.8	47.4	45.1	56.0	46.4			48.9		
Average yield (%)	4.01	4.26	4.51	4.70	4.82			4.43		
Cost of funds (%)	1.53	1.70	1.74	1.87	1.94			1.80		
NIM (%)	2.73	2.83	3.06	3.14	3.20			2.94		
NIM (%) - reported	2.84	2.91	3.11	3.19						
Non-NII /total inc. (%)	25.4	25.8	19.8	16.6	17.0			21.9		
Loan growth	(%)	(%)	(%)	(%)	(%)			(%)		
q-q	(1.6)	2.2	0.9	(1.9)	1.0					
у-у	2.0	1.7	(2.6)	(0.4)	2.2			3.0		
Year-to-date	(1.6)	0.6	1.5	(0.4)	1.0					

Sources: BBL; FSSIA estimates

Exhibit 2: BBL – staged loans and ECL

	2021	2022	2023	2021	2022	2023
	(THB b)	(THB b)	(THB b)	(%)	(%)	(%)
Staged loans				% Staged Ioans		
Stage 1	2,356	2,450	2,431	90.8	91.0	90.6
Stage 2	136	142	164	5.3	5.3	6.1
Stage 3	104	100	90	4.0	3.7	3.3
Total	2,596	2,693	2,684	100.0	100.0	100.0
Allowance for ECL				% ECL to loans		
Stage 1	80	97	104	3.4	3.9	4.3
Stage 2	65	73	87	48.0	51.4	53.2
Stage 3	74	74	68	71.8	73.3	75.7
Total	220	243	259	8.5	9.0	9.6
LLR/ Loans	(%)	(%)	(%)			
Stage 1	3.4	3.9	4.3			
Stage 2	48.0	51.4	53.2			
Stage 3	71.8	73.3	75.7			
Total	8.5	9.0	9.6			
	(%)	(%)	(%)			
NPL / TL	4.0	3.7	3.3			
NPL vs. Stage 2 loans / TL	9.2	9.0	9.4			
LLR / NPL	212	243	289			
LLR / (NPL vs. Stage 2)	92	100	102			

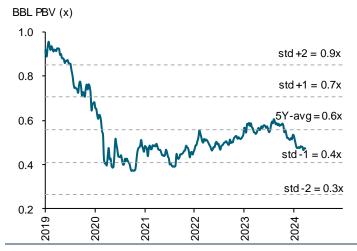
Sources: BBL; FSSIA's compilation

Exhibit 3: GGM-based 2024 TP

Gordon Growth Model	2024E
Sustainable ROE	7.0%
g	1.0%
ROE-g	6.0%
Beta	0.90
RF	3.0%
MRP	8.0%
COE	10.2%
COE-g	9.2%
ROE-g/COE-g (PBV)	0.65
FV	191.0

Source: FSSIA estimates

Exhibit 5: BBL - one-year prospective P/BV band



Sources: Bloomberg; FSSIA estimates

Exhibit 4: Share price performance of banks under coverage, as of 25 March 2024

		Price performance									
	1M	1M 3M 6M 1Y									
	(%)	(%)	(%)	(%)	(%)						
BBL TB	(2.81)	(8.28)	(14.77)	(9.48)	(11.50)						
KBANK TB	(1.61)	(7.58)	(0.81)	(7.22)	(9.63)						
KKP TB	2.50	4.06	(5.96)	(21.15)	1.99						
КТВ ТВ	3.07	(7.69)	(9.68)	(0.59)	(8.70)						
SCB TB	1.78	10.10	12.25	11.71	8.02						
TISCO TB	(0.75)	0.76	0.25	(1.24)	(0.50)						
ТТВ ТВ	(2.13)	14.29	10.84	34.31	10.18						
SETBANK	(0.24)	(0.91)	(2.98)	0.03	(3.02)						
SET	(1.83)	(2.90)	(8.13)	(13.78)	(3.06)						

Source: Bloomberg

Exhibit 6: BBL - one-year prospective PER band



Sources: Bloomberg; FSSIA estimates

Exhibit 7: Peer regional banks comparison, as of 25 March 2024

Company name	BBG	Share	Target	Upside	Market	P	E	PI	BV	R	OE	Div	yld -
	code	price	price		Сар.	24E	25E	24E	25E	24E	25E	24E	25
		(LCY)	(LCY)	(%)	(USD b)	(x)	(x)	(x)	(x)	(%)	(%)	(x)	()
Thailand													
Bangkok Bank	BBL TB	138.50	191.00	38	7,264.0	6.3	6.0	0.5	0.4	7.7	7.6	4.7	4
Kasikornbank	KBANK TB	122.00	140.00	15	7,942.2	6.6	6.1	0.5	0.5	8.1	8.4	4.3	4
Krung Thai Bank	KTB TB	16.80	19.90	18	6,451.4	6.2	6.1	0.5	0.5	9.1	8.8	5.3	5
SCB X	SCB TB	114.50	118.00	3	10,592.8	8.7	8.3	0.8	0.7	9.0	9.1	6.8	7
TMBThanachart Bank	ТТВ ТВ	1.84	2.19	19	4,897.2	10.9	10.6	0.8	0.7	7.0	7.0	5.2	5
Kiatnakin Bank	KKP TB	51.25	50.60	(1)	1,192.4	7.5	7.0	0.7	0.6	9.3	9.4	6.8	7
Tisco Financial Group	TISCO TB	99.25	97.00	(2)	2,183.4	11.8	11.7	1.8	1.8	15.7	15.6	8.1	8
Thailand weighted average					5,739	9.2	8.7	0.7	0.7	8.4	8.4	5.0	5
Hong Kong													
Industrial & Comm Bank of China	1398 HK	3.95	n/a	n/a	242,015.1	3.7	3.5	0.4	0.3	10.2	10.0	8.5	8
China Construction Bank	939 HK	4.79	n/a	n/a	158,515.5	3.3	3.1	0.3	0.3	10.9	10.6	9.1	9
HSBC Holdings	5 HK	61.20	n/a	n/a	150,009.5	6.4	6.5	8.0	8.0	14.5	12.3	9.9	7
Bank of China	3988 HK	3.24	n/a	n/a	163,567.9	4.0	3.8	0.4	0.3	9.7	9.5	7.8	8
Hong Kong average					178,527	4.3	4.2	0.5	0.4	11.3	10.6	8.8	8
China													
Industrial & Comm Bank of China	601398 CH	5.29	n/a	n/a	242,206.6	5.1	4.9	0.5	0.5	10.3	10.0	6.0	6
Agricultural Bank of China	601288 CH	4.21	n/a	n/a	199,400.2	5.5	5.2	0.6	0.5	10.7	10.5	5.6	5
China Construction Bank	601939 CH	6.85	n/a	n/a	158,640.9	5.0	4.8	0.5	0.5	11.1	10.8	6.0	6
Bank of China	601988 CH	4.40	n/a	n/a	163,697.3	5.8	5.5	0.5	0.5	9.9	9.6	5.5	5
China average					190,986	5.4	5.1	0.5	0.5	10.5	10.2	5.8	6
South Korea													
KB Financial Group	105560 KS	72,000	n/a	n/a	22,173.4	5.7	5.2	0.5	0.4	8.8	8.9	4.5	4
Shinhan Finanicial Group	055550 KS	50,600	n/a	n/a	19,612.9	5.6	5.2	0.5	0.4	8.8	8.7	4.3	4
Hana Financial Group	086790 KS	62,600	n/a	n/a	13,754.7	5.0	4.6	0.5	0.4	9.3	9.2	5.8	6
Industrial Bank of Korea	024110 KS	15,380	n/a	n/a	9,162.3	4.5	4.3	0.4	0.4	9.0	8.9	6.8	7
South Korea average					16,176	5.2	4.8	0.4	0.4	9.0	9.0	5.4	5
Indonesia													
Bank Central Asia	BBCA IJ	10,075	n/a	n/a	78,051.8	23.0	21.1	4.6	4.2	21.0	20.8	2.6	2
Bank Rakyat Indonesia Persero	BBRI IJ	6,250	n/a	n/a	59,735.0	13.8	12.3	2.8	2.6	21.0	22.0	5.6	6
Bank Mandiri Persero	BMRI IJ	7,250	n/a	n/a	42,400.1	11.5	10.5	2.3	2.1	21.5	21.3	4.9	5
Bank Negara Indonesia Persero	BBNI IJ	5,925	n/a	n/a	13,991.8	9.3	8.3	1.3	1.2	15.1	15.5	4.7	5
Bank Syariah Indonesia	BRIS IJ	2,660	n/a	n/a	7,739.8	18.5	15.8	2.8	2.5	16.3	16.7	0.9	1
Indonesia average					40,384	15.2	13.6	2.8	2.5	19.0	19.3	3.8	4
Malaysia		•								•		•	
Malayan Banking	MAY MK	9.62	n/a	n/a	24,670.2	11.8	11.3	1.2	1.2	10.4	10.5	6.3	6
Public Bank	PBK MK	4.24	n/a	n/a	17,377.2	11.7	11.1	1.4	1.3	12.5	12.4	4.7	4
CIMB Group Holdings	CIMB MK	6.50	n/a	n/a	14,626.4	9.2	8.7	1.0	0.9	10.7	10.8	6.1	6
Hong Leong Bank	HLBK MK	19.38	n/a	n/a	8,863.6	9.9	9.2	1.1	1.0	11.5	11.4	3.4	3
RHB Bank	RHBBANK MK	5.62	n/a	n/a	5,116.4	8.4	8.0	0.7	0.7	9.2	9.3	7.2	7
Malaysia average	TO IDD/ WITCHIN	0.02	11/4	7,74	14,131	10.2	9.7	1.1	1.0	10.8	10.9	5.5	5
Singapore					14,101	10.2	<u> </u>		1.0	10.0	10.0	0.0	
DBS Group Holdings	DBS SP	35.50	n/a	n/a	69,012.5	9.5	9.5	1.5	1.4	16.0	15.3	6.5	7
Oversea-Chinese Banking	OCBC SP	13.58	n/a	n/a	45,699.7		9.5 8.5	1.5	1.4	12.8	12.1	6.2	6
Oversea-Chinese Banking United Overseas Bank	UOB SP					8.6 8.3			1.0	12.8	12.1		
	00b 3F	28.72	n/a	n/a	36,077.4 50.263	8.3	8.1 8.7	1.0		12.6		6.1	6
Singapore average					50,263 78,645	8.8	8.7	1.2	1.1	13.8	13.3	5.8	6
Regional average (excl. Thailand)													

Sources: Bloomberg; FSSIA estimates

Financial Statements

Bangkok Bank

Profit and Loss (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026
nterest Income	139,088	194,365	202,719	210,424	218,320
nterest expense	(36,865)	(63,505)	(68,125)	(71,981)	(74,559
Net interest income	102,223	130,860	134,594	138,443	143,76
Net fees & commission	27,508	27,234	27,513	27,789	28,066
Foreign exchange trading income	5,155	5,544	5,544	5,544	5,54
Securities trading income	(1,454)	(482)	0	0	(
Dividend income	2,306	2,330	2,447	2,569	2,698
Other income	3,156	2,001	2,139	2,287	2,440
Non interest income	36,672	36,627	37,643	38,189	38,75
Total income	138,895	167,487	172,237	176,632	182,51
Staff costs	(34,794)	(35,921)	(38,436)	(39,973)	(41,572
Other operating costs	(34,225)	(45,854)	(45,707)	(47,360)	(49,334
Operating costs	(69,019)	(81,775)	(84,143)	(87,333)	(90,905
Pre provision operating profit	69,876	85,712	88,094	89,298	91,609
Expected credit loss	(32,647)	(33,667)	(35,000)	(34,000)	(33,000
Other provisions	-	-	-	-	
Dperating profit	37,229	52,046	53,094	55,298	58,609
Recurring non operating income	0	0	0	0	,
Associates	-	-	-	-	
Goodwill amortization	-	-	-	-	
Non recurring items	0	0	0	0	
Profit before tax	37,229	52,046	53,094	55,298	58,609
Гах	(7,484)	(9,993)	(10,619)	(11,060)	(11,722
Profit after tax	29,746	42,052	42,475	44,239	46,88
Non-controlling interest	(440)	(417)	(438)	(460)	(483
Preferred dividends	(440)	(417)	(430)	(400)	(400
Other items	-	-	-	-	
	20.206	44 625	40.027	42.770	46.40
Reported net profit	29,306	41,635	42,037 0	43,779 0	46,40
Non recurring items & goodwill (net)	20.200	44.005			
Recurring net profit	29,306	41,635	42,037	43,779	46,40
Per share (THB)	45.05	04.04	22.02	22.02	04.0
Recurring EPS *	15.35	21.81	22.02	22.93	24.3
Reported EPS	15.35	21.81	22.02	22.93	24.3
DPS	4.50	6.40	6.50	6.70	7.1
Growth	0.1.1				
Net interest income (%)	24.4	28.0	2.9	2.9	3.
Non interest income (%)	(30.0)	(0.1)	2.8	1.4	1.
Pre provision operating profit (%)	3.9	22.7	2.8	1.4	2.
Operating profit (%)	12.3	39.8	2.0	4.2	6.
Reported net profit (%)	10.6	42.1	1.0	4.1	6.
Recurring EPS (%)	10.6	42.1	1.0	4.1	6.0
Reported EPS (%)	10.6	42.1	1.0	4.1	6.0
ncome Breakdown					
Net interest income (%)	73.6	78.1	78.1	78.4	78.
Net fees & commission (%)	19.8	16.3	16.0	15.7	15.
Foreign exchange trading income (%)	3.7	3.3	3.2	3.1	3.
Securities trading income (%)	(1.0)	(0.3)	-	-	
Dividend income (%)	1.7	1.4	1.4	1.5	1.
Other income (%)	2.3	1.2	1.2	1.3	1.
Operating performance					
Gross interest yield (%)	3.22	4.38	4.43	4.42	4.4
Cost of funds (%)	1.01	1.71	1.80	1.84	1.8
Net interest spread (%)	2.21	2.67	2.63	2.58	2.5
Net interest margin (%)	2.4	3.0	2.9	2.9	2.3
Cost/income(%)	49.7	48.8	48.9	49.4	49.
Cost/assets(%)	1.6				49.
		1.8	1.8	1.8	
Effective tax rate (%)	20.1	19.2	20.0	20.0	20.
Dividend payout on recurring profit (%)	29.3	29.3	29.5	29.2	29.
ROE (%)	5.9	8.1	7.7	7.6	7.0
ROE - COE (%)	(4.3)	(2.1)	(2.5)	(2.6)	(2.6
ROA (%)	0.7	0.9	0.9	0.9	1.
RORWA (%)	1.0	1.4	1.4	1.4	2.

Sources: Bangkok Bank; FSSIA estimates

Financial Statements

Bangkok Bank

Balance Sheet (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Gross customer loans	2,682,691	2,671,964	2,752,123	2,834,687	2,919,727
Allowance for expected credit loss	(243,474)	(270,539)	(282,789)	(294,689)	(306,239)
nterest in suspense	10,138	24,236	12,935	13,323	13,723
Net customer loans	2,449,355	2,425,661	2,482,269	2,553,321	2,627,211
Bank loans	766,074	757,120	779,833	803,228	827,325
Government securities	-	-	-	-	-
Trading securities	-	-	-	-	-
nvestment securities	926,608	1,062,668	1,137,055	1,205,278	1,277,595
Cash & equivalents	52,433	45,518	53,600	49,481	44,748
Other interesting assets	-	-	-	-	-
Γangible fixed assets	73,909	72,855	76,948	81,150	85,472
Associates	-	-	-	-	-
Goodwill	-	-	-	-	-
Other intangible assets	-	-	-	-	-
Other assets	153,373	150,663	153,005	155,464	158,046
Total assets	4,421,752	4,514,484	4,682,710	4,847,922	5,020,398
Customer deposits	3,210,896	3,184,283	3,279,812	3,378,206	3,479,552
Bank deposits	262,522	334,219	367,641	393,376	420,912
Other interest bearing liabilities	188,302	212,505	218,880	225,446	232,210
Non interest bearing liabilities	252,891	252,647	255,541	258,482	261,472
Hybrid Capital	-	-	-	-	
Total liabilities	3,914,610	3,983,654	4,121,874	4,255,511	4,394,146
Share capital	19,088	19,088	19,088	19,088	19,088
Reserves	486,258	509,886	539,707	571,078	604,694
Total equity	505,346	528,975	558,796	590,167	623,782
Non-controlling interest	1,796	1,855	2,041	2,245	2,469
Total liabilities & equity	4,421,752	4,514,484	4,682,710	4,847,922	5,020,398
Supplementary items					
Risk weighted assets (RWA)	3,008,228	3,002,132	3,114,002	3,223,868	C
Average interest earning assets	4,325,741	4,432,852	4,580,381	4,756,102	4,933,920
Average interest bearing liabilities	3,658,397	3,709,456	3,781,959	3,902,102	4,038,216
CET 1 capital	447,590	477,618	507,248	538,238	
rotal capital	551,698	581,726	611,356	642,346	C
Gross non performing loans (NPL)	97,188	85,955	87,963	90,302	92,981
Per share (THB)					
Book value per share	264.74	277.12	292.74	309.18	326.79
Fangible book value per share	264.74	277.12	292.74	309.18	326.79
Growth	201.71	277.12	202.7 1	000.10	020.70
Gross customer loans	3.6	(0.4)	2.0	3.0	3.0
		(0.4)	3.0		
Average interest earning assets	8.4	2.5	3.3	3.8	3.7
Fotal asset (%)	2.0	2.1	3.7	3.5 3.5	3.6
Risk weighted assets (%)	5.0	(0.2)	3.7		nm
Customer deposits (%)	1.7	(8.0)	3.0	3.0	3.0
Leverage & capital measures					
Customer loan/deposits (%)	76.3	76.2	75.7	75.6	75.5
Equity/assets (%)	11.4	11.7	11.9	12.2	12.4
Tangible equity/assets (%)	11.4	11.7	11.9	12.2	12.4
RWA/assets (%)	68.0	66.5	66.5	66.5	
CET 1 CAR (%)	14.9	15.9	16.3	16.7	
Γotal CAR (%)	18.3	19.4	19.6	19.9	
Asset Quality (FSSIA's calculation)					
Change in NPL (%)	(3.9)	(11.6)	2.3	2.7	3.0
NPL/gross loans (%)	3.6	3.2	3.2	3.2	3.2
Allowance for ECL/gross loans (%)	9.1	10.1	10.3	10.4	10.5
Allowance for ECL/NPL (%)	250.5	314.7	321.5	326.3	329.4
Johnstian	2022	2022	20245	20255	_20265
/aluation	2022	2023	2024E	2025E	2026E
Recurring P/E (x) *	9.0	6.3	6.3	6.0	5.7
9 ' ()	12.4	8.8	8.7	8.3	7.9
Recurring P/E @ target price (x) *	12.4				
Recurring P/E @ target price (x) *	9.0	6.3	6.3	6.0	5.7
Recurring P/E @ target price (x) * Reported P/E (x)		6.3 4.6	6.3 4.7	6.0 4.8	
Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%)	9.0				5.1
	9.0 3.2	4.6	4.7	4.8	5.7 5.1 0.4 0.4
Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x)	9.0 3.2 0.5	4.6 0.5	4.7 0.5	4.8 0.4	5.1 0.4

Sources: Bangkok Bank; FSSIA estimates

Bangkok Bank PCL (BBL TB)



Exhibit 8: FSSIA ESG score implication

62.08 /100

Rating	Score	Implication
****	>79-100	Leading its industry peers in managing the most significant ESG risks which not only better cost efficiency but also lead to higher profitability.
****	>59-79	A mixed track record of managing the most significant ESG risks and opportunities relative to industry peers.
***	>39-59	Relevant ESG materiality matrix has been constructively addressed, well-managed and incorporated into day-to-day operations, in which targets and achievements are evaluated annually.
**	>19-39	Relevant ESG materiality matrix has been identified with key management in charge for progress to be followed up on and to provide intensive disclosure. Most targets are conventional and achievable.
*	1-19	The company has adopted the United Nations Sustainable Development Goals (UN SDGs), established sustainability management guidelines and fully complies with regulations or ESG suggested guidance from related organizations such as the SET and SEC.

Sources: FSSIA estimates

Exhibit 9: ESG – peer comparison

	FSSIA	Domestic ratings						Global ratings						Bloomberg	
	ESG score	DJSI	SET THSI	THSI	CG score	AGM level	Thai CAC	Morningstar ESG risk	ESG Book	MSCI	Moody's	Refinitiv	S&P Global	ESG score	Disclosure score
SET100	69.20	5.34	4.40	4.40	4.76	4.65	3.84	Medium	51.76	BBB	20.87	58.72	63.91	3.72	28.17
Coverage	67.12	5.11	4.15	4.17	4.83	4.71	3.53	Medium	52.04	BB	16.97	56.85	62.09	3.40	31.94
BBL	62.08		Y	Υ	5.00	5.00	Certified	Medium	54.70		29.00	58.68	67.00	2.19	60.06
KBANK	84.17	Υ	Y	Υ	5.00	5.00	Certified	Medium	62.19	AA	46.00	73.83	83.00	4.05	59.77
KTB	63.10		Y	Υ	5.00	5.00	Certified	Medium	53.59	BBB	34.00	64.64	64.00	2.12	59.11
SCB	62.57	Υ	Υ	Υ	5.00	4.00		High		Α			86.00	3.43	
KKP	62.96		Υ	Υ	5.00	5.00	Certified	Medium	52.81	BBB		77.56	26.00	2.18	45.90
TISCO	61.17		Υ	Υ	5.00	5.00	Certified	Medium	61.41			66.13	29.00	3.57	44.21
TTB	63.69		Y	Υ	5.00	5.00	Certified	Medium	53.98		36.00	56.17	71.00	3.20	52.96

 $Sources: \underline{SETTRADE.com}; FSSIA's compilation$

Exhibit 10: ESG score by Bloomberg

FY ending Dec 31	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
ESG financial materiality scores - ESG score	1.69	1.69	1.92	2.36	2.60	2.83	2.36	2.19
BESG environmental pillar score	0.00	0.00	0.00	0.00	0.31	0.89	0.88	0.08
BESG social pillar score	2.05	2.03	2.39	3.54	3.58	3.58	2.32	2.81
BESG governance pillar score	3.44	3.49	3.84	3.71	4.05	3.97	4.33	4.07
ESG disclosure score	43.14	43.98	49.13	55.53	55.31	57.88	60.92	60.06
Environmental disclosure score	16.79	16.79	31.23	39.72	38.87	44.22	44.55	44.55
Social disclosure score	36.31	36.31	37.33	45.68	48.25	48.25	48.25	45.68
Governance disclosure score	76.22	78.72	78.72	81.10	78.72	81.10	89.86	89.86
Environmental								
Emissions reduction initiatives	Yes							
Climate change policy	Yes							
Climate change opportunities discussed	No							
Risks of climate change discussed	No	No	No	No	No	No	Yes	Yes
GHG scope 1	_	_	4	12	12	14	12	22
GHG scope 2 location-based	_	_	20	68	67	61	58	61
GHG Scope 3	_	_	1	1	2	2	1	2
Carbon per unit of production	_	_	_	_	_	_	_	_
Biodiversity policy	No	No	Yes	Yes	No	No	No	No
Energy efficiency policy	Yes							
Total energy consumption	_	_	45	156	156	167	151	164
Renewable energy use	_	_	_	_	_	_	_	_
Electricity used	_	_	_	117	116	122	115	121
Fuel used - natural gas	_	_	_	_	_	_	_	_

Sources: Bloomberg; FSSIA's compilation

Exhibit 11: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 202
Fuel used - crude oil/diesel	No	N						
Waste reduction policy	Yes	Ye						
Hazardous waste	_	_	0	0	0	0	0	
Total waste	_	_	1	2	5	6	4	
Waste recycled	_	_	_	_	_	1	1	(
Waste sent to landfills	_	_	0	0	3	4	2	;
Environmental supply chain management	Yes	Ye						
Water policy	Yes	Ye						
Water consumption	_	_	_	124	128	116	92	10
Social								
Human rights policy	Yes	Ye						
Policy against child labor	Yes	Ye						
Quality assurance and recall policy	No	N						
Consumer data protection policy	No	No	Yes	Yes	Yes	Yes	Yes	Υe
Equal opportunity policy	Yes	Υe						
Gender pay gap breakout	Yes	Υe						
Pct women in workforce	34	65	67	67	67	67	67	6
Pct disabled in workforce	_	_	_	_	_	_	_	
Business ethics policy	Yes	Ye						
Anti-bribery ethics policy	Yes	Ye						
Health and safety policy	Yes	Ye						
Lost time incident rate - employees	_	_	_	_	_	_	_	
Total recordable incident rate - employees	0	0	0	0	0	0	0	
Training policy	Yes	Ye						
Fair remuneration policy	Yes	Y						
Number of employees – CSR	25,806	25,512	23,802	23,054	22,797	22,048	20,514	19,0
Employee turnover pct	10	10	10	10	10	8	11	10,00
Total hours spent by firm - employee training	3,134,200	765,360	638,014	702,052	1,267,540	883,463	1,313,310	710,37
Social supply chain management	Yes	Υ (
Governance								.,
Board size	17	17	18	17	17	19	19	
No. of independent directors (ID)	6	6	6	7	7	9	8	
No. of women on board	1	1	1	1	1	1	2	
No. of non-executive directors on board	11	12	13	9	8	10	9	
Company conducts board evaluations	Yes	Ye						
No. of board meetings for the year	12	12	12	12	13	13	12	
Board meeting attendance pct	12	12	12	96		95	98	(
Board duration (years)	3	3	3	3	3	3	3	
Director share ownership guidelines	No	1						
Age of the youngest director	48	49	50	51	52	53	52	!
Age of the oldest director	85	86	30 87	88	89	90	91	,
_								
No. of executives / company managers No. of female executives	60 22	64 21	64 22	67 20	66 22	70 24	66 21	
								2
Executive share ownership guidelines Size of audit committee	No 4	No 4	No 4	No 4	No 4	No 4	No 3	١
No. of ID on audit committee	4	4	4	4	4	4	3	,
Audit committee meetings	16	18	18	17	17	18	16	
Audit meeting attendance %	_	89	82	88	90	89	98	(
Size of compensation committee	3	3	3	3	2	3	3	
No. of ID on compensation committee	2	2	2	2	2	3	3	
No. of compensation committee meetings	10	7	10	11	10	11	9	
Compensation meeting attendance %	97	86	90	97	83	97	100	1
Size of nomination committee	3	3	3	3	2	3	3	
No. of nomination committee meetings	10	7	10	11	10	11	9	•
Nomination meeting attendance %	97	86	90	97	83	97	100	10
Sustainability governance								
Verification type	No	No	No	No	No	No	Yes	Y

Sources: Bloomberg; FSSIA's compilation

Disclaimer for ESG scoring

ESG score	Methodolog	У			Rating									
The Dow		•	transparent, rules-based	d component selection	Be a member and invited to the annual S&P Global Corporate									
Jones			panies' Total Sustainab				SA) for DJSI. Co							
Sustainability			al Corporate Sustainabil				of the S&P Glob							
Indices (<u>DJSI</u>) By S&P Global	Only the top- inclusion.	-ranked compa	anies within each indust	ry are selected for	scoring compar selected from the		fied. The constitu	uents of the D	JSI indices are					
				10 : 1:										
Sustainability Investment			lity in Environmental and ansparency in Governar	•	To be eligible for <u>THSI inclusion</u> , verified data must be scored at a minimum of 50% for each indicator, unless the company is a part of DJSI									
List (THSI)				n two crucial conditions:	during the assessment year. The scoring will be fairly weighted against the									
by The Stock			e board members and e		nature of the re	evant industry	y and materiality.		J					
Exchange of Thailand			and combined holding				from the THSI co							
(SET)		, ,	ıalifying criteria include: tors and free float violati	,	capitalization > THB5b (~USD150b); 2) free float >20%; and 3) liquidity									
			social & environmental	>0.5% of paid-up capital for at least 9 out of 12 months. The SETTHSI Index is a market capitalisation-weighted index, cap 5% quarterly weight										
	negative terr	itory; and 5) ea	arnings in red for > 3 ye	ears in the last 5 years.	maximum, and no cap for number of stocks.									
CG Score			n in sustainable develop				ories: 5 for Excell							
by Thai Institute of			with support from the St s are from the perspecti				-79), 2 for Fair (6 w 50. Weightings							
Directors		n of operations		ive of a triffd party, flot			w 50. Weightings olders (weight 2							
Association							sure & transpare							
(Thai IOD)					responsibilities	(35%).								
AGM level			hich shareholders' right				four categories:							
By Thai			into business operation		Very Good (90-	99), 3 for Fair	(80-89), and not	rated for sco	res below 79.					
Investors Association			 disclosed. All form impents to be evaluated and 	nually. The assessment										
(TIA) with			ures before the meeting											
support from			neeting (10%). (The first											
the SEC	circulation of sufficient information for voting; and 2) facilitating how voting rights can be exercised. The second assesses 1) the ease of attending meetings; 2) transparency													
			ss for Q&A. The third involves, resolutions and voting re											
TheiCAC					The decument	uill be review	ad bu a aamamista	a of pina prof	essionale A					
Thai CAC By Thai			Checklist include corrupt ols, and the monitoring a		The document will be reviewed by a committee of nine professionals. A passed Checklist will move for granting certification by the CAC Council									
Private Sector			s good for three years.	and developing e.			re twelve highly r							
Collective			ne a CAC certified member s		professionalism and ethical achievements.									
Action Against Corruption			an 18-month deadline to su essment, in place of policy a											
(CAC)	managers and	employees, esta	ablishment of whistleblowing											
** *		of policies to all	*											
Morningstar Sustainalytics			sk rating provides an ov of how much of a compa		A company's ESG risk rating score is the sum of unmanaged risk. The more risk is unmanaged, the higher ESG risk is scored.									
Odotal lary troo					more risk is unr	nanaged the	nianer Esta risk		more hak to driffid layed, the higher LOG flak to scotled.					
	risk is unmar	naged. Sources	to be reviewed include corp	porate publications and	more risk is unr	nanaged, the	nigner ESG risk	is scorea.						
	risk is unmar regulatory filing	naged. Sources gs, news and oth	to be reviewed include corports/web	porate publications and bsites, multi-sector	more risk is unr	Low	Medium	is scored.	Severe					
	risk is unmar regulatory filing information, co	naged. Sources gs, news and oth	s to be reviewed include corp er media, NGO reports/web k, ESG controversies, issuel	porate publications and bsites, multi-sector					Severe 40+					
ESG Book	risk is unmar regulatory filing information, co reports, and qu	naged. Sources gs, news and oth impany feedback uality & peer revi	s to be reviewed include cor ner media, NGO reports/web k, ESG controversies, issuer ews.	porate publications and bsites, multi-sector r feedback on draft ESG	NEGL 0-10	Low 10-20	Medium 20-30	High 30-40	40+					
ESG Book	risk is unmar regulatory filing information, co reports, and qu The ESG sco positioned to	naged. Sources gs, news and oth impany feedback uality & peer revie ore identifies so o outperform ov	to be reviewed include confer media, NGO reports/web. (, ESG controversies, issuedews. sustainable companies tiver the long term. The n	porate publications and battes, multi-sector r feedback on draft ESG hat are better nethodology considers	NEGL 0-10 The total ESG s scores using m	Low 10-20 core is calculateriality-base	Medium 20-30 ated as a weightd weights. The s	High 30-40 ed sum of the core is scaled	40+ features					
ESG Book	risk is unmar regulatory filing information, co reports, and qu The ESG sco positioned to the principle	naged. Sources gs, news and oth impany feedback uality & peer revie ore identifies so outperform of of financial ma	to be reviewed include con ter media, NGO reports/web, «, ESG controversies, issuer ews. 	porate publications and battes, multi-sector r feedback on draft ESG hat are better nethodology considers nation that significantly	NEGL 0-10 The total ESG s scores using m	Low 10-20 core is calculateriality-base	Medium 20-30 ated as a weight	High 30-40 ed sum of the core is scaled	40+ features					
ESG Book	risk is unmar regulatory filing information, co reports, and qu The ESG sco positioned to the principle helps explair	naged. Sources gs, news and oth impany feedback uality & peer revie ore identifies s o outperform or of financial man in future risk-ad	to be reviewed include confer media, NGO reports/web. (c. ESG controversies, issuedews.) sustainable companies to wer the long term. The nateriality including informations to the sustainable companies. Materiality including informations are sustainable companies. Materiality including informations are sustainable companies.	porate publications and battes, multi-sector r feedback on draft ESG hat are better nethodology considers nation that significantly ateriality is applied by	NEGL 0-10 The total ESG s scores using m	Low 10-20 core is calculateriality-base	Medium 20-30 ated as a weightd weights. The s	High 30-40 ed sum of the core is scaled	40+ features					
ESG Book	risk is unmar regulatory filing information, co reports, and qu The ESG sco positioned to the principle helps explair over-weightin	naged. Sources gs, news and oth impany feedback uality & peer revie ore identifies s o outperform or of financial man in future risk-ad	to be reviewed include confer media, NGO reports/web. (x, ESG controversies, issue) ews. ver the long term. The nateriality including inform tijusted performance. Math higher materiality and	porate publications and battes, multi-sector r feedback on draft ESG hat are better nethodology considers nation that significantly ateriality is applied by	NEGL 0-10 The total ESG s scores using m	Low 10-20 core is calculateriality-base	Medium 20-30 ated as a weightd weights. The s	High 30-40 ed sum of the core is scaled	40+ features					
	risk is unmar regulatory filling information, co- reports, and qu- The ESG sor positioned to the principle helps explair over-weightii weights on a	naged. Sources gs, news and oth mpany feedback uality & peer revi- pore identifies s o outperform on of financial man future risk-ading features with rolling quarter.	to be reviewed include confer media, NGO reports/web. (x, ESG controversies, issue) ews. sustainable companies to ver the long term. The nateriality including inform dijusted performance. Math higher materiality and rly basis.	porate publications and battes, multi-sector r feedback on draft ESG hat are better nethodology considers nation that significantly ateriality is applied by d rebalancing these	NEGL 0-10 The total ESG s scores using m and 100 with hi	Low 10-20 score is calcul ateriality-base gher scores in	Medium 20-30 ated as a weight d weights. The s dicating better p	High 30-40 ed sum of the core is scaled erformance.	40+ features d between 0					
	risk is unmar regulatory filling information, co reports, and qu The ESG sor positioned to the principle helps explair over-weighting weights on a MSCI ESG r.	naged. Sources gs, news and oth mpany feedback uality & peer revie ore identifies s o outperform or of financial man in future risk-ad ng features with u rolling quarter atings aim to n	to be reviewed include confer media, NGO reports/web. (x, ESG controversies, issue) ews. wer the long term. The nateriality including inform ijusted performance. Math higher materiality and rly basis. measure a company's materiality and	porate publications and battes, multi-sector r feedback on draft ESG hat are better nethodology considers nation that significantly ateriality is applied by	NEGL 0-10 The total ESG s scores using m and 100 with hi	Low 10-20 score is calcul ateriality-base gher scores in	Medium 20-30 ated as a weight d weights. The s dicating better policies. It uses a	High 30-40 ed sum of the core is scaled erformance.	40+ features d between 0					
	risk is unmar regulatory filling information, co reports, and qu The ESG sor positioned to the principle helps explair over-weighting weights on a MSCI ESG r.	naged. Sources gs, news and oth mpany feedback uality & peer revie ore identifies s o outperform or of financial man in future risk-ad ng features with u rolling quarter atings aim to n	to be reviewed include confer media, NGO reports/wet k, ESG controversies, issuedews. Sustainable companies the long term. The nateriality including inform digusted performance. Math higher materiality and rly basis. The according to the laggards according to the laggards.	porate publications and battes, multi-sector r feedback on draft ESG hat are better nethodology considers mation that significantly ateriality is applied by d rebalancing these nanagement of financially is their exposure to ESG rise	NEGL 0-10 The total ESG s scores using m and 100 with his relevant ESG risks and how well	Low 10-20 core is calcul ateriality-base gher scores in	Medium 20-30 ated as a weight d weights. The s dicating better positional dicating better positions. It uses a those risks relations	High 30-40 ed sum of the core is scaled erformance.	40+ features d between 0					
	risk is unmar regulatory filling information, co- reports, and qu- The ESG scr positioned to the principle helps explair over-weightii weights on a MSCI ESG ri- identify indus	naged. Sources gs, news and oth mpany feedback uality & peer review ore identifies s o outperform or of financial man future risk-ading features with rolling quarter atings aim to no stry leaders and	to be reviewed include conter media, NGO reports/web. (x, ESG controversies, issue) ews. Lustainable companies to the long term. The nateriality including information of the long term. The materiality including information of the long term. It is the long term. The materiality including informateriality and the long term. Materiality and the long terms are company's materiality and the long terms are companies to the long terms.	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by d rebalancing these	NEGL 0-10 The total ESG s scores using m and 100 with his relevant ESG risks and how well	Low 10-20 core is calcul ateriality-base gher scores in	Medium 20-30 ated as a weight d weights. The s dicating better positional dicating better positions. It uses a those risks relations	High 30-40 ed sum of the core is scaled erformance.	40+ features d between 0					
	risk is unmar regulatory filling information, co- reports, and qu- The ESG scor positioned to the principle helps explair over-weighting weights on a MSCI ESG re- identify indus	naged. Sources gs, news and oth mpany feedback uality & peer review ore identifies s o outperform or of financial man future risk-ading features with rolling quarter atings aim to no stry leaders an 8.571-10.000	to be reviewed include confer media, NGO reports/web. (x, ESG controversies, issue) ewes. The state of the companies to th	porate publications and battes, multi-sector r feedback on draft ESG hat are better nethodology considers mation that significantly ateriality is applied by d rebalancing these nanagement of financially is their exposure to ESG rise	NEGL 0-10 The total ESG s scores using m and 100 with his relevant ESG risks and how well	Low 10-20 core is calcul ateriality-base gher scores in	Medium 20-30 ated as a weight d weights. The s dicating better positional dicating better positions. It uses a those risks relations	High 30-40 ed sum of the core is scaled erformance.	40+ features d between 0					
	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA	naged. Sources ys, news and oth mpany feedback uality & peer revie ore identifies s o outperform or of financial man future risk-ading features wit rrolling quarter atings aim to n stry leaders an 8.571-10.000 7.143-8.570	to be reviewed include confer media, NGO reports/web, & ESG controversies, issuedews. Sustainable companies to wer the long term. The nateriality including informateriality including informational properties of the second state of the second	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by d rebalancing these management of financially to their exposure to ESG ris leading its industry in magament a mixed or unexceptions.	NEGL 0-10 The total ESG s scores using mand 100 with hi relevant ESG risk sand how well anaging the most si	Low 10-20 score is calcul atteriality-base pher scores in s and opportu they manage	Medium 20-30 ated as a weight d weights. The s dicating better positions unities. It uses a those risks relations	High 30-40 ed sum of the core is scaled erformance.	40+ I features I between 0					
	risk is unmar regulatory filling information, correports, and quere positioned to the principle helps explair over-weightli weights on a MSCI ESG ridentify industrial AAA AA BBB	naged. Sources ys, news and oth mpany feedback uality & peer revie ore identifies s o outperform ov of financial man future risk-ading features wit rrolling quarter atings aim to n stry leaders and 8.571-10.000 7.143-8.570 5.714-7.142	to be reviewed include conter media, NGO reports/web, & ESG controversies, issuedews. Sustainable companies to server the long term. The nateriality including information of the properties of the server and the language of the server and the server an	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by d rebalancing these management of financially to their exposure to ESG rise leading its industry in materiality in ma	NEGL 0-10 The total ESG s scores using mand 100 with hi relevant ESG risk sand how well anaging the most si	Low 10-20 score is calcul atteriality-base pher scores in s and opportu they manage	Medium 20-30 ated as a weight d weights. The s dicating better positions unities. It uses a those risks relations	High 30-40 ed sum of the core is scaled erformance.	40+ features d between 0					
	risk is unmar regulatory filling information, coreports, and quere positioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA AA BBB BB	naged. Sources gs, news and oth mpany feedback vality & peer revie ore identifies s o outperform ov of financial man future risk-ading features with rolling quarter atings aim to n stry leaders an 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285	to be reviewed include confer media, NGO reports/web, & ESG controversies, issuedews. Bustainable companies to see the long term. The nateriality including inform the light of the long term. The nateriality including inform the light of the long term. The nateriality and religious properties of the long terms of t	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by d rebalancing these management of financially to their exposure to ESG ris leading its industry in magament a mixed or unexceptions.	NEGL 0-10 The total ESG s scores using mand 100 with hi relevant ESG risk sand how well anaging the most si	Low 10-20 score is calcul atteriality-base pher scores in s and opportu they manage	Medium 20-30 ated as a weight d weights. The s dicating better positions unities. It uses a those risks relations	High 30-40 ed sum of the core is scaled erformance.	40+ I features I between 0					
	risk is unmar regulatory filling information, correports, and quere positioned to the principle helps explair over-weightin weights on a MSCI ESG ridentify industrial AAA AA BBB BB BB B	naged. Sources ys, news and oth mpany feedback adity & peer revier or eidentifies so outperform of offinancial man future risk-ading features with rolling quarter atings aim to notry leaders and 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 1.429-2.856	to be reviewed include confer media, NGO reports/web, & ESG controversies, issuedews. Bustainable companies to see the long term. The nateriality including inform the light of the long term. The nateriality including inform the light of the long term. The nateriality including inform the long term. The nateriality and religious according to the long term of	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by d rebalancing these management of financially to their exposure to ESG ris leading its industry in magament a mixed or unexceptions.	NEGL 0-10 The total ESG s scores using mand 100 with hi relevant ESG risk sand how well anaging the most si	Low 10-20 score is calcul ateriality-base pher scores in as and opportute they manage gnificant ESG ris maging the mos	Medium 20-30 ated as a weight d weights. The s dicating better positives. It uses a those risks relations and opportunities to significant ESG risks.	High 30-40 ed sum of the core is scaled erformance. rules-based n ive to peers. es	40+ I features I between 0					
ESG Book MSCI	risk is unmar regulatory filling information, correports, and quarter the ESG scopositioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA AA BBB BB B CCC	naged. Sources ys, news and oth mpany feedback ality & peer review or identifies so of financial man future risk-ading features with rolling quarter atings aim to nestry leaders and 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 1.429-2.856 0.000-1.428	to be reviewed include confer media, NGO reports/wet (x, ESG controversies, issuedews. Lustainable companies to ver the long term. The nateriality including information of the long term atteriality and the long term at the long term. The nateriality including information of the long term. The nateriality and the long term at the long term at the long term. The long term at the long term. The long term at the long term at the long term at the long term at the long term. The long term at the long term. The long term at the long term. The long term at the long term. The long term at the long term	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG ris leading its industry in maintaining a mixed or unexceptional industry peers	NEGL 0-10 The total ESGs scores using mand 100 with his relevant ESG risks and how well anaging the most signal track record of mand on its high exposed	Low 10-20 score is calcul ateriality-base gher scores in as and opportu they manage gnificant ESG ris anaging the mos	Medium 20-30 ated as a weight d weights. The s dicating better positive and the second	High 30-40 ed sum of the core is scaled erformance. rules-based new to peers. es sks and opportunt tess risks	40+ I features I between 0 Inethodology to					
MSCI Moody's ESG	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA AA BBB BB B CCC Moody's ass	naged. Sources ys, news and oth mpany feedback ality & peer revier or identifies so outperform of offinancial man future risk-ading features with rolling quarter atings aim to notry leaders and 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 1.429-2.856 0.000-1.428 esses the deg	to be reviewed include confer media, NGO reports/web, & ESG controversies, issuedews. Bustainable companies to wer the long term. The nateriality including inform dijusted performance. Math higher materiality and rly basis. measure a company's materiality and di laggards according to Leader: Average: Laggard: ree to which companies	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by d rebalancing these management of financially to their exposure to ESG rise leading its industry in main a mixed or unexceptional industry peers	NEGL 0-10 The total ESG s scores using m and 100 with hi relevant ESG risk sks and how well anaging the most si al track record of mand on its high expositions of the distribution of th	Low 10-20 core is calcul ateriality-base gher scores in as and opport they manage gnificant ESG ris anaging the mos ure and failure to	Medium 20-30 atted as a weight d weights. The s dicating better production unities. It uses a those risks relation ts significant ESG ris manage significant	High 30-40 ed sum of the core is scaled erformance. rules-based r ive to peers. es sks and opportu tt ESG risks	40+ I features I between 0 Inethodology to Inities relative to I policies. It					
MSCI Moody's ESG	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA AA BBB BB CCC Moody's ass believes that	naged. Sources ys, news and oth mpany feedback vality & peer review or of financial man future risk-ading features with rolling quarter atings aim to not stry leaders an 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 0.000-1.428 esses the deg a company in	to be reviewed include confer media, NGO reports/web, & ESG controversies, issuedews. Bustainable companies to wer the long term. The nateriality including inform dijusted performance. Math higher materiality and rly basis. measure a company's materiality and di laggards according to Leader: Average: Laggard: ree to which companies	porate publications and battes, multi-sector r feedback on draft ESG what are better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in materiality is a mixed or unexceptional industry peers lagging its industry base is take into account ESG of the its business model and	NEGL 0-10 The total ESG s scores using m and 100 with hi relevant ESG risk sks and how well anaging the most si al track record of mand on its high expositions of the distribution of th	Low 10-20 core is calcul ateriality-base gher scores in as and opport they manage gnificant ESG ris anaging the mos ure and failure to	Medium 20-30 atted as a weight d weights. The s dicating better production unities. It uses a those risks relation ts significant ESG ris manage significant	High 30-40 ed sum of the core is scaled erformance. rules-based r ive to peers. es sks and opportu tt ESG risks	40+ I features I between 0 Inethodology to Inities relative to I policies. It					
MSCI Moody's ESG solutions Refinitiv ESG	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG r. identify industident in the market of the market of the principle helps explair over-weighting weights on a MSCI ESG r. identify industional market of the market over the market of	naged. Sources gs, news and oth mpany feedback uality & peer revi ore identifies s o outperform or of financial man future risk-ading features wit rrolling quarter atings aim to n stry leaders an 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 0.000-1.428 esses the deg a company in inable value fo transparently a	to be reviewed include conter media, NGO reports/web. (x, ESG controversies, issue) ews. Sustainable companies to over the long term. The nateriality including information of the long term. The nateriality including information of the long term. It was a company's many and laggards according to the long term. Average: Laggard: Tree to which companies the grating ESG factors in or shareholders over the land objectively measure and contents.	porate publications and battes, multi-sector r feedback on draft ESG what are better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in materiality is applied by their exposure to ESG rise leading its industry in materiality in materiality is a mixed or unexceptions industry peers lagging its industry base is take into account ESG of the into its business model and a medium to long term.	NEGL 0-10 The total ESG s scores using m and 100 with hi relevant ESG risks and how well anaging the most si all track record of mand on its high expossojectives in the differentiatively outper	Low 10-20 core is calcul ateriality-base gher scores in as and opportute they manage gnificant ESG ris ure and failure to effinition and ir forming its pe	Medium 20-30 atted as a weight d weights. The s dicating better po- unities. It uses a a those risks relation sks and opportunities t significant ESG ris o manage significan mplementation of ers is better posi nd effectiveness	High 30-40 ed sum of the core is scaled erformance. rules-based r ive to peers. es sks and opportu it ESG risks f their strategy itioned to miti- across 10 ma	teatures dibetween 0 dibetween					
MSCI Moody's ESG solutions	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA AA BBB BB CCC Moody's ass believes that create sustain	naged. Sources ys, news and oth mpany feedback vality & peer review or either the control of financial man future risk-ading features with rolling quarter atings aim to not peed to be control of financial man future risk-ading features with rolling quarter atings aim to not peed to be control of financial man future risk-ading features with rolling quarter atings aim to not peed to be control of financial man for the control	to be reviewed include conter media, NGO reports/web. (a, ESG controversies, issue) ews. Installable companies to the long term. The nateriality including information of the long term. The nateriality including information of the long term. The nateriality and the long term. The nateriality and the long term and light performance. Mathodology in the long term and laggards according to the long term of term of the long term o	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG risched and a mixed or unexceptional industry peers lagging its industry base is take into account ESG of the into its business model and medium to long term.	NEGL 0-10 The total ESG s scores using mand 100 with hi relevant ESG risk sks and how well anaging the most si al track record of mand on its high expose opjectives in the definition of the relatively outper the sky of the relative the sky of the sky o	Low 10-20 core is calcul atteriality-base gher scores in as and opport they manage gnificant ESG ris ure and failure to efinition and ir forming its pe	Medium 20-30 ated as a weight d weights. The s dicating better po- unities. It uses a s those risks relation sks and opportunities t significant ESG ris o manage significan mplementation of ers is better posi and effectiveness ce and insufficier	High 30-40 ed sum of the core is scaled erformance. rules-based r ve to peers. ss sks and opportu It ESG risks t their strategy titioned to miti across 10 ma nt degree of t	teatures dibetween 0 dibetween					
MSCI Moody's ESG solutions Refinitiv ESG rating	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA AA BBB BB CCC Moody's ass believes that create sustain Designed to based on pur reporting mare reporting m	naged. Sources ys, news and oth mpany feedback vality & peer review or eidentifies so outperform of offinancial man future risk-ading features with rolling quarter atings aim to notry leaders an 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 0.000-1.428 esses the deg a company in inable value for transparently ablicly available terial ESG dat	to be reviewed include conter media, NGO reports/web. (x, ESG controversies, issue) ews. The state of the long term. The nateriality including informateriality including informateriality and rily basis. The state of the long term. The nateriality and rily basis. The state of the long term. The nateriality and rily basis. The state of the long term. The nateriality and rily basis. The state of the long term and laggards according to the long term and laggards. The state of the long term and laggards. The state of the long term and laggards according to the long term and laggards. The state of the long term and laggards according to the long term and laggards. The state of the long term and laggards according to the long term and laggards. The state of the long term and laggards according to the long term and laggards. The state of the long term and laggards according to the long term and laggards. The state of the long term and laggards according to the long term and laggards. The state of the long term and laggards according to the long term and laggards according to the long term and laggards. The state of the long term and laggards according to the long term and laggards according to the long term and laggards. The state of the long term and laggards according to the long term and laggards according to the long term and laggards. The state of the long term and laggards according to the long term and laggards according term	porate publications and battes, multi-sector r feedback on draft ESG with the tare better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in materiality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in materiality peers lagging its industry base as take into account ESG of the into its business model and a medium to long term. The eacompany's relative ESG is a company's re	NEGL 0-10 The total ESG s scores using m and 100 with hi relevant ESG risks and how well anaging the most si all track record of mand on its high exposion of the control	Low 10-20 score is calcul ateriality-base gher scores in as and opport they manage gnificant ESG ris ure and failure to efinition and ir forming its pe commitment a SG performan 775 = good; and	Medium 20-30 atted as a weight d weights. The s dicating better positions of the second of the secon	High 30-40 ed sum of the core is scaled erformance. rules-based r ive to peers. es sks and opportu tt ESG risks f their strategy itioned to miti- across 10 ma nt degree of t llent.)	40+ I features I between 0 Inethodology to Inities relative to I policies. It gate risks and ain themes, ransparency in					
MSCI Moody's ESG solutions Refinitiv ESG rating	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA AA BBB BB CCC Moody's ass believes that create sustain Designed to based on pur reporting mar.	naged. Sources ys, news and oth mpany feedback vality & peer review or either the control of financial man future risk-ading features with rolling quarter atings aim to ristry leaders an 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 0.000-1.428 esses the degic a company in inable value for transparently abilicity available terial ESG dat obal ESG Score	to be reviewed include conter media, NGO reports/web. (c. ESG controversies, issue) ews. Installable companies to the long term. The nateriality including information of the long term of the long term. Installable companies the long term of t	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in materiality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in material industry peers lagging its industry base is take into account ESG of anto its business model and a medium to long term. The accompany's relative ESG of are 0 to 25 = poor; >25 to 50 = teasuring a company's perfective and the second industry peers.	NEGL 0-10 The total ESG s scores using mand 100 with his relevant ESG risk sks and how well anaging the most sit all track record of mand on its high exposiojectives in the did relatively outper G performance, (100 on relative E satisfactory; >50 to ormance on and	Low 10-20 core is calcul ateriality-base gher scores in as and opport they manage gnificant ESG ris ure and failure to efinition and ir forming its pe commitment a SG performan o 75 = good; and management	Medium 20-30 atted as a weight d weights. The s dicating better positions of the second of the secon	High 30-40 ed sum of the core is scaled erformance. rules-based r ive to peers. es sks and opportu tt ESG risks f their strategy itioned to miti- across 10 ma nt degree of t llent.)	40+ I features I between 0 Inethodology to Inities relative to I policies. It I gate risks and I pain themes, I ransparency in					
MSCI Moody's ESG solutions Refinitiv ESG rating S&P Global	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG r. identify industrial AAA AABBB BB CCC Moody's ass believes that create sustain Designed to based on pur reporting marting for the marting and the same properties.	naged. Sources ys, news and oth mpany feedback vality & peer review or either the control of financial man future risk-ading features with rolling quarter atings aim to ristry leaders an 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 0.000-1.428 esses the degic a company in inable value for transparently abilicity available terial ESG dat obal ESG Score	to be reviewed include conter media, NGO reports/web. A, ESG controversies, issuedews. The long term. The nateriality including information of the long term. The nateriality and rily basis. The long term and long to the long term of term of the long term of th	porate publications and battes, multi-sector r feedback on draft ESG what are better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in materiality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in materiality peers lagging its industry base is take into account ESG of the into its business model and a medium to long term. The ear company's relative ESG reasons are 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = 25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = 25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = 25 to 50 =	NEGL 0-10 The total ESG s scores using m and 100 with hi relevant ESG risk sand how well anaging the most si all track record of mand on its high exposiojectives in the did relatively outper G performance, c 100 on relative E satisfactory; >50 to the primance on and ges from 0 to 100	Low 10-20 core is calcul ateriality-base gher scores in as and opport they manage gnificant ESG ris ure and failure to efinition and in forming its pe commitment a SG performan o 75 = good; and management	Medium 20-30 ated as a weight d weights. The s dicating better positive series as a series of the series and opportunities t significant ESG ris o manage significan mplementation of the significant errors is better positive series and insufficient at 1575 to 100 = except of ESG risks, oppositive significant except series and insufficient at 1575 to 100 = except ex	High 30-40 ed sum of the core is scaled erformance. rules-based r ve to peers. ss sks and opportu it ESG risks f their strategy itioned to miti across 10 ma nt degree of t flent.) portunities, ar	40+ I features I between 0 Inethodology to Inities relative to I policies. It gate risks and ain themes, ransparency in aid impacts					
MSCI Moody's ESG solutions Refinitiv ESG rating S&P Global	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA AA BBB BB CCC Moody's ass believes that create sustain Designed to based on pur reporting mar.	naged. Sources ys, news and oth mpany feedback vality & peer review or either the control of financial man future risk-ading features with rolling quarter atings aim to ristry leaders an 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 0.000-1.428 esses the degic a company in inable value for transparently abilicity available terial ESG dat obal ESG Score	to be reviewed include conter media, NGO reports/web. A, ESG controversies, issuedews. Tustainable companies to the long term. The nateriality including information of the long term of the long term. The nateriality and the long term of the lon	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG risched leading its industry in materiality is applied by direbalancing these management of financially in their exposure to ESG risched leading its industry in material material industry peers lagging its industry base is take into account ESG of the into its business model and a medium to long term. The ear company's relative ESG are 0 to 25 = poor; >25 to 50 = the sasuring a company's perfection. The score ranguating the company's aggri	NEGL 0-10 The total ESG s scores using mand 100 with his relevant ESG risk sks and how well anaging the most sit all track record of mand on its high exposiojectives in the did relatively outper G performance, and on relative E satisfactory; >50 to the formance on and ges from 0 to 100 regated Environm	Low 10-20 core is calcul ateriality-base gher scores in as and opport they manage gnificant ESG ris are and failure to efinition and ir forming its pe commitment a SG performan o 75 = good; and management ental, Social	Medium 20-30 ated as a weight d weights. The s dicating better positions and opportunities t significant ESG ris manage significan mplementation of ters is better positions and effectiveness ce and insufficient at >75 to 100 = exce of ESG risks, oppositions and Governance	High 30-40 ed sum of the core is scaled erformance. rules-based r ve to peers. ss sks and opportu It ESG risks it their strategy titioned to miti across 10 ma nt degree of t llent.) portunities, ar (ESG) perfor	40+ I features I between 0 Inethodology to Inities relative to I policies. It gate risks and ain themes, ransparency in aid impacts I mance. The					
MSCI Moody's ESG solutions Refinitiv ESG rating	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG r. identify industrial AAA AABBB BB CCC Moody's ass believes that create sustain Designed to based on pur reporting marting for the marting and the same properties.	naged. Sources ys, news and oth mpany feedback vality & peer review or either the control of financial man future risk-ading features with rolling quarter atings aim to ristry leaders an 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 0.000-1.428 esses the degic a company in inable value for transparently abilicity available terial ESG dat obal ESG Score	to be reviewed include conter media, NGO reports/web. (**, ESG controversies, issue) ews. Bustainable companies tiver the long term. The nateriality including inform dijusted performance. Math higher materiality and rly basis. Bustainable companies tiver the long term. The nateriality including inform dijusted performance. Math higher materiality and rly basis. Ladder: Average: Laggard: Laggard: ree to which companies tegrating ESG factors in or shareholders over the and objectively measure and auditable data. The apublicly. (Score ratings) re is a relative score me in the same industry cla Bloomberg score evalus score is based on Bloomberg score evalus score is based on Bloomberg score evalus score is savent and score is sav	porate publications and battes, multi-sector r feedback on draft ESG what are better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in materiality is applied by direbalancing these management of financially in their exposure to ESG rise leading its industry in materiality peers lagging its industry base is take into account ESG of the into its business model and a medium to long term. The ear company's relative ESG reasons are 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = poor; >25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = 25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = 25 to 50 = 25 assuring a company's perfects in the score ranges from 0 to 25 = 25 to 50 =	NEGL 0-10 The total ESG is scores using m and 100 with his relevant ESG risk sks and how well anaging the most sit all track record of mand on its high exposion of the state	Low 10-20 core is calcul ateriality-base ther scores in as and opportute they manage gnificant ESG ris are and failure to efinition and ir forming its pe commitment a SG performan 775 = good; and management the score is a	Medium 20-30 ated as a weight d weights. The s dicating better positions of the second	High 30-40 ed sum of the core is scaled erformance. rules-based n ive to peers. es sks and opportu at ESG risks f their strategy titioned to miti across 10 ma nt degree of t flent.) portunities, ar	40+ I features I between 0 Inethodology to Inethodology to Inities relative to I policies. It gate risks and ain themes, ransparency in and impacts Imance. The (power mean)					
Moody's ESG solutions Refinitiv ESG rating S&P Global	risk is unmar regulatory filling information, coreports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG r. identify industrial AAA AABBB BB CCC Moody's ass believes that create sustain Designed to based on pur reporting marting for the marting and the same properties.	naged. Sources as, news and oth mpany feedback vality & peer review of financial man future risk-ading features with rolling quarter atings aim to not stry leaders an 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285 0.000-1.428 esses the degrade at a company in inable value for transparently a blicly available terial ESG dat obal ESG Scorits peers within	to be reviewed include conter media, NGO reports/web. (c. ESG controversies, issue) ews. Installable companies to the long term. The nateriality including informateriality including informateriality and the higher materiality and the higher materiality and the higher materiality and the higher materiality and the long term. The nateriality and the long terms are company's material the long terms are to a company's material the long terms are to which companies the long terms are t	porate publications and battes, multi-sector r feedback on draft ESG that are better methodology considers mation that significantly ateriality is applied by direbalancing these management of financially in their exposure to ESG ris leading its industry in maximum a mixed or unexceptional industry peers lagging its industry base is take into account ESG of the into its business model and the medium to long term. In a mixed or unexceptional industry peers lagging its industry base is take into account ESG of the into its business model and the medium to long term. In a company's relative ES in a company's relative ES in a company's perfects in a company's perfects in a company's aggroupperg's view of ESG final	NEGL 0-10 The total ESG s scores using mand 100 with his relevant ESG risk sand how well anaging the most signal track record of mand on its high expose opjectives in the did relatively outper a suisfactory; >50 to the promance on and the state of the	Low 10-20 core is calcul acteriality-base gher scores in as and opport they manage gnificant ESG ris are and failure to efinition and ir forming its pe commitment a SG performan o 75 = good; and management anagement the score is a iority ranking.	Medium 20-30 ated as a weighted development of the second	High 30-40 ed sum of the core is scaled erformance. rules-based in ve to peers. ss sks and opportu It ESG risks their strategy titioned to miti across 10 ma int degree of t llent.) portunities, ar (ESG) perfor alized mean om 0 to 10; 10	dotative to relative to policies. It gate risks and ain themes, ransparency in the dimpacts relative to the foliation of the					

Rating regarding the sustainable development of Thai listed companies, both on the SET and MAI, are publicly available on the website of the Securities and Exchange Commission of Thailand (SEC). Currently, ratings available are 1) "CG Score"; 2) "AGM Level"; 3) "Thai CAC"; and 4) THSI. The ratings are updated on an annual basis. FSSIA does not confirm nor certify the accuracy of such ratings.

Source: FSSIA's compilation

GENERAL DISCLAIMER

ANALYST(S) CERTIFICATION

Usanee Liurut, CISA FSS International Investment Advisory Securities Co., Ltd

The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s) was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed herein.

This report has been prepared by FSS International Investment Advisory Securities Company Limited (FSSIA). The information herein has been obtained from sources believed to be reliable and accurate; however FSSIA makes no representation as to the accuracy and completeness of such information. Information and opinions expressed herein are subject to change without notice. FSSIA has no intention to solicit investors to buy or sell any security in this report. In addition, FSSIA does not guarantee returns nor price of the securities described in the report nor accept any liability for any loss or damage of any kind arising out of the use of such information or opinions in this report. Investors should study this report carefully in making investment decisions. All rights are reserved.

This report may not be reproduced, distributed or published by any person in any manner for any purpose without permission of FSSIA. Investment in securities has risks. Investors are advised to consider carefully before making investment decisions.

Company	Ticker	Price	Rating	Valuation & Risks
Bangkok Bank	BBL TB	THB 138.50	BUY	Downside risks to our GGM-based TP are 1) prolonged economic sluggishness affecting loan growth and asset quality; and 2) the impact of new regulations from the Bank of Thailand.
Krung Thai Bank	КТВ ТВ	THB 16.80	BUY	Downside risks to our GGM-based TP are 1) prolonged economic sluggishness affecting loan growth and asset quality; and 2) the impact of new regulations from the Bank of Thailand.
Kiatnakin Bank	ККР ТВ	THB 51.25	HOLD	Downside risks to our GGM-based target price include weakening asset quality and lower fee income and upside risks include better capital market conditions, higher used car prices, and strengthening asset quality.
Tisco Financial	TISCO TB	THB 99.25	HOLD	Downside risks to our GGM-based TP are 1) prolonged economic sluggishness affecting loan growth and asset quality; and 2) the impact of new regulations from the Bank of Thailand. Upside risks are 1) aggressive loan growth; and 2) well-controlled asset quality.
Kasikornbank	KBANK TB	THB 122.00	HOLD	Downside risks to our GGM-based TP are 1) prolonged economic sluggishness affecting loan growth and asset quality; and 2) the impact of new regulations from the Bank of Thailand. Upside risks are 1) government stimulus projects leading to economic recovery; and 2) the rising NIM from well-controlled cost of funds.
SCB X	SCB TB	THB 114.50	BUY	Downside risks to our GGM-based TP are 1) prolonged economic sluggishness affecting loan growth and asset quality; and 2) the impact of new regulations from the Bank of Thailand.
TMBThanachart Bank	ТТВ ТВ	THB 1.84	BUY	Downside risks to our GGM-based TP are 1) prolonged economic sluggishness affecting loan growth and asset quality; and 2) the impact of new regulations from the Bank of Thailand.

Source: FSSIA estimates

Additional Disclosures

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finansia Syrus Securities Public Company Limited.

All share prices are as at market close on 25-Mar-2024 unless otherwise stated.

RECOMMENDATION STRUCTURE

Stock ratings

Stock ratings are based on absolute upside or downside, which we define as (target price* - current price) / current price.

BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

Industry Recommendations

Overweight. The analyst expects the fundamental conditions of the sector to be positive over the next 12 months. **Neutral.** The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months.

Underweight. The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

Country (Strategy) Recommendations

Overweight (O). Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Neutral (N). Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

Underweight (U). Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.