**EQUITY RESEARCH - COMPANY REPORT** 

# DELTA ELECTRONICS

# **DELTA TB**





THAILAND / ELECTRONIC COMPONENT

# ยังมีความเสี่ยงรออยู่ข้างหน้า

- คาดว่ากำไรปกติ 1Q25 จะโต y-y จากความต้องการ AI ที่อยู่ในเกณฑ์ดี
- แม้ว่าคำสั่งซื้อจะเร่งตัวขึ้นในระยะสั้นหลังทรัมป์ชะลอการขึ้นภาษีนำเข้าเป็นเวลา 90 วัน หุ้นยังมีความเสี่ยงหลายประการรออยู่ข้างหน้า
- ปรับลดค่า P/E เป้าหมายเป็น 35x (-0.5 SD) และคงคำแนะนำ REDUCE

#### AI น่าจะดีต่อเนื่องใน 1Q25

เราคาดกำไรสุทธิ 1Q25 อยู่ที่ 4.2พัน ลบ. (+97% q-q, -2% y-y) เมื่อหักรายการพิเศษใน 4Q24 กำไรปกติน่าจะทรงตั้ว q-q และสูงขึ้น 11.5% y-y ตัวเลขที่โตขึ้น y-y น่าจะเกิดจากผล ประกอบการที่ดีของกลุ่ม AI เป็นหลักแม้ว่าแนวโน้มเศรษฐกิจโลกจะอ่อนแอ นอกจากนี้อุปทาน ยังมีจำกัดในขณะที่ความต้องการของลูกค้ามีสูงต่อเนื่อง ในขณะที่กลุ่ม EV ยังไม่ฟื้นตัว ใกล้เคียงกับแนวโน้มอุตสาหกรรม ทั้งนี้เราคาดว่ารายได้รวมใน 1Q2่5 จะสูงขึ้น 3% q-q และ 13% y-y ในขณะที่อัต<sup>ร</sup>ากำไรขั้นต้นน่าจะสูงขึ้นเป็น 25% (เทียบกับ 24.9<sup>%</sup> ใน 4Q24 และ 21% ใน 1Q24) ใกล้เคียงกับเป้าหมายของ DELTA ที่คาดว่ารายได้จะโต 10-15% และอัตรา กำไรขั้นต้นจะอยู่ที่ 25%

# ้ค่าธรรมเนียมทางกฎหมายน่าจะมีต่อเนื่องแต่น่าจะลดลง q-q

ค่าใช้จ่ายพิเศษที่มีนัยสำคัญใน 4Q24 ได้หมดไปแล้วในขณะที่ค่าธรรมเนียมทางกฎหมายน่าจะ ลดลง ในขณะเดียวกันค่าธรรมเนียมที่จ่ายให้แก่ Delta Taiwan น่าจะยังทรงตัวในขณะที่รายได้ จากธุรกิจ AI น่าจะเพิ่มสูงขึ้นใน 1Q25 โดยได้ปัจจัยผลักดันสินค้าที่ DELTA พัฒนาเป็นการ ภายใน ดังนั้นเราจึงคาดว่าสัดส่วนค่าใช้จ่ายการขายและบริหารต่อยอดขายจะลดลงเหลือ 14% จาก 14.8% ใน 4Q24 อย่างไรก็ดีตัวเลขน่าจะยังสูงกว่าใน 1Q24 จากค่าธรรมเนียมทาง กฎหมายที่มีอย่างต่อเนื่องในขณะที่คดียังไม่ถึงที่สุด ปัจจุบัน DELTA กำลังเจรจากับ Delta Taiwan ในส่วนของค่าธรรมเนียมทางกฎหมาย (1่พัน aบ. ใน 4Q24) อย่างไรก็ดีบริษัทฯ มี ความเสี่ยงสำคัญที่ต้องจับตาดูอยู่ที่คำตัดสินของศาลและความเสียหายที่อาจเกิดขึ้นถ้าแพ้คดี

# กำลังการผลิต AI ใหม่จะเริ่มใน 3Q25

เราคาดว่ากำไร 2Q25 จะพื้นตัวต่อเนื่องจากความต้องการสินค้า AI ที่อยู่ในเกณฑ์ดีพร้อม สัญญาณการเร่งคำสั่งซื้อของลูกค้าหลังทรัมป์ชะลอการขึ้นภาษีนำเข้าออ<sup>ั</sup>กไปอีก 90 วัน DELTA กำลังขยายกำลังการผลิตเพื่อให้ทันต่อความต้องการ AI พร้อมคาดว่ารายได้จากธุรกิจ Al จะเร่งตัวขึ้นต่อเนื่องในช่วง 2H25 เมื่อโรงงานใหม่ที่นิคมอุตสาหกรรมเวลโกรว์แล้วเสร็จและ เริ่มดำเนินงานเชิงพาณิชย์ใน 3Q25 ทั้งนี้ Delta Taiwan กำลังเตรียมส่งคำสั่งซื้อให้แก่โรงงาน ใหม่ได้ในทันที

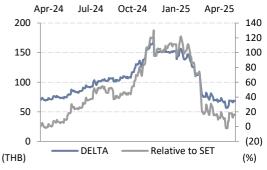
# ปรับลด Valuation จากความเสี่ยงที่สูงขึ้นในอนาคต

แม้ว่าเราจะคงประมาณการกำไรปี 2025 ของเราและหุ้นมีปัจจัยหนุนในระยะสั้นจากการเร่งซื้อ ศูนย์ข้อมูลของลูกค้า เราปรับลดค่า P/E เป้าหมายเป็น 35x (-0.5 SD) จาก 45x จากความ ู้เสี่ยงที่เพิ่มขึ้นประกอบด้วย 1) คดีที่ยังไม่ผลสรุปพร้อมความเสียหายที่ยังไม่แน่นอน 2) รายได้ จากธุรกิจ EV ที่อาจอ่อนแอกว่าคาดและ 3) ผลกระทบจากภาษีนำเข้าของสหรัฐฯ หลังระยะ การชะลอ 90 วันสิ้นสุดลงเนื่องจากสินค้าของ DELTA ไม่ได้รับการยกเว้นจากภาษีดังกล่าว ้ดังนั้นเราจึงลดราคาเป้าหมายของเราเป็น 55 บาทและคงคำแนะนำ REDUCE

TARGET PRICE	THB55.00
CLOSE	THB68.00
UP/DOWNSIDE	-19.1%
PRIOR TP	THB72.00
CHANGE IN TP	-23.6%
TP vs CONSENSUS	-19.5%

#### **KEY STOCK DATA**

YE Dec (THB m)	2024	2025E	2026E	2027E
Revenue	164,733	174,556	197,705	223,283
Net profit	18,939	19,619	22,392	25,473
EPS (THB)	1.52	1.57	1.80	2.04
vs Consensus (%)	-	4.5	1.1	2.5
EBITDA	27,723	30,436	34,212	38,362
Recurring net profit	20,164	19,619	22,392	25,473
Core EPS (THB)	1.62	1.57	1.80	2.04
Chg. In EPS est. (%)	-	-	-	-
EPS growth (%)	17.2	(2.7)	14.1	13.8
Core P/E (x)	42.1	43.2	37.9	33.3
Dividend yield (%)	0.7	0.7	0.8	0.9
EV/EBITDA (x)	30.1	27.5	24.2	21.4
Price/book (x)	10.6	9.0	7.6	6.5
Net debt/Equity (%)	(17.8)	(12.4)	(16.9)	(21.0)
ROE (%)	27.3	22.5	21.8	21.1



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	(1.4)	(52.3)	(1.8)
Relative to country (%)	3.1	(43.1)	15.3
Mkt cap (USD m)			25,624
3m avg. daily turnover (USD m)			61.4
Free float (%)			0

Major shareholder Delta Electronics International (Singapore) Pte

12m high/low (THB)	173.50/51.25
Issued shares (m)	12,473.82

Sources: Bloomberg consensus; FSSIA estimates



#### Sureeporn Teewasuwet

Fundamental Investment Analyst on Securities; License no. 040694

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 a more cautious outlook on the growth trend in 2025 after seeing signs of a slowdown in the EV segment. DELTA has revised down its EV growth target to single-digit growth in 2025, while the data center segment is expected to grow by 10% y-y, and the AI segment is likely to continue its strong growth.

In addition, the rising fees paid to Delta Taiwan have grown faster than revenue, with the likelihood of further increases after the fee adjustment in 4Q24. DELTA guided that its new rate for non-Al products would increase to 10% of revenue. while Al products are being charged at a rate higher than 10%. Aside from that, DELTA will face a higher GMT tax rate at 15% starting in 1Q25, compared to 2.4% in 2024.

### Company profile

DELTA is an electronics manufacturer and exporter of power supplies and electronic components comprising cooling fans, EMI filters, and solenoids. Key power management products consist of switching power supplies, EV chargers, DC-DC converters, and solar inverters. Its operations cover regions such as Asia, Europe, and South America. In 2024, its revenue contribution came mainly from power electronics at 54.3%, with mobility/infrastructure/automation at 27.2%/15.9%/2.6%, respectively.

www.deltathailand.com

## Principal activities (revenue, 2024)

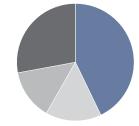
- Power electronics 54.3 %
- Mobility 27.2 %
- Infrastructure 15.9 %
- Automation 2.6 %



Source: Delta Electronics

## Major shareholders

- Delta Electronics International (Singapore) Pte Ltd - 42.9 %
- Delta International Holding Limited - 15.4 %
- Delta Electronics Inc. 13.9 %
- Others 27.9 %



Source: Delta Electronics

# **Catalysts**

Potential catalysts for DELTA's earnings growth in 2025 are 1) purchase order growth from EV power supporting a capacity expansion; 2) a recovery in data centers and fans; 3) lower raw material costs and an absence of inventory provisions; and 4) successful market expansion.

#### Risks to our call

Upside risks to our P/E-based TP include 1) higher-thanexpected global EV sales growth; 2) a sooner-than-expected decrease in raw material costs; and 3) a weaker-thanexpected THB.

#### Event calendar

Date	Event
25 April 2025	1Q25 results announcement
28 April 2025	1Q25 analyst meeting

# Key assumptions

	2025E	2026E	2027E
Power electronics (USD m)	3,004	3,505	4,031
Mobility (USD m)	1,348	1,456	1,601
Infrastructure (USD m)	804	883	972
Automation (USD m)	131	144	158
Total revenue (USD m)	5,290	5,991	6,766
Gross margin (%)	25.4	25.5	25.6

Source: FSSIA estimates

#### **Earnings sensitivity**

- For every 1% increase in USD revenue, we estimate 2025 net profit to rise by 0.9%, and vice versa, all else being equal.
- For every THB1/USD increase, we estimate 2025 net profit to fall by 6.5%, and vice versa, all else being equal.
- For every 0.5% increase in GPM, we estimate 2025 net profit to rise by 3.4%, and vice versa, all else being equal.
- For every 0.2% increase in SG&A, we estimate 2025 net profit to fall by 1.8%, and vice versa, all else being equal.

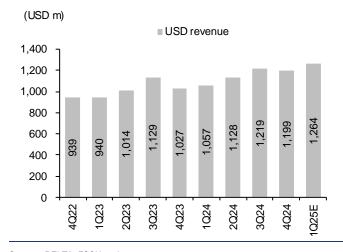
Source: FSSIA estimates

Exhibit 1: DELTA – 1Q25 earnings preview

	1Q24	2Q24	3Q24	4Q24	1Q25E	Cha	inge	2024	2025E	Change	% 1Q25E
	(THB m)	(q-q%)	(y-y%)	(THB m)	(THB m)	(y-y%)	to 2025E				
Sales	37,989	41,772	43,225	41,747	42,927	2.8	13.0	164,733	174,556	6.0	24.6
Cost of sales	30,017	30,550	31,298	31,368	32,195	2.6	7.3	123,233	130,219	5.7	24.7
Gross profit	7,972	11,222	11,927	10,379	10,732	3.4	34.6	41,500	44,337	6.8	24.2
SG&A	4,252	5,403	5,938	6,160	6,010	(2.4)	41.4	21,753	22,518	3.5	26.7
Operating profit	3,720	5,819	5,989	4,219	4,722	11.9	26.9	19,747	21,820	10.5	21.6
Interest expense	34	22	29	81	80	(1.4)	133.1	167	117	(30.2)	68.6
Tax expense	113	153	139	249	748	200.6	563.3	654	3,462	429.4	21.6
Other gain (Loss)	507	631	(285)	(2078)	0	nm	nm	(1225)	0	nm	nm
Reported net profit	4,308	6,565	5,911	2,155	4,238	96.6	(1.6)	18,939	19,619	3.6	21.6
Core profit	3,801	5,934	6,196	4,233	4,238	0.1	11.5	20,164	19,619	(2.7)	21.6
Key Ratios (%)						(ppt)	(ppt)			(ppt)	(ppt)
Gross margin (adjusted)	21.0	26.9	27.6	24.9	25.0	0.1	4.0	25.2	25.4	0.2	
SG&A to sales (adjusted)	11.2	12.9	13.7	14.8	14.0	(0.8)	2.8	13.2	12.9	(0.3)	
Operating margin	9.8	13.9	13.9	10.1	11.0	0.9	1.2	12.0	12.5	0.5	
Net margin	11.3	15.7	13.7	5.2	9.9	4.7	(1.5)	11.5	11.2	(0.3)	
Core margin	10.0	14.2	14.3	10.1	9.9	(0.3)	(0.1)	12.2	11.2	(1.0)	
Operating Statistics											
THB total revenue (THB m)	37,989	41,772	43,225	41,747	42,927	2.8	13.0	164,733	174,556	6.0	74.7
USD total revenue (USD m)	1,057	1,128	1,219	1,199	1,264	5.5	19.6	4,604	5,290	14.9	73.9

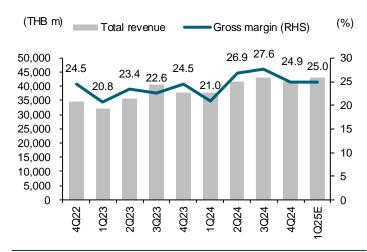
Sources: DELTA, FSSIA estimates

**Exhibit 2: Quarterly USD revenue** 



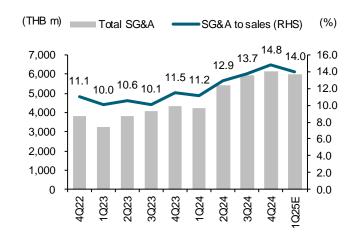
Sources: DELTA, FSSIA estimates

Exhibit 3: Quarterly THB revenue and gross margin



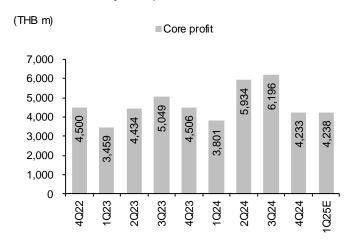
Sources: DELTA, FSSIA estimates

### **Exhibit 4: Quarterly SG&A expenses**



Sources: DELTA, FSSIA estimates

**Exhibit 6: Quarterly core profit** 



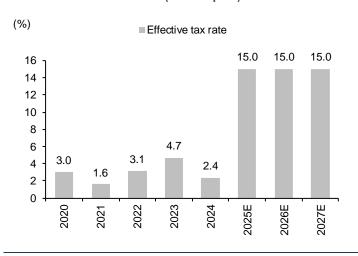
Sources: DELTA, FSSIA estimates

Exhibit 8: Yearly USD revenue and growth



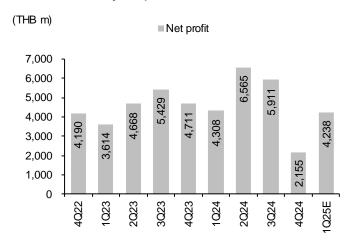
Sources: DELTA, FSSIA estimates

**Exhibit 5: Effective tax rate (GMT impact)** 



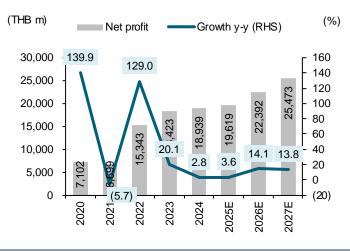
Sources: DELTA, FSSIA estimates

**Exhibit 7: Quarterly net profit** 



Sources: DELTA, FSSIA estimates

Exhibit 9: Yearly net profit and gross margin



Sources: DELTA, FSSIA estimates

Exhibit 10: Peers comparison as of 21 April 2025

Company	BBG	Rec	S	hare price	;	Market	Market PE		ROE		PBV		- EV/EBITDA -	
			Current	Target	Upside	Сар	25E	26E	25E	26E	25E	26E	25E	26E
			(LCY)	(LCY)	(%)	(USD m)	(x)	(x)	(%)	(%)	(x)	(x)	(x)	(x)
Thailand														
Delta Electronics (Thailand)*	DELTA TB	REDUCE	68.00	55.00	(19)	25,624	43.2	37.9	22.5	21.8	9.0	7.6	27.5	24.2
KCE Electronics*	KCE TB	HOLD	16.70	25.00	50	596	11.8	9.8	12.0	13.9	1.4	1.3	6.7	6.0
Hana Microelectronics*	HANA TB	HOLD	18.00	18.00	-	481	14.8	12.9	3.9	4.5	0.6	0.6	1.9	1.7
SVI	SVI TB	n/a	7.80	n/a	n/a	503	13.6	12.7	15.6	15.1	2.0	1.8	10.2	9.6
Cal-Comp Electronics	CCET TB	n/a	5.20	n/a	n/a	1,670	16.9	15.0	12.0	13.0	2.0	1.9	9.01	8.19
Thailand average						28,875	20.1	17.7	13.2	13.7	3.0	2.7	11.1	9.9
Regional														
Delta Electronics (Taiwan)	2308 TT	n/a	310.00	n/a	n/a	24,786	17.3	14.7	18.0	18.7	3.1	2.8	9.3	8.1
China Leadshine Technology	002979 CH	n/a	42.76	n/a	n/a	1,793	46.8	37.6	17.6	20.2	8.5	7.8	40.3	32.6
Suplet Power	300593 CH	n/a	13.54	n/a	n/a	1,004	39.8	25.1	n/a	n/a	2.5	2.3	27.1	18.2
Polycab India	POLYCAB IN	n/a	5,412.50	n/a	n/a	9,725	43.2	35.6	21.2	22.0	8.6	7.2	29.0	24.2
Qingdao Yunlu Advanced	688190 CH	n/a	93.85	n/a	n/a	1,540	26.1	22.4	15.3	15.6	3.95	3.47	20.26	17.57
TDG Holdings	600330 CH	n/a	6.43	n/a	n/a	1,084	26.8	21.4	3.5	4.1	0.9	0.9	11.2	9.4
Shenzhen Megmeet Electrical	002851 CH	n/a	46.25	n/a	n/a	3,450	28.9	22.5	14.9	16.8	4.3	3.7	25.7	20.5
Nexans	NEX FP	n/a	87.50	n/a	n/a	4,288	11.7	10.4	16.6	16.5	1.8	1.6	5.5	5.1
Furukawa Electric	5801 JP	n/a	4,040.00	n/a	n/a	2,034	9.9	8.8	8.8	9.3	8.0	0.8	7.3	6.9
Regional average						49,704	27.8	22.0	14.5	15.4	3.8	3.4	19.5	15.8
Global														
Nvidia	NVDA US	n/a	96.91	n/a	n/a	2,364,604	33.4	21.8	100.8	83.0	26.1	13.9	26.6	18.0
Advanced Micro Devices	AMD US	n/a	85.56	n/a	n/a	139,004	19.0	14.2	9.1	12.0	2.4	2.3	18.3	13.6
Apple	AAPL US	n/a	193.16	n/a	n/a	2,901,664	26.6	24.2	178.3	196.5	41.8	31.8	20.3	18.8
Microsoft	MSFT US	n/a	359.12	n/a	n/a	2,669,692	27.3	23.9	31.0	28.3	7.9	6.3	17.6	15.3
Meta Platforms	META US	n/a	484.66	n/a	n/a	1,223,500	18.6	16.2	30.5	26.7	5.2	4.1	11.5	9.7
Global average						9,298,463	25.0	20.1	69.9	69.3	16.7	11.7	18.9	15.1
Overall average						9,377,042	25.0	20.4	29.5	29.9	7.0	5.4	17.1	14.1

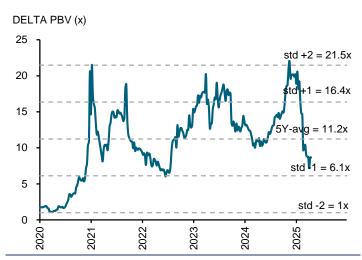
Sources: Bloomberg; FSSIA estimates

Exhibit 11: Historical P/E band



Sources: Bloomberg; FSSIA estimates

Exhibit 12: Historical P/BV band



Sources: Bloomberg; FSSIA estimates

# **Financial Statements**

**Delta Electronics** 

Profit and Loss (THB m) Year Ending Dec	2023	2024	2025E	2026E	2027E
Revenue	146,371	164,733	174,556	197,705	223,283
Cost of goods sold	(112,881)	(123,233)	(130,219)	(147,290)	(166,123)
Gross profit	33,491	41,500	44,337	50,415	57,160
Other operating income	758	1,260	1,396	1,582	1,786
Operating costs	(15,865)	(21,775)	(22,536)	(25,523)	(28,823)
Operating EBITDA	22,992	27,723	30,436	34,212	38,362
Depreciation	(4,608)	(6,738)	(7,238)	(7,738)	(8,238)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	18,384	20,985	23,197	26,473	30,124
Net financing costs	(109)	(167)	(117)	(130)	(155)
Associates	0	0	, ,	0	0
Recurring non-operating income	0	0	0	0	0
Non-recurring items	1,221	(1,225)	0	0	0
Profit before tax	19,496	19,593	23,081	26,343	29,969
Tax	(1,073)	(654)	(3,462)	(3,952)	(4,495)
Profit after tax	18,423	18,939	19,619	22,392	25,473
Minority interests	0	0	0	0	0
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
Reported net profit	18,423	18,939	19,619	22,392	25,473
Non-recurring items & goodwill (net)	(1,221)	1,225	0	0	0
Recurring net profit	17,201	20,164	19,619	22,392	25,473
Per share (THB)	,		10,010	,	20,0
Recurring EPS *	1.38	1.62	1.57	1.80	2.04
Reported EPS	1.48	1.52	1.57	1.80	2.04
DPS	0.45	0.46	0.47	0.54	0.61
Diluted shares (used to calculate per share data)	12,474	12,474	12,474	12,474	12,474
Growth	,	,	,	,	,
Revenue (%)	23.5	12.5	6.0	13.3	12.9
Operating EBITDA (%)	26.1	20.6	9.8	12.4	12.1
Operating EBIT (%)	22.1	14.1	10.5	14.1	13.8
Recurring EPS (%)	18.1	17.2	(2.7)	14.1	13.8
Reported EPS (%)	20.1	2.8	3.6	14.1	13.8
Operating performance					
Gross margin inc. depreciation (%)	22.9	25.2	25.4	25.5	25.6
Gross margin exc. depreciation (%)	26.0	29.3	29.5	29.4	29.3
Operating EBITDA margin (%)	15.7	16.8	17.4	17.3	17.2
Operating EBIT margin (%)	12.6	12.7	13.3	13.4	13.5
Net margin (%)	11.8	12.2	11.2	11.3	11.4
Effective tax rate (%)	5.5	3.3	15.0	15.0	15.0
Dividend payout on recurring profit (%)	32.6	28.5	30.0	30.0	30.0
Interest cover (X)	168.1	125.7	199.0	203.6	194.3
Inventory days	97.4	101.0	97.3	97.1	101.9
Debtor days	76.5	73.3	97.3 74.4	75.3	75.4
Creditor days	76.5 105.0	73.3 106.4	100.8	75.3 89.5	75.4 89.3
	26.3	25.5	24.8	69.5 24.2	69.3 24.7
Operating ROIC (%)	25.3 25.3		23.8	23.2	24.7
ROIC (%) ROE (%)	25.3 28.1	24.6 27.3	23.8	23.2 21.8	23. <i>1</i> 21.1
					15.2
ROA (%) * Pre-exceptional, pre-goodwill and fully diluted	17.4	17.6	15.3	15.5	15.2
Revenue by Division (THB m)	2023	2024	2025E	2026E	20275
					2027E
Power electronics	78,167	89,445	99,119	115,672	133,022
Mobility	42,123	44,774	44,479	48,037	52,841
Infrastructure	22,105	26,191	26,535	29,136	32,078
Automation	3,830	4,255	4,320	4,752	5,227

Sources: Delta Electronics; FSSIA estimates

# **Financial Statements**

Delta Electronics

Recurring net profit	2023	2024	2025E	2026E	2027E
recurring their profit	17,201	20,164	19,619	22,392	25,473
Depreciation	4,608	6,738	7,238	7,738	8,238
Associates & minorities	(5.40)	(050)	-	-	-
Other non-cash items	(546)	(959) 5.406	(12.844)	0 (7.557)	(9.653)
Change in working capital  Cash flow from operations	(10,111) <b>11,152</b>	5,406 <b>31,349</b>	(12,844) <b>14,012</b>	(7,557) <b>22,573</b>	(8,653) <b>25,058</b>
Capex - maintenance	- 11,132		14,012	-	25,050
Capex - new investment	(11,633)	(14,717)	(10,000)	(10,000)	(10,000)
Net acquisitions & disposals	-	-	-	-	-
Other investments (net)	(595)	(7)	(1,053)	(347)	(384)
Cash flow from investing	(12,227)	(14,724)	(11,053)	(10,347)	(10,384)
Dividends paid	(5,188)	(5,603)	(5,886)	(6,718)	(7,642)
Equity finance	0	0	0	0	0
Debt finance	3,568	(780)	634	733	782
Other financing cash flows	(376)	(932)	758	1,000	1,000
Cash flow from financing Non-recurring cash flows	(1,996)	(7,316)	(4,493)	(4,985)	(5,860)
Other adjustments	546	0	0	0	0
Net other adjustments	546	(1,225)	Ö	0	Ö
Movement in cash	(2,525)	8,084	(1,534)	7,242	8,814
Free cash flow to firm (FCFF)	(965.85)	16,791.54	3,075.86	12,356.19	14,829.51
Free cash flow to equity (FCFE)	2,663.13	13,687.00	4,351.83	13,959.11	16,456.03
Per share (THB)					
FCFF per share	(0.08)	1.35	0.25	0.99	1.19
FCFE per share	0.21	1.10	0.35	1.12	1.32
Recurring cash flow per share	1.70	2.08	2.15	2.42	2.70
Balance Sheet (THB m) Year Ending Dec	2023	2024	2025E	2026E	2027E
Fangible fixed assets (gross)	47,866	61,044	71,044	81,044	91,044
Less: Accumulated depreciation	(17,659)	(22,858)	(30,097)	(37,835)	(46,073)
Fangible fixed assets (net)	30,207	38,186	40,947	43,209	44,971
ntangible fixed assets (net)	591	571	629	629	629
ong-term financial assets	236	186	186	186	186
nvest. in associates & subsidiaries	-	-	-	-	-
Cash & equivalents	7,617	15,701	14,167	21,409	30,223
A/C receivable	33,237	32,906	38,259	43,333	48,939
nventories	32,747	31,697	33,893	40,354	47,789
Other current assets	1,965	2,227	3,491	3,954	4,466
Current assets	75,566	82,532	89,810	109,049	131,416
Other assets Fotal assets	1,545 <b>108,145</b>	1,622 <b>123,097</b>	2,618 <b>134,190</b>	2,966 <b>156,038</b>	3,349 <b>180,550</b>
Common equity	67,539	79,942	94,433	111,108	129,939
Minorities etc.	0	0	0	0	0
Fotal shareholders' equity	67,539	79,942	94,433	111,108	129,939
Long term debt	969	1,211	1,131	1,051	971
Other long-term liabilities	3,461	3,817	3,491	3,954	4,466
ong-term liabilities	4,431	5,028	4,622	5,005	5,437
A/C payable	32,096	35,793	32,109	36,318	40,962
Short term debt	2,607	245	1,280	1,630	1,980
Other current liabilities	1,472	2,089	1,746	1,977	2,233
Current liabilities	36,176	38,127	35,134	39,925	45,175
Fotal liabilities and shareholders' equity	108,145	123,097	134,190	156,038	180,550
Net working capital nvested capital	34,380 66,959	28,949 69,514	41,788 86,168	49,345 96,334	57,999 107,133
fincludes convertibles and preferred stock which is being trea		09,514	00,100	30,334	107,133
<u> </u>					
Per share (THB)  Book value per share	5.41	6.41	7.57	9.01	10.42
Fangible book value per share	5.37	6.36	7.52	8.91 8.86	10.42
Financial strength	0.01	0.00	7.02	0.00	10.07
Net debt/equity (%)	(6.0)	(17.8)	(12.4)	(16.9)	(21.0)
Net debt/total assets (%)	(3.7)	(11.6)	(8.8)	(12.0)	(15.1)
Current ratio (x)	2.1	2.2	2.6	2.7	2.9
CF interest cover (x)	131.7	171.1	124.1	185.2	171.6
√aluation	2023	2024	2025E	2026E	2027E
	49.3	42.1	43.2	37.9	33.3
Recurring P/E (x) *	39.9	34.0	35.0	30.6	26.9
Recurring P/E (x) * Recurring P/E @ target price (x) *		44.8	43.2	37.9	33.3
Recurring P/E (x) * Recurring P/E @ target price (x) * Reported P/E (x)	46.0	44.0			
Recurring P/E @ target price (x) *	46.0 0.7	0.7	0.7	0.8	0.9
Recurring P/E @ target price (x) * Reported P/E (x)			0.7 9.0	0.8 7.6	0.9 6.5
Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%)	0.7	0.7			
Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x)	0.7 12.6	0.7 10.6	9.0	7.6	6.5
Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x)	0.7 12.6 12.7	0.7 10.6 10.7	9.0 9.0	7.6 7.7	6.5 6.6

Sources: Delta Electronics; FSSIA estimates

# **Delta Electronics Thailand (DELTA TB)**

# Exhibit 13: FSSIA ESG score implication

80.05 /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 14: ESG – peer comparison

	FSSIA	Domestic ratings						Global ratings						Bloomberg		
	ESG score	DJSI	SET ESG	SET ESG Rating	CG score	AGM level	Thai CAC	Morningstar ESG risk	ESG Book	MSCI	Moody's	Refinitiv	S&P Global	ESG score	Disclosure score	
SET100	68.42	5.72	4.39	4.54	4.76	4.43	4.02	Medium	57.06	BBB	22.81	61.26	67.56	1.22	35.11	
Coverage	66.06	4.94	4.20	4.40	4.82	4.46	3.88	Medium	54.14	BB	18.11	57.41	66.38	1.36	36.75	
DELTA	80.05	Υ	Υ	Α	5.00	4.00	Certified	Low	70.14	AA		83.69	79.00			
HANA	58.59		Υ	AA	5.00	5.00	Certified	Negligible	62.50	BBB		59.86	28.00	1.77	38.09	
KCE	52.42			Α	5.00	5.00	Certified	Medium	64.70			52.50	24.00	2.35	56.17	

Sources: <u>SETTRADE.com</u>; FSSIA's compilation

### Exhibit 15: ESG score by Bloomberg

FY ending Dec 31	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
ESG financial materiality scores - ESG score	3.63	3.92	4.13	4.06	4.24	4.03	4.21	_
BESG environmental pillar score	4.68	5.12	5.75	5.33	5.80	5.25	5.77	_
BESG social pillar score	2.72	2.72	2.72	2.72	2.72	2.72	2.72	_
BESG governance pillar score	3.27	3.71	3.65	3.90	3.94	3.91	3.89	_
ESG disclosure score	63.10	63.96	60.99	65.87	67.09	68.34	74.97	_
Environmental disclosure score	63.03	65.00	63.03	63.03	69.86	70.52	77.68	_
Social disclosure score	38.82	39.42	32.47	47.13	43.95	47.07	59.82	_
Governance disclosure score	87.36	87.36	87.36	87.36	87.36	87.36	87.36	_
Environmental								
Emissions reduction initiatives	Yes							
Climate change policy	Yes							
Climate change opportunities discussed	No	No	No	No	No	Yes	Yes	Yes
Risks of climate change discussed	No	No	No	No	No	Yes	Yes	Yes
GHG scope 1	0	0	0	0	1	1	2	3
GHG scope 2 location-based	41	40	39	42	40	51	62	73
GHG Scope 3	28	19	46	40	82	127	189	172
Carbon per unit of production	_	_	_	_	_	_	_	_
Biodiversity policy	Yes							
Energy efficiency policy	Yes							
Total energy consumption	80	80	92	84	80	102	104	216
Renewable energy use	0	3	7	9	10	10	13	64
Electricity used	78	79	92	80	80	91	97	149
Fuel used - natural gas	_	_	_	_	196	233	201	187

Sources: Bloomberg; FSSIA's compilation

Exhibit 16: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Fuel used - crude oil/diesel	No							
Waste reduction policy	Yes							
Hazardous waste	0	0	0	0	0	0	0	0
Total waste	2	2	2	3	6	8	6	9
Waste recycled	2	2	2	3	4	4	5	8
Waste sent to landfills	0	0	0	0	0	0	0	0
Environmental supply chain management	Yes							
Water policy	Yes							
Water consumption	_	_	_	_	434	445	226	293
Social								
Human rights policy	Yes							
Policy against child labor	Yes							
Quality assurance and recall policy	Yes							
Consumer data protection policy	Yes							
Equal opportunity policy	Yes							
Gender pay gap breakout	No	No	No	Yes	Yes	Yes	Yes	Yes
Pct women in workforce	80	75	71	71	65	69	71	73
Pct disabled in workforce	_	_	_	_	_	_	_	0
Business ethics policy	Yes							
Anti-bribery ethics policy	Yes							
Health and safety policy	Yes							
Lost time incident rate - employees	_	_	_	0	_	0	0	0
Total recordable incident rate - employees	1	0	0	1	0	_	_	0
Training policy	Yes							
Fair remuneration policy	No							
Number of employees – CSR	9,764	10,691	11,088	11,297	13,852	16,951	20,022	27,607
Employee turnover pct	11		,	7	6	7	3	12
Total hours spent by firm - employee training	96,865	115,161	128,431	168,455	678,748	1,017,000	918,317	1,333,420
Social supply chain management	Yes							
Governance								. 55
Board size	8	8	9	9	9	9	9	9
No. of independent directors (ID)	3	3	4	4	4	4	4	3
No. of women on board	0	0	1	1	1	1	1	2
No. of non-executive directors on board	6	6	7	6	6	6	6	5
Company conducts board evaluations	Yes							
No. of board meetings for the year	5	6	6	6	5	5	6	8
Board meeting attendance pct	97	93	96	100	100	98	98	100
Board duration (years)	3	3	3	3	3	3	3	3
Director share ownership guidelines	No							
Age of the youngest director	53	54	55	52	53	54	61	54
Age of the oldest director	71	72	73	73	73	74	75	76
No. of executives / company managers	5	5	, s 5	, s 5	73 <b>3</b>	4	4	4
No. of female executives	1	1	1	0	0	1	1	2
Executive share ownership guidelines Size of audit committee	No <b>3</b>							
No. of ID on audit committee	<b>3</b>	3	3	3	3	3	<b>3</b>	3
Audit masting attendance %	4	4	4	4	4	4	4	4
Audit meeting attendance %	90 <b>5</b>	92	100	100	100	100	100	100
Size of compensation committee	5	3	3	3	3	3	3	3
No. of ID on compensation committee	3	2	2	2	2	2	2	2
No. of compensation committee meetings	4	4	4	4	5	5	6	5
Compensation meeting attendance %	91	83	83	100	93	100	94	100
Size of nomination committee	5	3	3	3	3	3	3	3
No. of nomination committee meetings	4	4	4	4	5	5	6	5
Nomination meeting attendance %  Sustainability governance	91	83	83	100	93	100	94	100

Sources: Bloomberg; FSSIA's compilation

# **Disclaimer for ESG scoring**

ESG score	Methodolog	У			Rating					
The Dow		-	ansparent, rules-based	component selection		nd invited to th	ne annual S&P (	Slobal Corpora	ate.	
Jones			anies' Total Sustainabil		Be a member and invited to the annual S&P Global Corporate Sustainability Assessment (CSA) for DJSI. Companies with an S&P Global					
Sustainability			Corporate Sustainabili		ESG Score of less than 45% of the S&P Global ESG Score of the highes					
ndices (DJSI)	, ,	ranked compan	ies within each industry	y are selected for	scoring company are disqualified. The constituents of the DJSI indices ar selected from the Eligible Universe.				JSI indices ar	
By S&P Global	inclusion.				selected from th	e Eligible Uni	verse.			
SET ESG	SET ESG qu	antifies respons	sibility in Environmental	I and Social issues by	To be eligible for					
Ratings List			sparency in Governand				cator, unless the			
SETESG)			reemptive criteria, with		during the asses				ited against tr	
y The Stock Exchange of			board members and ex and combined holding n		nature of the rel				nnanies whos	
hailand			lifying criteria include: 1		<u>SETESG Index</u> is extended from the SET ESG Ratings companies whos 1) market capitalization > THB5b (~USD150b); 2) free float >20%; and 3)					
SET)	70%; 2) inde	pendent director	rs and free float violation	on; 3) executives'	liquidity >0.5%	of paid-up cap	ital for at least 9	out of 12 mor	nths. The	
			ocial & environmental in		SETTHSI Index					
	-		nings in red for > 3 yea				and no cap for r			
<b>CG Score</b> by Thai			n sustainable developn th support from the Sto		Scores are rate		ories: 5 for Excell -79), 2 for Fair (6			
Institute of			are from the perspectiv				v 50. Weightings			
Directors	,	of operations.		, , , , , , , , , , , , , , , , , , , ,	equitable treatm			,	• ,	
Association					stakeholders (2	, , ,	sure & transpare	ncy (15%); an	d 5) board	
(Thai IOD)					responsibilities	(35%).				
AGM level			ich shareholders' rights		The scores are					
By Thai		•	nto business operations		Very Good (90-	99), 3 for Fair	(80-89), and not	rated for scor	es below 79.	
nvestors Association			disclosed. All form impo	ually. The assessment						
TIA) with			es before the meeting (							
support from		•	eting (10%). (The first a	· //						
he SEC				ing how voting rights can be						
			the ease of attending meters for Q&A. The third involve	es the meeting minutes that						
			, resolutions and voting res							
Thai CAC	The core ele	ments of the Ch	ecklist include corruption	on risk assessment,	The document v					
By Thai			s, and the monitoring a	and developing of	passed Checklis		0 0	•		
Private Sector Collective			good for three years. a CAC certified member st	tort by outbritting o	approvals whos professionalism			espectea inai	viduais in	
Action Against			a CAC certilled member st n 18-month deadline to sub		professionalism	and ethical at	cilievernerits.			
Corruption	Certification, in	cluding risk assess	sment, in place of policy ar	nd control, training of						
(CAC)		employees, establ of policies to all s	lishment of whistleblowing takeholders.)	channels, and						
<u>Morningstar</u>		-	rating provides an ove	erall company score	A company's ES	G risk rating	score is the sum	of unmanage	d risk. The	
Sustainalytics										
<u>oustainarytics</u>	Daseu OII aii	assessificiti ui i	now much of a compar	ny's exposure to ESG	more risk is unn	nanaged, the l	higher ESG risk	is scorea.		
<u>Oustainarytics</u>	risk is unmar	naged. Sources to	be reviewed include corp	orate publications and	more risk is unn	nanaged, the l	nigher ESG risk	is scorea.		
<u>Justamarytics</u>	risk is unmar regulatory filing	naged. Sources to gs, news and other	•	orate publications and sites, multi-sector	more risk is unn	nanaged, the l	Medium	High	Severe	
<del>Justamarytics</del>	risk is unmar regulatory filing information, co	naged. Sources to gs, news and other	o be reviewed include corp media, NGO reports/webs ESG controversies, issuer	orate publications and sites, multi-sector		-	_		Severe 40+	
	risk is unmar regulatory filing information, co reports, and qu	naged. Sources to gs, news and other impany feedback, I uality & peer review	o be reviewed include corp media, NGO reports/webs ESG controversies, issuer	orate publications and sites, multi-sector feedback on draft ESG	NEGL	<b>Low</b> 10-20	Medium 20-30	<b>High</b> 30-40	40+	
	risk is unmar regulatory filing information, co reports, and qu The ESG sco positioned to	naged. Sources to gs, news and other impany feedback, I uality & peer review ore identifies sus outperform ove	o be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs. stainable companies the er the long term. The m	orate publications and sites, multi-sector feedback on draft ESG nat are better ethodology considers	NEGL 0-10 The total ESG s scores using ma	Low 10-20 core is calcula ateriality-base	Medium 20-30 ated as a weighted weights. The s	High 30-40 ed sum of the core is scaled	40+ features	
	risk is unmar regulatory filing information, co reports, and qu The ESG sco positioned to the principle	naged. Sources to gs, news and other impany feedback, I uality & peer review ore identifies sus outperform ove of financial mate	o be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs. stainable companies the er the long term. The meriality including inform	orate publications and sites, multi-sector feedback on draft ESG nat are better ethodology considers ation that significantly	NEGL 0-10 The total ESG s scores using ma	Low 10-20 core is calcula ateriality-base	Medium 20-30 ated as a weight	High 30-40 ed sum of the core is scaled	40+ features	
	risk is unmar regulatory filing information, co reports, and qu The ESG soc positioned to the principle helps explair	naged. Sources to gs, news and other impany feedback, I uality & peer review ore identifies sus o outperform ove of financial mate in future risk-adju	o be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the per the long term. The meriality including inform listed performance. Mat	orate publications and sites, multi-sector feedback on draft ESG and are better ethodology considers ation that significantly teriality is applied by	NEGL 0-10 The total ESG s scores using ma	Low 10-20 core is calcula ateriality-base	Medium 20-30 ated as a weighted weights. The s	High 30-40 ed sum of the core is scaled	40+ features	
	risk is unmar regulatory filing information, co reports, and qu The ESG sco positioned to the principle helps explair over-weightii	naged. Sources to gs, news and other impany feedback, I uality & peer review ore identifies sus o outperform ove of financial mate in future risk-adju	o be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs. stainable companies th eriality including inform isted performance. Mat higher materiality and	orate publications and sites, multi-sector feedback on draft ESG and are better ethodology considers ation that significantly teriality is applied by	NEGL 0-10 The total ESG s scores using ma	Low 10-20 core is calcula ateriality-base	Medium 20-30 ated as a weighted weights. The s	High 30-40 ed sum of the core is scaled	40+ features	
ESG Book	risk is unmar regulatory filling regulatory filling reports, and que The ESG sor positioned to the principle helps explair over-weightil weights on a	naged. Sources to gs, news and other impany feedback, I uality & peer review or e identifies sus outperform ove of financial mate in future risk-adjung features with rolling quarterly	o be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the or the long term. The meriality including inform isted performance. Mat higher materiality and v basis.	orate publications and sites, multi-sector feedback on draft ESG attact are better ethodology considers atton that significantly teriality is applied by rebalancing these	NEGL 0-10 The total ESG s scores using ma and 100 with hig	Low 10-20 core is calcula ateriality-based pher 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 between 0	
ESG Book	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 re	naged. Sources to gs, news and other mpany feedback, I uality & peer review ore identifies sus outperform ove of financial mate of future risk-adjung features with rolling quarterly atings aim to me	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies th er the long term. The meriality including inform isted performance. Mat higher materiality and v basis.	orate publications and sites, multi-sector feedback on draft ESG and are better ethodology considers ation that significantly teriality is applied by	NEGL 0-10  The total ESG s scores using ma and 100 with higher than 100 with higher than 100 with 100	Low 10-20 core is calculateriality-base in scores in scores in sand opportures.	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 between 0	
ESG Book	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 re	naged. Sources to gs, news and other mpany feedback, I uality & peer review ore identifies sus outperform ove of financial mate of future risk-adjung features with rolling quarterly atings aim to me	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the or the long term. The meriality including inform insted performance. Mathigher materiality and basis.  passure a company's malaggards according to	orate publications and sites, multi-sector feedback on draft ESG mat are better ethodology considers ration that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG rise	NEGL 0-10  The total ESG s scores using mand 100 with higher the score of the score	Low 10-20 core is calculateriality-base- pher scores in s and opportuthey manage	Medium 20-30 ated as a weight d weights. The s dicating better po-	High 30-40 ed sum of the core is scaled erformance. rules-based mye to peers.	40+ features between 0	
ESG Book	risk is unmar regulatory filling information, co- reports, and qu The ESG sco positioned to the principle helps explair over-weightii weights on a MSCI ESG ri identify indus	naged. Sources to sp. news and other impany feedback, I uality & peer review or outperform ove of financial mate future risk-adjung features with rolling quarterly atings aim to me stry leaders and 8.571-10.000	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies th er the long term. The meriality including inform isted performance. Mat higher materiality and v basis.	orate publications and sites, multi-sector feedback on draft ESG mat are better ethodology considers ation that significantly teriality is applied by rebalancing these anagement of financially is	NEGL 0-10  The total ESG s scores using mand 100 with higher the score of the score	Low 10-20 core is calculateriality-base- pher scores in s and opportuthey manage	Medium 20-30 ated as a weight d weights. The s dicating better po-	High 30-40 ed sum of the core is scaled erformance. rules-based mye to peers.	40+ features between 0	
ESG Book	risk is unmar regulatory filling information, cor reports, and que The ESG scor positioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify indus AAA AA	naged. Sources to sp. news and other impany feedback, I uality & peer review or cutperform ove of financial mate future risk-adjung features with rolling quarterly atings aim to me stry leaders and 8.571-10.000 7.143-8.570	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the or the long term. The meriality including inform insted performance. Mathigher materiality and basis.  passure a company's malaggards according to	orate publications and sites, multi-sector feedback on draft ESG mat are better ethodology considers ration that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG rise	NEGL 0-10  The total ESG s scores using mand 100 with higher the score of the score	Low 10-20 core is calculateriality-base- pher scores in s and opportuthey manage	Medium 20-30 ated as a weight d weights. The s dicating better po-	High 30-40 ed sum of the core is scaled erformance. rules-based mye to peers.	40+ features between 0	
ESG Book	risk is unmar regulatory filing information, cor reports, and que The ESG scor positioned to the principle helps explair over-weightir weights on a MSCI ESG r. identify indus AAA AA	naged. Sources to sp. news and other impany feedback, I hality & peer review ore identifies sus outperform ove of financial mate in future risk-adjung geatures with rolling quarterly atings aim to me stry leaders and 8.571-10.000 7.143-8.570 5.714-7.142	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the or the long term. The meniality including inform isted performance. Mathigher materiality and or basis.  pasure a company's malaggards according to Leader:	orate publications and sites, multi-sector feedback on draft ESG mat are better ethodology considers ration that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG rise	NEGL 0-10  The total ESG s scores using ma and 100 with high selevant ESG risk ks and how well anaging the most significant si	Low 10-20 core is calculateriality-bases in the scores in sand opportunity manage inificant ESG rise	Medium 20-30 ated as a weight d weights. The s dicating better positives. It uses a sthose risks relations with the series of th	High 30-40 ed sum of the core is scaled erformance.	features between 0	
ESG Book	risk is unmar regulatory filing information, correports, and quere positioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrials AAA  AA  BBB	naged. Sources to sp. news and other impany feedback, I ality & peer review ore identifies sus o outperform ove of financial mate in future risk-adjung geatures with rolling quarterly atings aim to me stry leaders and 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the or the long term. The meriality including inform insted performance. Mathigher materiality and basis.  passure a company's malaggards according to	orate publications and sites, multi-sector feedback on draft ESG and are better ethodology considers action that significantly teriality is applied by rebalancing these anagement of financially their exposure to ESG ris	NEGL 0-10  The total ESG s scores using ma and 100 with high selevant ESG risk ks and how well anaging the most significant si	Low 10-20 core is calculateriality-bases in the scores in sand opportunity manage inificant ESG rise	Medium 20-30 ated as a weight d weights. The s dicating better positives. It uses a sthose risks relations with the series of th	High 30-40 ed sum of the core is scaled erformance.	features between 0	
ESG Book	risk is unmar regulatory filing information, correports, and quere positioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA  AA  BBB  BB	naged. Sources to sp. news and other impany feedback, I. ality & peer review or eidentifies sus o outperform ove of financial mate in future risk-adjung features with rolling quarterly atings aim to me stry leaders and 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the or the long term. The meniality including inform isted performance. Mathigher materiality and or basis.  pasure a company's malaggards according to Leader:	orate publications and sites, multi-sector feedback on draft ESG nat are better ethodology considers attoin that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG ris leading its industry in magament or unexceptional	NEGL 0-10  The total ESG s scores using ma and 100 with high selevant ESG risk ks and how well anaging the most significant si	Low 10-20 core is calculateriality-bases in the scores in sand opportunity manage inificant ESG rise	Medium 20-30 ated as a weight d weights. The s dicating better positives. It uses a sthose risks relations with the series of th	High 30-40 ed sum of the core is scaled erformance.	features between 0	
ESG Book	risk is unmar regulatory filing information, correports, and quere positioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrials AAA  AA  BBB	naged. Sources to sp. news and other impany feedback, I ality & peer review ore identifies sus o outperform ove of financial mate in future risk-adjung geatures with rolling quarterly atings aim to me stry leaders and 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713	o be reviewed include corporated in the controversies, issuer less asserting the controversies, issuer less asserting the controversies is the controversies, issuer less asserting the controversies in the controversies	orate publications and sites, multi-sector feedback on draft ESG and are better ethodology considers action that significantly teriality is applied by rebalancing these anagement of financially their exposure to ESG rise leading its industry in management of their exposure to ESG rise leading its industry in management of their exposure to ESG rise leading its industry in management of their exposure to ESG rise leading its industry in management of their exposure to ESG rise leading its industry in management of their exposure to ESG rise leading its industry peers	NEGL 0-10  The total ESG s scores using ma and 100 with high elevant ESG risk ks and how well anaging the most significant for the second of maintain the second of maintain the second of the second	Low 10-20 core is calculateriality-base, ther scores in s and opportuthey manage unificant ESG ris	Medium 20-30 ated as a weight d weights. The s dicating better pointies. It uses a sthose risks relation was an opportunities. It is significant ESG risks and opportunities.	High 30-40 ed sum of the core is scaled erformance.  rules-based m ve to peers.	features between 0	
ESG Book	risk is unmar regulatory filing information, correports, and quere positioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA  AA  BBB  BB	naged. Sources to sp. news and other impany feedback, I. ality & peer review or eidentifies sus o outperform ove of financial mate in future risk-adjung features with rolling quarterly atings aim to me stry leaders and 8.571-10.000 7.143-8.570 5.714-7.142 4.286-5.713 2.857-4.285	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the or the long term. The meniality including inform isted performance. Mathigher materiality and or basis.  pasure a company's malaggards according to Leader:	orate publications and sites, multi-sector feedback on draft ESG nat are better ethodology considers attoin that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG ris leading its industry in magament or unexceptional	NEGL 0-10  The total ESG s scores using ma and 100 with high elevant ESG risk ks and how well anaging the most significant for the second of maintain the second of maintain the second of the second	Low 10-20 core is calculateriality-base, ther scores in s and opportuthey manage unificant ESG ris	Medium 20-30 ated as a weight d weights. The s dicating better pointies. It uses a sthose risks relation was an opportunities. It is significant ESG risks and opportunities.	High 30-40 ed sum of the core is scaled erformance.  rules-based m ve to peers.	features between 0	
ESG Book  MSCI  Moody's ESG	risk is unmar regulatory filing information, correports, and questioned to the principle helps explain over-weighting weights on a MSCI ESG ridentify industrial AAA  AA  BBB  BB  B  CCC  Moody's ass	naged. Sources to sp. news and other impany feedback, I ality & peer review or eidentifies sus o outperform ove of financial mate in future risk-adjung geatures with rolling quarterly atings aim to me stry 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 degre	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the or the long term. The meniality including inform isted performance. Mathigher materiality and or basis.  pasure a company's malaggards according to  Leader:  Average:  Laggard:	orate publications and sites, multi-sector feedback on draft ESG attained at are better ethodology considers action that significantly teriality is applied by rebalancing these anagement of financially repart their exposure to ESG rise leading its industry in management or unexceptional industry peers lagging its industry base take into account ESG of	NEGL 0-10  The total ESG s scores using ma and 100 with high and 100 with high anaging the most signal track record of mand d on its high exposurable to the decision of the d	Low 10-20 core is calculateriality-base- ther scores in s and opportute they manage prificant ESG rise maging the most are and failure to	Medium 20-30 ated as a weight d weights. The s dicating better production inities. It uses a those risks relatively significant ESG rise manage significant	High 30-40 ed sum of the core is scaled erformance.  rules-based move to peers. es es ests and opportunate ESG risks	features between 0	
ESG Book  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 to sp. news and other impany feedback, I hality & peer review or financial material future risk-adjung features with rolling quarterly atings aim to mestry 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 degre a company inte	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the or the long term. The meriality including inform isted performance. Mat higher materiality and or basis.  pasure a company's ma laggards according to  Leader:  Average:  Laggard:  the to which companies tograting ESG factors interested.	orate publications and sites, multi-sector feedback on draft ESG attained are better ethodology considers atton that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG rise leading its industry in management of the industry peers lagging its industry base take into account ESG of to its business model and	NEGL 0-10  The total ESG s scores using ma and 100 with high and 100 with high anaging the most signal track record of mand d on its high exposurable to the decision of the d	Low 10-20 core is calculateriality-base- ther scores in s and opportute they manage prificant ESG rise maging the most are and failure to	Medium 20-30 ated as a weight d weights. The s dicating better production inities. It uses a those risks relatively significant ESG rise manage significant	High 30-40 ed sum of the core is scaled erformance.  rules-based move to peers. es es ests and opportunate ESG risks	features between 0	
ESG Book  MSCI  Moody's ESG solutions	risk is unmar regulatory filing information, correports, and questioned to the principle helps explain over-weighting weights on a MSCI ESG ridentify industrial AAA  ABBB  BB  BCCC  Moody's ass believes that create sustai	naged. Sources to sp. news and other impany feedback, I lality & peer review or eidentifies sus outperform ove of financial mate in future risk-adjung geatures with rolling quarterly atings aim to me stry 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 degre a company inte nable value for	be reviewed include corporated in the long term. It is stainable companies the stainable companies the rest the long term. The mentiality including informusted performance. Mathigher materiality and vibasis.  Beasure a company's malaggards according to Leader:  Average:  Laggard:  Laggard:  Let to which companies grating ESG factors into shareholders over the least of the source of the least of the long terms and the laggards.	orate publications and sites, multi-sector feedback on draft ESG attained at are better ethodology considers attion that significantly teriality is applied by rebalancing these anagement of financially repart their exposure to ESG rise leading its industry in management of the management of the second industry peers lagging its industry base take into account ESG of to its business model and medium to long term.	NEGL 0-10  The total ESG s scores using ma and 100 with high and 100 with high anaging the most signal track record of mand d on its high exposure of the delivery outper of the total relatively outper of the total rel	Low 10-20 core is calculateriality-base- gher scores in s and opportute they manage gnificant ESG ris anaging the most are and failure to efinition and in forming its pe	Medium 20-30 ated as a weight d weights. The s dicating better production inities. It uses a those risks relati ks and opportunities significant ESG ris manage significan uplementation of ers is better posi	High 30-40 ed sum of the core is scaled erformance.  rules-based move to peers. es esseks and opportunate ESG risks f their strategy itioned to mitig	features between 0  nethodology to nities relative to policies. It gate risks and	
MSCI  Moody's ESG solutions  Refinitiv ESG	risk is unmar regulatory filling information, correports, and questioned to the principle helps explair over-weighting weights on a mestioned for identify industrial AAA  AABBB  BB  CCC  Moody's ass believes that create sustain	naged. Sources to sp. news and other impany feedback, I hality & peer review or financial material future risk-adjung features with rolling quarterly atings aim to mestry 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 degree a company internable value for stransparently and other species of transparently and other species are species of the species	be reviewed include corporated in the controversies, issuer as stainable companies the properties of the controversies in the controversies, issuer as stainable companies the properties of the controversies in the controversies in the controversies of the contr	orate publications and sites, multi-sector feedback on draft ESG attains are better ethodology considers attion that significantly teriality is applied by rebalancing these anagement of financially repart their exposure to ESG rise leading its industry in management of the industry peers lagging its industry base take into account ESG of the its business model and medium to long term.	NEGL 0-10  The total ESG s scores using ma and 100 with high elevant ESG risk is and how well anaging the most signal track record of main and d on its high exposurable precitives in the delar relatively outper G performance, c	Low 10-20 core is calculateriality-base; ther scores in s and opportute they manage inificant ESG rise and failure to efficition and informing its performing its performing its performing that are and failure to efficie and failu	Medium 20-30 ated as a weight d weights. The s dicating better po- inities. It uses a a those risks relati ks and opportunities significant ESG ris manage significan replementation of ers is better posi and effectiveness	High 30-40 ed sum of the core is scaled erformance.  rules-based may be to peers.  es  sks and opportunt at ESG risks  their strategy itioned to mitigators 10 ma	features between 0 nethodology to notices. It gate risks and in themes,	
MSCI  Moody's ESG solutions  Refinitiv ESG	risk is unmar regulatory filling information, correports, and questioned to the principle helps explain over-weighting weights on a MSCI ESG ridentify industrial AAA  ABBB  BB  CCC  Moody's ass believes that create sustain	naged. Sources to sp. news and other impany feedback, I hality & peer review or expension over of financial mater future risk-adjung features with rolling quarterly atings aim to metry 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 degree a company internable value for stransparently an blicly available a	be reviewed include corporated in the controversies, issuer as stainable companies the controversies, issuer as the controversies of th	orate publications and sites, multi-sector feedback on draft ESG attained at are better ethodology considers attion that significantly teriality is applied by rebalancing these anagement of financially repart their exposure to ESG rise leading its industry in management of the management of the second industry peers lagging its industry base take into account ESG of to its business model and medium to long term.	NEGL 0-10  The total ESG s scores using ma and 100 with high elevant ESG risk ks and how well anaging the most significant for the desired of the state of the st	Low 10-20 core is calculateriality-base, there is and opportutive manage unificant ESG rise and failure to effinition and informing its performant and commitment are as general performant.	Medium 20-30 ated as a weight d weights. The s dicating better po- antities. It uses a a those risks relation ks and opportunities significant ESG ris manage significant replementation of ers is better posi and effectiveness ce and insufficier	High 30-40 ed sum of the core is scaled erformance.  rules-based m ve to peers. es sks and opportur at ESG risks their strategy titioned to mittig across 10 ma nt degree of tr	features between 0 nethodology to nethodology to policies. It gate risks and in themes,	
MSCI  Moody's ESG solutions  Refinitiv ESG ating	risk is unmar regulatory filling information, correports, and questioned to the principle helps explair over-weighting weights on a most of the principle helps explair over-weighting weights on a most of the principle helps explair over-weighting weights on a most of the principle helps explair over-weighting weights on a most of the principle helps explain and the principle help	naged. Sources to sp. news and other impany feedback, I hality & peer review or financial material future risk-adjung features with rolling quarterly atings aim to mestry 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 degree a company internable value for stransparently an blicly available a terial ESG data	be reviewed include corporated in the long term. NGO reports/websesGG controversies, issuer with the long term. The meriality including informated performance. Mathigher materiality and vibasis.  Beasure a company's malaggards according to Leader:  Average:  Laggard:  Laggard	interpolation in the company's relative ESG of the its business model and interpolation in the company's relative ESG of the interpolation in the company's relative ESG of the its business model and medium to long term.  a company's relative ESG of the company's relative ESG	NEGL 0-10  The total ESG s scores using ma and 100 with high elevant ESG risk ks and how well anaging the most signal track record of ma d on its high exposu ojectives in the de relatively outper G performance, c 00 on relative ES satisfactory; >50 to	Low 10-20 core is calculateriality-base- ther scores in s and opportute they manage quificant ESG ris maging the most are and failure to efinition and in forming its per commitment are GG performan- 75 = good; and	Medium 20-30 ated as a weight d weights. The s dicating better po- antities. It uses a a those risks relati as significant ESG ris manage significan applementation of ers is better posi and effectiveness and effectiveness and insufficient >75 to 100 = exce	High 30-40 ed sum of the core is scaled erformance.  rules-based move to peers. es sks and opportunt t ESG risks f their strategy itioned to mitigate across 10 mant degree of trillent.)	features between 0  nethodology to nethodology to policies. It gate risks and in themes, cansparency in	
MSCI  Moody's ESG solutions  Refinitiv ESG rating  S&P Global	risk is unmar regulatory filling information, correports, and questioned to the principle helps explain over-weighting weights on a MSCI ESG ridentify industrial AAA  ABBB  BB  CCC  Moody's ass believes that create sustain Designed to based on pur reporting mar.	naged. Sources to sp. news and other impany feedback, I hality & peer review or financial material future risk-adjung features with rolling quarterly atings aim to metry 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 degree a company interinable value for strainsparently and bicky available a terial ESG data obal ESG Score	be reviewed include corporated in the controversies, issuer is stainable companies the properties of the controversies, issuer is stainable companies the properties of the long term. The meriality including informated performance. Mathigher materiality and relative and according to the companies of the companie	orate publications and sites, multi-sector feedback on draft ESG attained and sites, multi-sector feedback on draft ESG attained and section that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG rise leading its industry in management of the section industry peers lagging its industry base take into account ESG of the to its business model and medium to long term.	NEGL 0-10  The total ESG s scores using mand 100 with high and 100 with high exposure of the lating of the lating high and 100 with high exposure of the lating high and 100 with high exposure of the lating high and 100 with high exposure of the lating high and 100 with high exposure of the lating high and 100 with high exposure of the lating high exp	Low 10-20 core is calculateriality-base, the scores in sand opportute they manage unificant ESG rise and failure to effinition and informing its performant are so performant	Medium 20-30 ated as a weight d weights. The s dicating better po- antities. It uses a a those risks relati as significant ESG ris manage significan applementation of ers is better posi and effectiveness and effectiveness and insufficient >75 to 100 = exce	High 30-40 ed sum of the core is scaled erformance.  rules-based move to peers. es sks and opportunt t ESG risks f their strategy itioned to mitigate across 10 mant degree of trillent.)	features between 0 nethodology to nethodology to policies. It gate risks and in themes, cansparency in	
MSCI  Moody's ESG solutions  Refinitiv ESG rating  S&P Global	risk is unmar regulatory filling information, correports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA  ABBB  BB  CCC  Moody's ass believes that create sustain Designed to based on pur reporting marting information.	naged. Sources to sp. news and other impany feedback, I hality & peer review or financial material future risk-adjung features with rolling quarterly atings aim to mestry 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 degree a company internable value for stransparently and birdy available a terial ESG data obal ESG Score its peers within	be reviewed include corporated in the controversies, issuer as stainable companies the properties of the controversies, issuer as stainable companies the properties of the long term. The meriality including informated performance. Mathigher materiality and robasis.  Beasure a company's malaggards according to Leader:  Average:  Laggard:  Laggar	inta are better ethodology considers attorn feedback on draft ESG attorn that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG rise leading its industry in management of the industry peers are a mixed or unexceptional industry peers.  Itake into account ESG of the into accoun	NEGL 0-10  The total ESG s scores using mand 100 with high and 100 with high analysis and 100 with high analysis and 100 with high analysis and how well analysis and track record of mand on its high exposure of the control of the c	Low 10-20 core is calculateriality-base; ther scores in sand opportutive manage in a sand opportutive managing the most interest and failure to efficient and informing its performant of the sand opportunities opportunities of the sand opportun	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 move to peers. es sks and opportunities across 10 manual degree of trillent.) portunities, an	features between 0 nethodology to nethodology to policies. It gate risks and in themes, cansparency in d impacts	
Moody's ESG solutions  Refinitiv ESG ating  S&P Global	risk is unmar regulatory filling information, correports, and questioned to the principle helps explain over-weighting weights on a MSCI ESG ridentify industrial AAA  ABBB  BB  CCC  Moody's ass believes that create sustain Designed to based on pur reporting mar.	naged. Sources to sp. news and other impany feedback, I hality & peer review or financial material transparently and feedback of outperform over of financial material future risk-adjung features with rolling quarterly atings aim to mestry 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 degree a company interinable value for stransparently and bickly available aterial ESG data obal ESG Score its peers within	be reviewed include corporated in the controversies, issuer is stainable companies the properties of the long term. The meriality including informated performance. Mathigher materiality and robasis.  Beasure a company's malaggards according to Leader:  Average:  Laggard:  Lag	orate publications and sites, multi-sector feedback on draft ESG attained and sites, multi-sector feedback on draft ESG attained and sites, multi-sector feedback on draft ESG attained at are better ethodology considers attoined that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG rise leading its industry in material and an industry peers lagging its industry base attake into account ESG of the to its business model and medium to long term.  The accompany's relative ESG of the score ranges from 0 to 10 are 0 to 25 = poor; >25 to 50 = assuring a company's performance attained and sites at a company's performance attained and sites at a company's performance attained and sites at a company's performance attained	NEGL 0-10  The total ESG s scores using mand 100 with high and 100 with high analysis and 100 with high analysis and how well analysis and track record of mand don its high exposure of the second of	Low  10-20  core is calculateriality-base, ther scores in sand opportute they manage unificant ESG ristrated in the same and failure to effinition and informing its performant and the same and	Medium 20-30 ated as a weight d weights. The s dicating better po- antities. It uses a a those risks relative a significant ESG ris a manage significant a mplementation of the res is better posi and effectiveness are and insufficient and responsible to 100 = except of ESG risks, opposed	High 30-40 ed sum of the core is scaled erformance.  rules-based m ve to peers. es eks and opportun at ESG risks f their strategy itioned to mitig across 10 ma nt degree of tr llent.) portunities, an (ESG) perform	features between 0  methodology to methodology to policies. It gate risks and in themes, mansparency in d impacts  mance. The	
MSCI  Moody's ESG solutions  Refinitiv ESG rating	risk is unmar regulatory filling information, correports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA  ABBB  BB  CCC  Moody's ass believes that create sustain Designed to based on pur reporting marting information.	naged. Sources to sp. news and other impany feedback, I ality & peer review or in the control of financial material future risk-adjung features with rolling quarterly atings aim to mestry 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 degrea or company interiable value for sterial ESG data obal ESG Score its peers within	be reviewed include corp media, NGO reports/webs ESG controversies, issuer vs.  stainable companies the er the long term. The meriality including inform isted performance. Mat higher materiality and v basis.  sasure a company's ma laggards according to  Leader:  Average:  Laggard:  Laggard:  do bjectively measure and auditable data. The publicly. (Score ratings a tis a relative score mea the same industry clas Bloomberg score evalua score is based on Bloor	orate publications and sites, multi-sector feedback on draft ESG attained and sites, multi-sector feedback on draft ESG attained and sites, multi-sector feedback on draft ESG attained and section that significantly teriality is applied by rebalancing these anagement of financially rebalancing these anagement of financially rebalancing its industry in material and section industry in material section and section industry peers are also as a company's relative ESG of the section of t	NEGL 0-10  The total ESG s scores using ma and 100 with high and 100 with high analysis and how well analysis	Low 10-20 core is calculateriality-base; the scores in sand opportute they manage unificant ESG risk and failure to effinition and informing its percommitment at a GG performant 75 = good; and management of the score is a great of the score is a	Medium 20-30  ated as a weight d weights. The s dicating better p  inities. It uses a those risks relati ks and opportunitie significant ESG ris manage significan mplementation of ers is better posi and effectiveness ce and insufficier >75 to 100 = exce of ESG risks, opp and Governance weighted gener	High 30-40 ed sum of the core is scaled erformance.  rules-based move to peers. es sks and opportunities across 10 maint degree of trillent.) portunities, an (ESG) performatized mean (	features between 0  nethodology to nethodology to policies. It pate risks and in themes, ransparency in d impacts  mance. The power mean)	
Moody's ESG solutions Refinitiv ESG rating S&P Global	risk is unmar regulatory filling information, correports, and questioned to the principle helps explair over-weighting weights on a MSCI ESG ridentify industrial AAA  ABBB  BB  CCC  Moody's ass believes that create sustain Designed to based on pur reporting marting information.	naged. Sources to sp. news and other impany feedback, I hality & peer review or financial material future risk-adjung features with rolling quarterly atings aim to mestry 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 degree a company interial brown in the speers within the s	be reviewed include corporated in the controversies, issuer is stainable companies the properties of the controversies is stainable companies the properties of the long term. The mentiality including informated performance. Mathigher materiality and vibasis.  Beasure a company's malaggards according to Leader:  Average:  Laggard:  Lag	orate publications and sites, multi-sector feedback on draft ESG attained at are better ethodology considers attion that significantly teriality is applied by rebalancing these anagement of financially in their exposure to ESG rise leading its industry in management of the second at a mixed or unexceptional industry peers lagging its industry base take into account ESG of the into accoun	NEGL 0-10  The total ESG s scores using mand and 100 with high and 100 with high analysis and how well analysis and how well analysis and track record of mand don its high exposure of the control of th	Low  10-20  core is calculateriality-base, the scores in sand opportunithely manage and failure to estimate and failure to estimate and failure to commitment and failure to c	Medium 20-30 ated as a weight d weights. The s dicating better po- antities. It uses a a those risks relative. A significant ESG ris a manage significant replementation of ers is better posi and effectiveness are and insufficient a replementation of ers is better posi and effectiveness are and insufficient a replementation of ers is better posi and effectiveness are and insufficient are a replementation of ers is better posi and effectiveness and effectiveness and effectiveness and effectiveness and insufficient and effectiveness and effectiveness and effectiveness and insufficient and effectiveness	High 30-40  ed sum of the core is scaled erformance.  rules-based move to peers.  es sks and opportunate is their strategy ittoned to mitting across 10 manual degree of trailent.)  portunities, an (ESG) performatized mean (com 0 to 10; 10	features between 0  methodology to methodology to policies. It gate risks and in themes, mansparency in d impacts  mance. The power mean) is the best.	

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

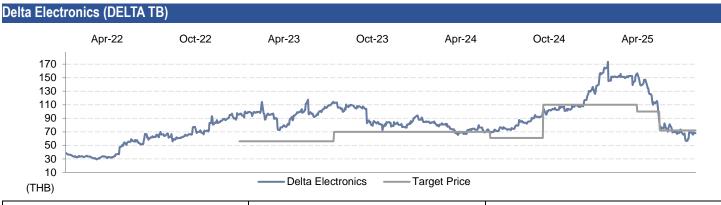
#### Sureeporn Teewasuwet FSS International Investment Advisory Securities Co., Ltd

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.

#### History of change in investment rating and/or target price



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
17-Feb-2023	REDUCE	56.00	29-Apr-2024	REDUCE	61.00	09-Jan-2025	HOLD	100.00
02-Aug-2023	REDUCE	70.00	30-Jul-2024	HOLD	110.00	17-Feb-2025	REDUCE	72.00

Sureeporn Teewasuwet started covering this stock from 17-Feb-2023

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
Delta Electronics	DELTA TB	THB 68.00	REDUCE	Upside risks to our P/E-based TP include 1) higher-than-expected global EV sales growth; 2) a sooner-than-expected decrease in raw material costs; and 3) a weaker-than-expected THB.

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 21-Apr-2025 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.