19 FEBRUARY 2024

EQUITY RESEARCH - COMPANY REPORT

DELTA ELECTRONICS

Extended growth likely, but price too demanding

- DELTA faced abnormally high expenses and lower purchase orders of EV power in 4Q23.
- DELTA guided q-q flat EV and prolonged expenses from its holding company 1Q24.
- Maintain our profit estimate, TP, and SELL rating.

Abnormally high expenses in 4Q23

DELTA posted a 4Q23 net profit of THB4.7b (-13% q-q, +12.5% y-y). Excluding an FX loss of THB93m and gains of THB546m from breaching commercial contracts by several customers, the core profit equaled THB4.26b (-16% q-q, -5% y-y), lower than our estimate and the consensus forecast due to abnormally high expenses, including 1) technical service fees of THB1.37b paid to Delta Taiwan (including retrospective fees for 9M23), and 2) a higher tax rate of 9.7% from 3% in 3Q23 and 7% in 4Q22 due to higher non-BOI revenue. Also, revenue from EV power weakened q-q due to US & Asian, and EU customers. However, the gross margin was healthy, up q-q due to higher Data Center margins. Moreover, the AI power system mix increased. For the year ended 2023, the net profit hit a new high of THB18.4b (+20% y-y).

1Q24 q-q EV power recovery may be slower than expected

At an analyst meeting last Friday (February 16), DELTA guided an unexciting 1Q24 EV Power purchase order outlook. It may be flat q-q (but surge y-y due to a low base). Also, technical service fees paid to the holding company may persist in 2024. However, DELTA may record it quarterly, similar to royalty fees which it pays to Delta Taiwan every year. Also, it may increase at the discretion of its parent company. In 2024, DELTA has set a continued revenue growth target of 10-20% y-y and a gross margin growth target of 1-2% from 2023 to 23-24%.

2024 growth should remain strong amid continued capacity expansion

EV power should remain a crucial 2024 growth driver with a prolonged high growth target. Also, DELTA expected a revenue recovery in others, such as the Data Center, Fan, and the India unit. It planned investment for continued capacity expansion after the EV-related expansion at its Factory in Bangpoo in 2023. This year, it will start expanding power electronics at its factory in Wellgrow in Chachoengsao with an investment budget of THB3b and expected completion in 2025. Besides, it planned an expansion in India and Germany with an investment budget of THB3.3b and THB964m, respectively. We project a prolonged net profit growth of 19% to THB22b in 2024, with assumptions close to the guidance.

Reaffirm our profit estimate, TP, and REDUCE rating

We retain our TP of THB70 (PE 40x, maintained). Although DELTA has decreased 15% YTD, it still traded above its fundamentals at a 2024E P/E of 44x. Hence, we keep our REDUCE rating unchanged. DELTA announced a 2023 DPS of THB0.45, implying a dividend yield of only 0.6%.



Sureeporn Teewasuwet

Fundamental Investment Analyst on Securities; License no. 040694 sureeporn.t@fssia.com, +66 2646 9972



FSSIA ESG rating

 $\star \star \star \star \star$

TARGET PF	RICE	THB70.00
CLOSE		THB77.50
UP/DOWNS	IDE	-9.7%
PRIOR TP		THB70.00
CHANGE IN	I TP	UNCHANGED
TP vs CONS	SENSUS	-11.8%

KEY STOCK DATA

DELTA TB

YE Dec (THB m)	2023	2024E	2025E	2026E
Revenue	146,371	166,307	186,514	204,363
Net profit	18,423	21,416	24,780	28,849
EPS (THB)	1.48	1.72	1.99	2.31
vs Consensus (%)	-	19.9	18.1	17.7
EBITDA	22,992	26,320	30,032	33,331
Recurring net profit	17,201	21,416	24,780	28,849
Core EPS (THB)	1.38	1.72	1.99	2.31
Chg. In EPS est. (%)	nm	(1.8)	(1.8)	nm
EPS growth (%)	18.1	24.5	15.7	16.4
Core P/E (x)	56.2	45.1	39.0	33.5
Dividend yield (%)	0.6	0.7	0.8	0.9
EV/EBITDA (x)	41.9	36.2	31.5	26.4
Price/book (x)	14.3	11.5	9.8	8.1
Net debt/Equity (%)	(6.0)	(16.7)	(21.3)	(73.5)
ROE (%)	28.1	28.2	27.1	26.5



Major shareholder Delta Electronics International (Singapore) Pte Ltd (43%)

12m high/low (THB)	119.50/70.50
Issued shares (m)	12,473.82

Sources: Bloomberg consensus; FSSIA estimates

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 bullish view of DELTA's growth since its main product, i.e., Power Supply, is crucial to several product groups, such as Automotive, Industrial, Data Center, Cloud Computing, and Medical. Besides, DELTA has expanded to downstream businesses, such as EV power and EV battery chargers, Telecommunication Infrastructure, and Regional Energy Management. However, DELTA is fully valued, in our view. It is trading at a high 2024-25E PE of 45x and 39x, respectively, higher than its historical average and electronic component peers' average.

Company profile

DELTA manufactures and exports electronics devices in the power supply market and components in the Fan & Thermal Management market, EMI Filters, and Solenoids. Its main power management products include switching power supplies, EV chargers, DC-DC converters, and solar inverters. DELTA has production bases and markets in several regions across the globe, such as Asia, Europe, and South America. At the end of 2022, its revenue came mainly from Power Electronics at 80.4% (of total revenue), followed by Infrastructure at 15.1%, Automation at 2.6%, and others at 0.1%, respectively.

www.deltathailand.com

Catalysts

Potential catalysts for DELTA's earnings growth in 2024 are 1) purchase order growth from EV Power with supporting capacity expansion, 2) a recovery in Data Centre and Fan, 3) lower raw material costs and an absence of inventory provision, 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-than-expected THB.

Event calendar

 Date
 Event

 April 2024
 1Q24 results announcement

 1Q23 analyst meeting

Principal activities (revenue, 2023)

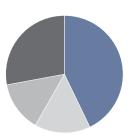
- Power electronics 82.2 %
- Infrastructure 15.1 %
- Automation 2.6 %
- Others 0.1 %

Source: Delta Electronics

Major shareholders

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





Source: Delta Electronics

Key assumptions

	2024E	2025E	2026E
Power electronics (USD m)	4,159	4,699	5,169
Infrastructure (USD m)	750	803	859
Automation (USD m)	127	145	160
Total revenue (USD m)	5,040	5,652	6,193
FX rate (USD/THB)	33.0	33.0	33.0
Gross margin (%)	23.1	23.5	0.0

Source: FSSIA estimates

Earnings sensitivity

- For every 1% increase in USD revenue, we estimate 2024 net profit to rise by 0.9%, and vice versa, all else being equal.
- For every THB1/USD increase, we estimate 2024 net profit to fall by 6.5%, and vice versa, all else being equal.
- For every 0.5% increase in GPM, we estimate 2024 net profit to rise by 3.4%, and vice versa, all else being equal.
- For every 0.2% increase in SG&A, we estimate 2024 net profit to fall by 1.8%, and vice versa, all else being equal.

Source: FSSIA estimates

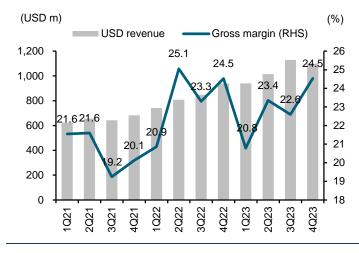


Exhibit 1: DELTA - 4Q23 earnings results

	4Q22	1Q23	2Q23	3Q23	4Q23	Cha	nae	2022	2023	Change
	(THB m)	(q-q%)	(y-y%)	(THB m)	(THB m)	(y-y%)				
Sales	34,606	32,294	35,840	40,478	37,759	(6.7)	9.1	118,558	146,371	23.5
Cost of sales	26,117	25,581	27,472	31,333	28,495	(9.1)	9.1	90,618	112,881	24.6
Gross profit	8,489	6,713	8,369	9,145	9,264	1.3	9.1	27,940	33,491	19.9
SG&A	3,829	3,236	3,796	4,098	4,353	6.2	13.7	13,447	15,483	15.1
Operating profit	4,661	3,477	4,573	5,047	4,911	(2.7)	5.4	14,493	18,008	24.3
Interest expense	12	25	22	34	28	(17.0)	131.9	20	109	460.3
Tax expense	314	121	279	167	506	203.7	61.2	467	1,073	129.8
Other gain (Loss)	(311)	155	234	380	452	19.2	nm	781	1,221	56.4
Reported net profit	4,190	3,614	4,668	5,429	4,711	(13.2)	12.5	15,343	18,423	20.1
Core profit	4,500	3,459	4,434	5,049	4,259	(15.6)	(5.4)	14,563	17,201	18.1
Key Ratios (%)						(ppt)	(ppt)			(ppt)
Gross margin	24.5	20.8	23.4	22.6	24.5	1.9	0.0	23.6	22.9	(0.7)
SG&A / Sales	11.1	10.0	10.6	10.1	11.5	1.4	0.5	11.3	10.6	(0.8)
Operating margin	13.5	10.8	12.8	12.5	13.0	0.5	(0.5)	12.2	12.3	0.1
Net margin	12.1	11.2	13.0	13.4	12.5	(0.9)	0.4	12.9	12.6	(0.4)
Core margin	13.0	10.7	12.4	12.5	11.3	(1.2)	(1.7)	12.3	11.8	(0.5)
Operating Statistics										
THB total revenue (THB m)	34,606	32,294	35,840	40,478	37,759	(6.7)	9.1	118,558	146,371	23.5
USD total revenue (USD m)	939	940	1,014	1,129	1,100	(2.6)	17.1	3,337	4,183	25.4
Revenue by segment (USD m)										
Power Electronics	727	726	827	955	855	(10.5)	17.6	2,562	3,363	31.3
Infrastructure	188	183	158	147	145	(1.4)	(22.9)	686	633	(7.7)
Automation	23	30	29	25	25	0.0	8.7	85	109	28.2
Revenue by key product (USD m)										
EV power	205	231	278	372	299	(19.6)	45.5	606	1,179	94.7
Fan & Thermal management	102	97	100	90	81	(9.5)	(20.7)	385	368	(4.3)
India business	80	86	90	82	100	22.7	25.8	252	358	42.0
Gross margin by key product (%)										
EV power	15.0	9.2	15.7	16.1	14.9	(1.2)	(0.1)	14.9	14.3	(0.6)
Fan & Thermal management	23.0	17.5	19.3	18.3	18.8	0.5	(4.2)	23.0	18.5	(4.5)
India business	16.3	19.3	18.6	15.6	15.5	(0.1)	(0.8)	13.9	17.2	3.3

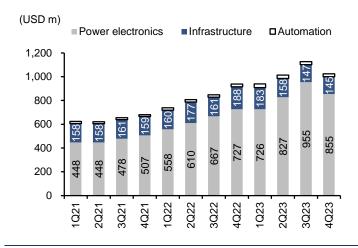
Sources: DELTA, FSSIA's compilation

Exhibit 2: USD revenue and gross margin



Sources: DELTA, FSSIA's compilation

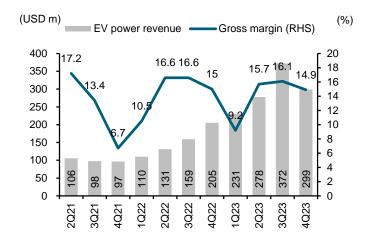
Exhibit 3: Revenue breakdown by segment



Sources: DELTA, FSSIA's compilation

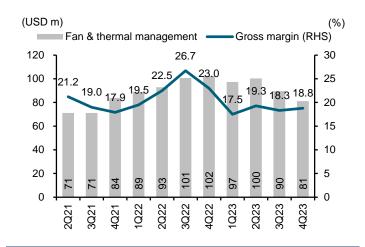
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Exhibit 4: EV power revenue and gross margin



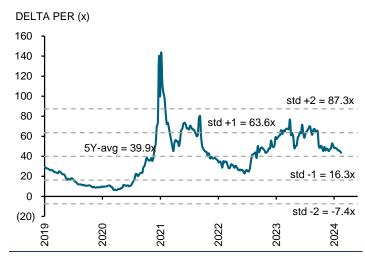
Sources: DELTA, FSSIA's compilation

Exhibit 6: Fan & thermal management and gross margin



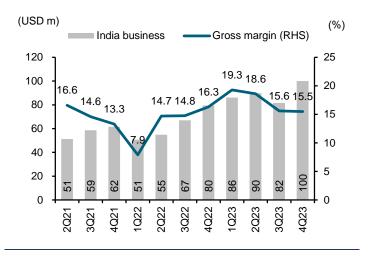
Sources: DELTA, FSSIA's compilation

Exhibit 8: Historical P/E band



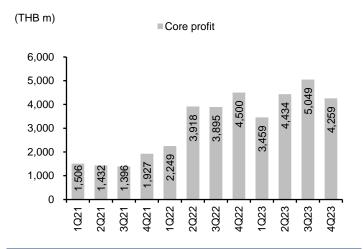
Sources: Bloomberg, FSSIA's compilation

Exhibit 5: India business and gross margin



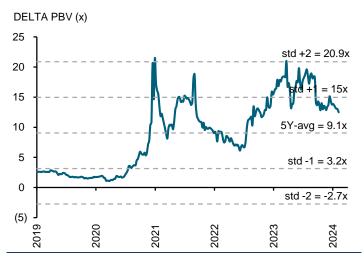
Sources: DELTA, FSSIA's compilation

Exhibit 7: Core profit



Sources: DELTA, FSSIA's compilation

Exhibit 9: Historical P/BV band



Sources: Bloomberg, FSSIA's compilation

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Financial Statements

Delta Electronics

Profit and Loss (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026
Revenue	118,558	146,371	166,307	186,514	204,363
Cost of goods sold	(90,618)	(112,881)	(127,890)	(142,683)	(155,521
Gross profit	27,940	33,491	38,417	43,831	48,843
Other operating income	613	758	998	1,119	1,226
Operating costs	(13,502)	(15,865)	(17,235)	(19,307)	(21,128
Operating EBITDA	18,240	22,992	26,320	30,032	33,33
Depreciation	(3,190)	(4,608)	(4,140)	(4,390)	(4,390
Goodwill amortisation	0	0	0	0	(
Operating EBIT	15,050	18,384	22,180	25,642	28,94 ⁻
Net financing costs	(20)	(109)	(100)	(95)	(90
Associates	0	0	0	0	(
Recurring non-operating income	0	0	0	0	(
Non-recurring items	781	1,221	0	0	(
Profit before tax	15,811	19,496	22,080	25,548	28,85
Тах	(467)	(1,073)	(662)	(766)	(
Profit after tax	15,345	18,423	21,417	24,782	28,85
Minority interests	(1)	0	(2)	(2)	(2
Preferred dividends	0	0	0	0	Ì
Other items	-	-	-	-	
Reported net profit	15,343	18,423	21,416	24,780	28,84
Non-recurring items & goodwill (net)	(781)	(1,221)	0	0	
Recurring net profit	14,563	17,201	21,416	24,780	28,84
Per share (THB)					
Recurring EPS *	1.17	1.38	1.72	1.99	2.3
Reported EPS	1.23	1.48	1.72	1.99	2.3
DPS	0.40	0.45	0.52	0.60	0.6
Diluted shares (used to calculate per share data)	12,474	12,474	12,474	12,474	12,474
Growth					
Revenue (%)	40.6	23.5	13.6	12.2	9.0
Operating EBITDA (%)	109.9	26.1	14.5	14.1	11.
Operating EBIT (%)	143.5	22.1	20.6	15.6	12.9
Recurring EPS (%)	139.7	18.1	24.5	15.7	16.4
Reported EPS (%)	129.0	20.1	16.2	15.7	16.4
Dperating performance					
Gross margin inc. depreciation (%)	23.6	22.9	23.1	23.5	23.9
Gross margin exc. depreciation (%)	26.3	26.0	25.6	25.9	26.0
Operating EBITDA margin (%)	15.4	15.7	15.8	16.1	16.3
Operating EBIT margin (%)	12.7	12.6	13.3	13.7	14.
Net margin (%)	12.3	11.8	12.9	13.3	14.
Effective tax rate (%)	3.0	5.5	3.0	3.0	0.
Dividend payout on recurring profit (%)	34.3	32.6	30.0	30.0	30.0
nterest cover (X)	771.2	168.1	221.3	271.3	320.9
nventory days	93.2	97.4	97.4	92.9	44.
Debtor days	75.0	76.5	76.5	75.7	36.
Creditor days	109.1	105.0	99.0	95.2	44.
Dperating ROIC (%)	28.3	26.3	26.2	27.6	42.
ROIC (%)	28.3	25.3	25.2	26.5	42.
ROE (%)	30.3	28.1	28.2	20.5	26.
ROA (%) ' Pre-exceptional, pre-goodwill and fully diluted	18.2	17.4	18.3	18.4	21.9
	0000	0000	00045	00055	
Revenue by Division (THB m)	2022	2023	2024E	2025E	2026
Power electronics	91,252	120,290	137,240	155,081	170,590
nfrastructure	24,185	22,105	24,753	26,486	28,34
Automation	3,009	3,830	4,175	4,801	5,28
Others	112	146	139	146	15

Sources: Delta Electronics; FSSIA estimates

Financial Statements Delta Electronics

Cash Flow (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Recurring net profit	14,563	17,201	21,416	24,780	28,849
Depreciation	3,190	4,608	4,140	4,390	4,390
Associates & minorities	-	-	-	-	
Other non-cash items	-	(546)	0	0	(
Change in working capital	(5,108)	(10,111)	(2,012)	(6,383)	42,745
Cash flow from operations	12,644	11,152	23,543	22,786	75,983
Capex - maintenance	-	-	-	-	
Capex - new investment	(7,788)	(11,633)	(8,335)	(5,000)	(
Net acquisitions & disposals	-	-	-	-	
Dther investments (net)	213	(595)	(488)	(802)	2,798
Cash flow from investing	(7,575)	(12,227)	(8,823)	(5,802)	2,798
Dividends paid	(1,855)	(5,188)	(6,425)	(7,434)	(8,655
	(1,055)	(3,100)	(0,423)	(7,434)	(0,000)
Equity finance					
Debt finance	569	3,568	(1,745)	298	(3,810
Other financing cash flows	(213)	(376)	1,826	(3,000)	(
Cash flow from financing	(1,499)	(1,996)	(6,344)	(10,136)	(12,465
Non-recurring cash flows	-	-	-	-	
Other adjustments	0	546	0	0	(
Net other adjustments	0	546	0	0	(
Movement in cash	3,571	(2,525)	8,376	6,848	66,316
Free cash flow to firm (FCFF)	5,088.89	(965.85)	14,820.11	17,078.61	78,871.14
Free cash flow to equity (FCFE)	5,425.24	2,663.13	14,800.79	14,282.25	74,970.68
Per share (THB)					
	0.41	(0.00)	1 10	1.37	6.32
FCFF per share		(0.08)	1.19		
FCFE per share	0.43 1.42	0.21 1.70	1.19 2.05	1.14 2.34	6.01 2.66
Recurring cash flow per share	1.42	1.70	2.05	2.34	2.00
Balance Sheet (THB m) Year Ending Dec	2022	2023	2024E	2025E	2026E
Tangible fived essets (grees)	27 621	47.966	E7.966	62.966	62.966
Tangible fixed assets (gross)	37,631	47,866	57,866	62,866	62,866
Less: Accumulated depreciation	(14,449)	(17,659)	(23,463)	(27,853)	(32,242)
Tangible fixed assets (net)	23,182	30,207	34,403	35,013	30,624
Intangible fixed assets (net)	629	591	629	629	629
Long-term financial assets	248	236	236	236	236
Invest. in associates & subsidiaries	-	-	-	-	
Cash & equivalents	10,142	7,617	15,993	22,842	89,158
A/C receivable	28,132	33,237	36,451	40,880	C
Inventories	25,049	32,747	33,286	37,137	(
Other current assets	2,702	1,965	3,326	3,730	C
Current assets	66,025	75,566	89,057	104,588	89,158
Other assets	901	1,545	1,996	2,798	,
Total assets	90,984	108,145	126,319	143,264	120,646
Common equity	54,680	67,539	84,356	98,701	118,896
Minorities etc.	0,000	07,000	04,550	0	110,030
Total shareholders' equity	54,680	67,539	84,356	98,701	118,896
Long term debt	930	969	954	874	794
Other long-term liabilities	2,705	3,461	3,326	3,730	(
Long-term liabilities	3,635	4,431	4,280	4,604	794
A/C payable	30,202	32,096	35,038	37,137	(
Short term debt	1,011	2,607	982	956	956
Other current liabilities	1,457	1,472	1,663	1,865	(
Current liabilities	32,670	36,176	37,683	39,958	956
Total liabilities and shareholders' equity	90,984	108,145	126,319	143,264	120,646
Net working capital	24,225	34,380	36,362	42,745	C
Invested capital	49,184	66,959	73,625	81,420	31,488
* Includes convertibles and preferred stock which is beir	,	,			- ,
Per share (THB)					
Book value per share	4.38	5.41	6.76	7.91	9.53
Tangible book value per share	4.33	5.37	6.71	7.86	9.48
Financial strength					
Net debt/equity (%)	(15.0)	(6.0)	(16.7)	(21.3)	(73.5
Net debt/total assets (%)	(9.0)	(3.7)	(11.1)	(14.7)	(72.4)
Current ratio (x)	2.0	2.1	2.4	2.6	93.3
CF interest cover (x)	678.1	131.7	231.8	205.0	832.3
Valuation	2022	2023	2024E	2025E	2026E
Recurring P/E (x) *	66.4	56.2	45.1	39.0	33.5
Recurring P/E @ target price (x) *	60.0	50.8	40.8	35.2	30.3
	63.0	52.5	45.1	39.0	33.5
Reported P/E (X)	0.5	0.6	0.7	0.8	0.9
				9.8	8.1
Dividend yield (%)		14.3	11.5		
Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x)	17.7	14.3 14.4	11.5 11.5		
Dividend yield (%) Price/book (x) Price/tangible book (x)	17.7 17.9	14.4	11.5	9.9	8.2
Dividend yield (%) Price/book (x) Price/tangible book (x) EV/EBITDA (x) **	17.7 17.9 52.6	14.4 41.9	11.5 36.2	9.9 31.5	8.2 26.4
Dividend yield (%) Price/book (x) Price/tangible book (x)	17.7 17.9	14.4	11.5	9.9	8.2 26.4 23.6 27.9

Sources: Delta Electronics; FSSIA estimates

FINANSIA

Delta Electronics Thailand (DELTA TB)

FSSIA ESG rating

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87.59 /100

Exhibit 10: FSSIA ESG score implication

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.
\star	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 11: 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
DELTA	87.59	Y	Y	Y	5.00	5.00	Certified	Low	68.81	AA		91.19	74.00	4.15	
HANA	56.35		Y	Y	5.00	5.00	Certified	Negligible	56.93	BBB		44.01	31.00	1.81	
KCE	45.77				5.00	5.00	Certified	Medium	52.70			61.53	16.00	2.16	52.98

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

Exhibit 12: 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	3.90	3.63	3.92	4.13	4.06	4.24	4.03	4.15
BESG environmental pillar score	4.87	4.68	5.12	5.75	5.33	5.80	5.25	_
BESG social pillar score	2.72	2.72	2.72	2.72	2.72	2.72	2.72	_
BESG governance pillar score	3.91	3.27	3.71	3.65	3.90	3.94	3.91	_
ESG disclosure score	61.65	63.10	63.96	60.99	65.87	67.09	68.34	—
Environmental disclosure score	59.71	63.03	65.00	63.03	63.03	69.86	70.52	_
Social disclosure score	37.79	38.82	39.42	32.47	47.13	43.95	47.07	_
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	No	Yes	Yes
Risks of climate change discussed	No	No	No	No	No	No	Yes	Yes
GHG scope 1	0	0	0	0	0	1	1	1
GHG scope 2 location-based	40	41	40	39	42	40	51	60
GHG Scope 3	_	28	19	46	40	82	127	167
Carbon per unit of production	_	_	_	_	_	_	_	_
Biodiversity policy	Yes							
Energy efficiency policy	Yes							
Total energy consumption	76	80	80	92	84	80	102	121
Renewable energy use	0	0	3	7	9	10	10	_
Electricity used	74	78	79	92	80	80	91	120
Fuel used - natural gas	_	_	_	_	_	196	233	_

Sources: Bloomberg; FSSIA's compilation

Exhibit 13: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Fuel used - crude oil/diesel	No	No						
Waste reduction policy	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hazardous waste	0	0	0	0	0	0	0	0
Total waste	2	2	2	2	3	6	8	9
Waste recycled	1	2	2	2	3	4	4	5
Waste sent to landfills	0	0	0	0	0	0	0	0
Environmental supply chain management	Yes	Yes						
Water policy	Yes	Yes						
Water consumption	_	-	-	-	_	434	445	536
Social								
Human rights policy	Yes	Yes						
Policy against child labor	Yes	Yes						
Quality assurance and recall policy	Yes	Yes						
Consumer data protection policy	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Equal opportunity policy	Yes	Yes						
Gender pay gap breakout	No	No	No	No	Yes	Yes	Yes	No
Pct women in workforce	84	80	75	71	71	65	69	_
Pct disabled in workforce	_	_	_	_	_	_	_	_
Business ethics policy	Yes	Yes						
Anti-bribery ethics policy	Yes	Yes						
Health and safety policy	Yes	Yes						
Lost time incident rate - employees	_	_	—	—	0	-	0	0
Total recordable incident rate - employees	1	1	0	0	1	0	-	_
Training policy	Yes	Yes						
Fair remuneration policy	No	No						
Number of employees – CSR	10,466	9,764	10,691	11,088	11,297	13,852	16,951	20,022
Employee turnover pct	13	11	—	—	7	6	7	3
Total hours spent by firm - employee training	131,464	96,865	115,161	128,431	168,455	678,748	1,017,000	1,561,720
Social supply chain management	Yes	Yes						
Governance								
Board size	9	8	8	9	9	9	9	9
No. of independent directors (ID)	4	3	3	4	4	4	4	4
No. of women on board	1	0	0	1	1	1	1	1
No. of non-executive directors on board	7	6	6	7	6	6	6	6
Company conducts board evaluations	Yes	Yes						
No. of board meetings for the year	5	5	6	6	6	5	5	6
Board meeting attendance pct	93	97	93	96	100	100	98	98
Board duration (years)	3	3	3	3	3	3	3	3
Director share ownership guidelines	No	No						
Age of the youngest director	52	53	54	55	52	53	54	61
Age of the oldest director	72	71	72	73	73	73	74	75
No. of executives / company managers	5	5	5	5	5	3	4	4
No. of female executives	1	1	1	1	0	0	1	1
Executive share ownership guidelines	No	No						
Size of audit committee	3	3	3	3	3	3	3	3
No. of ID on audit committee	3	3	3	3	3	3	3	3
Audit committee meetings	5	4	4	4	4	4	4	4
Audit meeting attendance %	100	90	92	100	100	100	100	100
Size of compensation committee	3	5	3	3	3	3	3	3
No. of ID on compensation committee	2	3	2	2	2	2	2	2
No. of compensation committee meetings	2	4	4	4	4	5	5	6
Compensation meeting attendance %	60	91	83	83	100	93	100	94
Size of nomination committee	3	5	3	3	3	3	3	3
No. of nomination committee meetings	2	4	4	4	4	5	5	6
Nomination meeting attendance %	60	91	83	83	100	93	100	94
Sustainability governance								
		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Sources: Bloomberg; FSSIA's compilation

Disclaimer for ESG scoring

ESG score	Methodolog	IY			Rating					
The Dow Jones Sustainability Indices (<u>DJSI</u>) By S&P Global	process bas from the anr Only the top inclusion.	ed on the com nual S&P Glob -ranked comp	transparent, rules-based panies' Total Sustainabi al Corporate Sustainabili anies within each industr	lity Scores resulting ity Assessment (CSA). ry are selected for	Sustainability / ESG Score of scoring compa selected from	Assessment (C less than 45% ny are disqual the Eligible Un		mpanies with al ESG Score uents of the D	an S&P Global of the highest JSI indices are	
Sustainability Investment List (<u>THSI</u>) by The Stock Exchange of Thailand (<u>SET</u>)	managing bu Candidates 1) no irregul float of >150 up capital. S 70%; 2) inde wrongdoing	usiness with tr must pass the ar trading of th shareholders ome key disque pendent direct related to CG,	ility in Environmental and ansparency in Governan preemptive criteria, with he board members and e , and combined holding r ualifying criteria include: tors and free float violatii , social & environmental arrnings in red for > 3 yea	two crucial conditions: xecutives; and 2) free must be >15% of paid- 1) CG score of below on; 3) executives' impacts; 4) equity in	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 during the assessment year. The scoring will be fairly weighted against the nature of the relevant industry and materiality. <u>SETTHSI Index</u> is extended from the THSI companies whose 1) market capitalization > THB5b (~USD150b); 2) free float >20%; and 3) liquidity >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 at maximum, and no cap for number of stocks.					
CG Score by Thai Institute of Directors Association (Thai IOD)	annually by Thailand (SE	the Thai IOD,	h in sustainable develop with support from the St ts are from the perspectiv s.	ock Exchange of	Good (80-89), and not rated f equitable treat	3 for Good (70 or scores belo ment of shareh 25%); 4) disclo	ories: 5 for Excell 0-79), 2 for Fair (6 w 50. Weightings holders (weight 29 Isure & transpare	60-69), 1 for P include: 1) th 5% combined	ass (60-69), ne rights; 2) and); 3) the role of	
AGM level By Thai Investors Association (TIA) with support from the SEC	It quantifies the extent to which shareholders' rights and equitable treatment are incorporated into business operations and information is transparent and sufficiently disclosed. All form important elements of two out of five the CG components to be evaluated annually. The assessment criteria cover AGM procedures before the meeting (45%), at the meeting date (45%), and after the meeting (10%). (<i>The first assesses 1</i>) advance circulation of sufficient information for voting: and 2) facilitating how voting rights can be exercised. The second assesses 1) the ase of attending meetings: 2) transparency and verifiability; and 3) openness for Q&A. The third involves the meeting minutes that should contain discussion issues, resolutions and voting results.)							(//		
Thai CAC By Thai Private Sector Collective Action Against Corruption (CAC)	establishme policies. The (Companies d Declaration of Certification, ii managers and	nt of key contr e Certification i eciding to becon Intent to kick off including risk ass	Checklist include corrupti ols, and the monitoring a is good for three years. ne a CAC certified member s an 18-month deadline to sul essment, in place of policy a ablishment of whistleblowing II stakeholders.)	and developing of start by submitting a bmit the CAC Checklist for nd control, training of	The document will be reviewed by a committee of nine professionals. passed Checklist will move for granting certification by the CAC Coun approvals whose members are twelve highly respected individuals in professionalism and ethical achievements.					
<u>Morningstar</u> Sustainalytics	based on an risk is unma	assessment on aged. Sources	sk rating provides an ove of how much of a compar s to be reviewed include corp her media, NGO reports/web	ny's exposure to ESG	more risk is un	managed, the	score is the sum higher ESG risk	is scored.		
		ompany feedbac uality & peer rev	k, ESG controversies, issuer iews.	feedback on draft ESG	0-10	Low 10-20	Medium 20-30	High 30-40	Severe 40+	
ESG Book	positioned to the principle helps explain over-weighti	o outperform o of financial m n future risk-ad	sustainable companies th wer the long term. The m ateriality including inform djusted performance. Ma th higher materiality and rly basis.	nethodology considers nation that significantly ateriality is applied by	The total ESG scores using n	score is calcul nateriality-base	ated as a weight ad weights. The s adicating better p	ed sum of the core is scaled	features	
<u>MSCI</u>				anagement of financially their exposure to ESG ris					nethodology to	
	AAA AA	8.571-10.00 7.143-8.570	Leader:	leading its industry in m	anaging the most s	ignificant ESG ri	sks and opportunitie	'S		
	A BBB BB	5.714-7.142 4.286-5.713 2.857-4.285	Average:	a mixed or unexception industry peers	al track record of m	anaging the mos	t significant ESG ris	sks and opportu	nities relative to	
	B CCC	1.429-2.856 0.000-1.428	Laggard:	lagging its industry base	ed on its high expo	sure and failure t	o manage significan	t ESG risks		
<u>Moody's ESG</u> solutions	Moody's ass believes that	esses the deg t a company ir	gree to which companies	take into account ESG o to its business model and medium to long term.						
Refinitiv ESG rating	based on pu	blicly available	e and auditable data. The	e a company's relative ES e score ranges from 0 to are 0 to 25 = poor; >25 to 50 =	100 on relative	SG performar	ice and insufficie	nt degree of t		
S&P Global				asuring a company's perf ssification. The score ran			of ESG risks, opp	portunities, an	id impacts	
Bloomberg	ESG Score		Bloomberg score evalu score is based on Bloo	ating the company's agg mberg's view of ESG fina the weights are determin	regated Environ	nental, Social The score is	a weighted gener	alized mean (power mean)	
			or r mar ocores, where	the weights are determined	eu by the pillar t	ποπιγτατικίτις	. values lange m		10 110 5001.	

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

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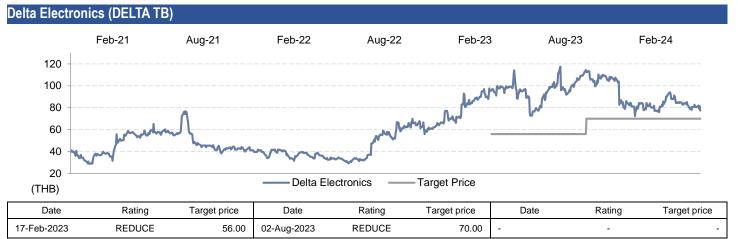
Sureeporn Teewasuwet FSS International Investment Advisory Securities Co., Ltd

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History of change in investment rating and/or target price



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 77.50	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 16-Feb-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.

