

# KCE ELECTRONICS KCE TB

THAILAND / ELECTRONIC COMPONENT

**BUY**  
 FROM HOLD

## Starting to see cost-saving benefits

- Expect 2Q24 profit to be higher than previously thought, supported by a higher gross margin, expected to reach a 10-quarter high.
- We expect the benefits from cost savings to drive growth in 2H24. Hence, we have increased 2024E profit by 17% to grow 39% y-y.
- Upgraded to BUY with a higher TP of THB50.

### Expect 2Q24 profit to be higher than previously thought

We expect a 2Q24 net profit of THB574m (+11.4% q-q, +52.6% y-y). Excluding an FX gain of THB50, KCE's 2Q24 core profit would equal THB524m (+24.5% q-q, +63.6% y-y). Note that we have not included a one-time gain from the sale of its factory in Bang Poo. As a cash item, it would help strengthen liquidity. The main driver in 2Q24 is the positive impact of the cost-saving initiatives, particularly the chemical production, which began at the Ayutthaya plant at the beginning of 2024. Therefore, we expect a 2Q24 gross margin of 24.6%, up from 23.1% in 1Q24 and 19.1% in 2Q23, the highest in 10 quarters.

### Revenue unexciting in 2Q24 but should recover in 3Q24

The revenue recovery remains unexciting. We expect 2Q24 total revenue to grow slightly by 3% q-q and be flat y-y, despite HDI orders starting to rebound towards the end of 2Q24. Multilayer PCBs remained sluggish partly due to the slow global economic recovery, and some orders were postponed to 3Q24. Assuming in-line 2Q24 revenue, KCE's 1H24 revenue would decline 3.2% y-y. However, management maintains its 4-7% y-y revenue growth target in 2024, implying a 2H24 revenue growth of at least 12% y-y. In the short term, orders in 3Q24 may rebound at least 5-6% q-q but decrease y-y. Therefore, we maintain a conservative revenue assumption for 2024 based on flat revenue growth from 2023.

### Gross margin may accelerate in 2H24

We have a more bullish view of the gross margin recovery, with cost savings expected to become apparent from 2Q24 and to increase in 2H24 from self-produced chemicals at the Lad Krabang plant. Management targets a higher gross margin in 3Q-4Q24 by 1.5-2% q-q each quarter, implying a targeted 2024 gross margin of 25.3%, up from 20.8% in 2023. Although copper increased to USD9,000-10,000/tonne, a decline in the price of other raw materials and cost-saving benefits would help offset it.

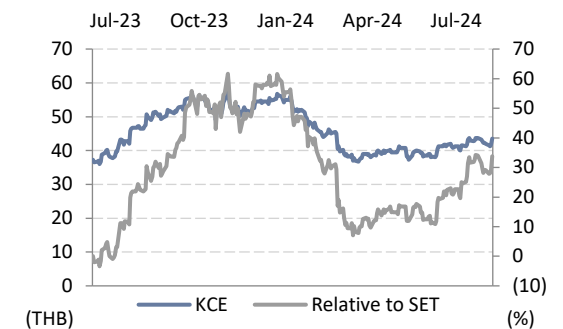
### Upgraded to BUY with a higher TP of THB50

We have raised our 2024E net profit by 17% to THB2.3b (+39% y-y) by increasing our gross margin assumption to 24.6% (from 23.5%) to reflect positive cost savings. Our 1H24E net profit of THB1.1b implies a 51% y-y growth, accounting for 46% of the full-year estimate. Similarly, we increased our TP to THB50 (from THB43) based on the same PE ratio of 25x.

|                 |          |
|-----------------|----------|
| TARGET PRICE    | THB50.00 |
| CLOSE           | THB43.50 |
| UP/DOWNSIDE     | +14.9%   |
| PRIOR TP        | THB43.00 |
| CHANGE IN TP    | +16.3%   |
| TP vs CONSENSUS | +5.8%    |

### KEY STOCK DATA

| YE Dec (THB m)       | 2023   | 2024E  | 2025E  | 2026E  |
|----------------------|--------|--------|--------|--------|
| Revenue              | 16,344 | 16,483 | 18,214 | 19,707 |
| Net profit           | 1,720  | 2,381  | 2,524  | 2,725  |
| EPS (THB)            | 1.45   | 2.01   | 2.13   | 2.31   |
| vs Consensus (%)     | -      | 12.8   | 2.8    | 2.8    |
| EBITDA               | 2,944  | 3,706  | 4,177  | 4,524  |
| Recurring net profit | 1,569  | 2,266  | 2,524  | 2,725  |
| Core EPS (THB)       | 1.33   | 1.92   | 2.13   | 2.31   |
| Chg. In EPS est. (%) | -      | 11.3   | 5.2    | 2.3    |
| EPS growth (%)       | (31.2) | 44.4   | 11.4   | 8.0    |
| Core P/E (x)         | 32.8   | 22.7   | 20.4   | 18.9   |
| Dividend yield (%)   | 2.5    | 3.5    | 3.7    | 4.0    |
| EV/EBITDA (x)        | 17.7   | 14.0   | 12.8   | 11.9   |
| Price/book (x)       | 3.8    | 3.6    | 3.4    | 3.3    |
| Net debt/Equity (%)  | 3.6    | 3.3    | 13.2   | 16.4   |
| ROE (%)              | 11.6   | 16.2   | 17.3   | 17.9   |



| Share price performance        | 1 Month              | 3 Month | 12 Month |
|--------------------------------|----------------------|---------|----------|
| Absolute (%)                   | 8.1                  | 10.1    | 13.0     |
| Relative to country (%)        | 11.1                 | 16.3    | 31.6     |
| Mkt cap (USD m)                | 1,403                |         |          |
| 3m avg. daily turnover (USD m) | 9.4                  |         |          |
| Free float (%)                 | 0                    |         |          |
| Major shareholder              | Ongkosit Group (34%) |         |          |
| 12m high/low (THB)             | 57.50/35.75          |         |          |
| Issued shares (m)              | 1,182.06             |         |          |

Sources: Bloomberg consensus; FSSIA estimates



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### Investment thesis

We have a more bullish view of the gross margin recovery, with cost savings expected to become apparent from 2Q24 and to increase in 2H24 from self-produced chemicals. Management targets a higher gross margin in 3Q-4Q24 by 1.5-2% q-q each quarter, implying a targeted 2024 gross margin of 25.3%, up from 20.8% in 2023.

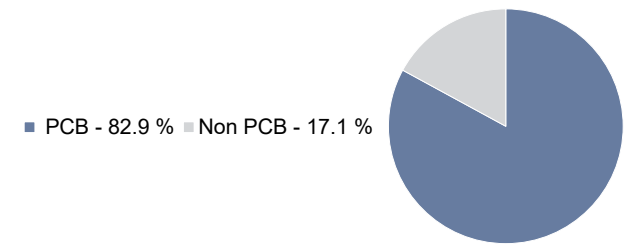
Meanwhile, we have a neutral view of the revenue recovery in 2024. Due to the slow global economic recovery, we maintain a conservative revenue assumption for 2024 based on flat revenue growth from 2023. However, we expect the PCB market to recover and KCE's revenue to rebound in 2025.

### Company profile

KCE produces and distributes printed circuit boards (PCB). Its key customer base is in the auto industry, which accounts for 70% of total revenue. The remaining 30% are in consumer and industrial. At the end of 2023, KCE earned 49.4% of its revenue from exports to Europe, followed by the U.S. (22.9%), China (12.6%), and Asia (5.1%), while its domestic sales represented 10%.

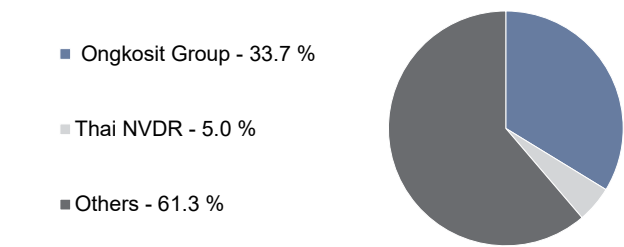
[www.kcethai.in.th](http://www.kcethai.in.th)

### Principal activities (revenue, 2023)



Source: KCE Electronics

### Major shareholders



Source: KCE Electronics

### Catalysts

Potential catalysts for KCE's earnings growth in 2024 include 1) a global economic recovery and faster global auto sales recovery than expected, 2) a decline in raw material prices, 3) higher production efficiency due to an increased utilization rate, and 4) successful capacity expansion as planned.

### Risks to our call

Downside risks to our P/E-based TP include 1) slower-than-expected global economic and car sales recoveries; 2) lower-than-expected decrease in raw material costs; 3) a weaker-than-expected THB; and 4) a minimum wage increase or a labor shortage.

### Event calendar

| Date           | Event                     |
|----------------|---------------------------|
| 13 August 2024 | 2Q24 results announcement |
| 14 August 2024 | 2Q24 analyst meeting      |

### Key assumptions

|                         | 2024E | 2025E | 2026E |
|-------------------------|-------|-------|-------|
| Sales volume (sq.ft.mn) | 30.1  | 33.2  | 35.8  |
| ASP (USD per sq.ft.)    | 13.9  | 14.0  | 14.2  |
| Total revenue (USD m)   | 499   | 552   | 597   |
| Gross margin (%)        | 24.6  | 24.8  | 24.8  |

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 to sales, we estimate 2024 net profit to fall by 1.8%, and vice versa, all else being equal.

Source: FSSIA estimates

## Exhibit 1: KCE – 2Q24 earnings preview

|                     | 1Q23    | 2Q23    | 3Q23    | 4Q23    | 1Q24    | 2Q24E   | ----- Change ----- |        | 1H23    | 1H24E   | Change |
|---------------------|---------|---------|---------|---------|---------|---------|--------------------|--------|---------|---------|--------|
|                     | (THB m) | (THB m) | (THB m) | (THB m) | (THB m) | (THB m) | (q-q%)             | (y-y%) | (THB m) | (THB m) | (y-y%) |
| Sales               | 4,025   | 3,898   | 4,326   | 4,095   | 3,780   | 3,893   | 3.0                | (0.1)  | 7,923   | 7,673   | (3.2)  |
| Cost of sales       | 3,236   | 3,152   | 3,375   | 3,177   | 2,906   | 2,935   | 1.0                | (6.9)  | 6,388   | 5,841   | (8.6)  |
| Gross profit        | 789     | 746     | 951     | 917     | 874     | 958     | 9.6                | 28.4   | 1,535   | 1,832   | 19.3   |
| SG&A                | 480     | 415     | 458     | 420     | 422     | 428     | 1.5                | 3.1    | 896     | 850     | (5.1)  |
| Operating profit    | 309     | 330     | 493     | 497     | 452     | 529     | 17.1               | 60.2   | 639     | 982     | 53.5   |
| Interest expense    | 24      | 29      | 27      | 24      | 15      | 15      | 2.9                | (48.2) | 52      | 30      | (43.6) |
| Tax expense         | 25      | 24      | 33      | 49      | 64      | 44      | (32.1)             | 82.7   | 49      | 108     | 120.4  |
| Other gain (Loss)   | 31      | 56      | 49      | 14      | 95      | 50      | (47.1)             | (10.7) | 87      | 145     | 65.8   |
| Reported net profit | 345     | 376     | 520     | 478     | 515     | 574     | 11.4               | 52.6   | 722     | 1,089   | 50.9   |
| Core profit         | 314     | 320     | 471     | 464     | 421     | 524     | 24.5               | 63.6   | 634     | 945     | 48.9   |

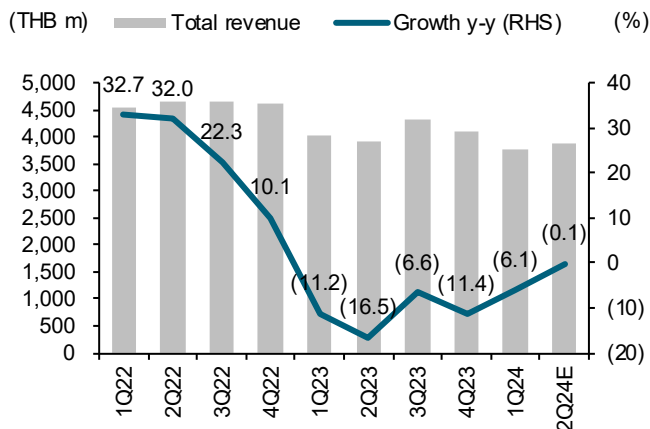
| Key Ratios (%)   |      |      |      |      |      |      | (ppt) | (ppt) |      |      |       |
|------------------|------|------|------|------|------|------|-------|-------|------|------|-------|
| Gross margin     | 19.6 | 19.1 | 22.0 | 22.4 | 23.1 | 24.6 | 1.5   | 5.5   | 19.4 | 23.9 | 4.5   |
| SG&A to Sales    | 11.9 | 10.7 | 10.6 | 10.3 | 11.2 | 11.0 | (0.2) | 0.3   | 11.3 | 11.1 | (0.2) |
| Operating margin | 7.7  | 8.5  | 11.4 | 12.1 | 12.0 | 13.6 | 1.6   | 5.1   | 8.1  | 12.8 | 4.7   |
| Net margin       | 8.6  | 9.7  | 12.0 | 11.7 | 13.6 | 14.7 | 1.1   | 5.1   | 9.1  | 14.2 | 5.1   |
| Core margin      | 7.8  | 8.2  | 10.9 | 11.3 | 11.1 | 13.5 | 2.3   | 5.2   | 8.0  | 12.3 | 4.3   |

| Operating statistics (USD m) |     |     |     |     |     |     |       |        |     |     |        |
|------------------------------|-----|-----|-----|-----|-----|-----|-------|--------|-----|-----|--------|
| PCB sales                    | 103 | 93  | 102 | 94  | 94  | 96  | 2.0   | 3.2    | 196 | 191 | (2.8)  |
| Non-PCB sales                | 16  | 20  | 21  | 21  | 12  | 12  | (0.4) | (41.7) | 37  | 24  | (35.4) |
| Total sales                  | 119 | 114 | 124 | 115 | 106 | 108 | 1.7   | (4.8)  | 233 | 214 | (8.0)  |

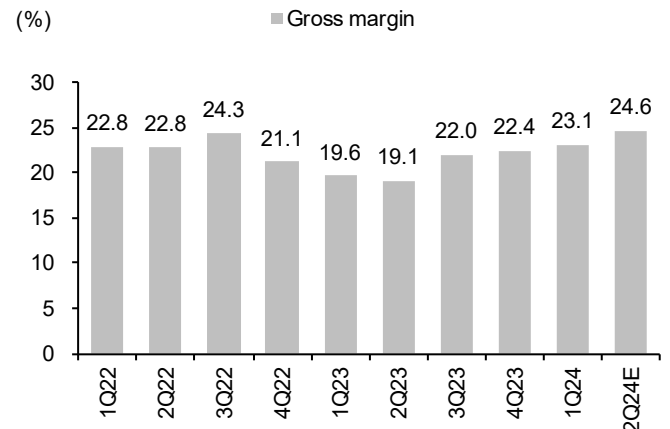
Sources: KCE, FSSIA estimates

## Exhibit 2: Quarterly total revenue and growth



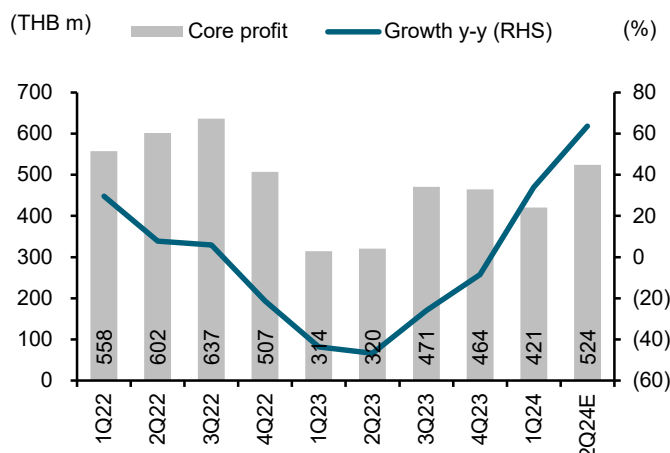
Sources: KCE, FSSIA estimates

## Exhibit 3: Quarterly gross margin



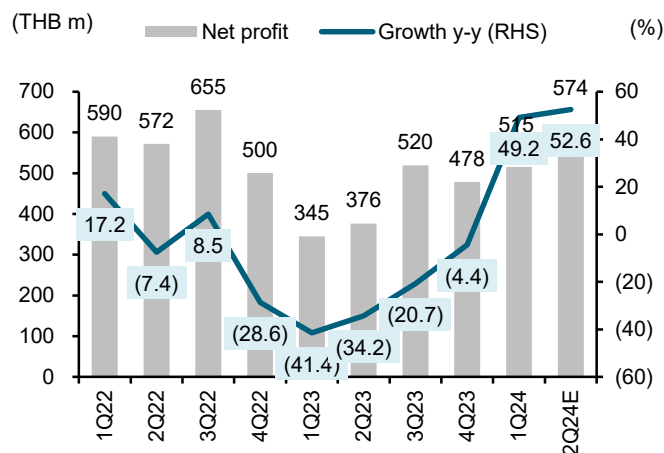
Sources: KCE, FSSIA estimates

Exhibit 4: Quarterly core profit and growth



Sources: KCE, FSSIA estimates

Exhibit 5: Quarterly net profit and growth



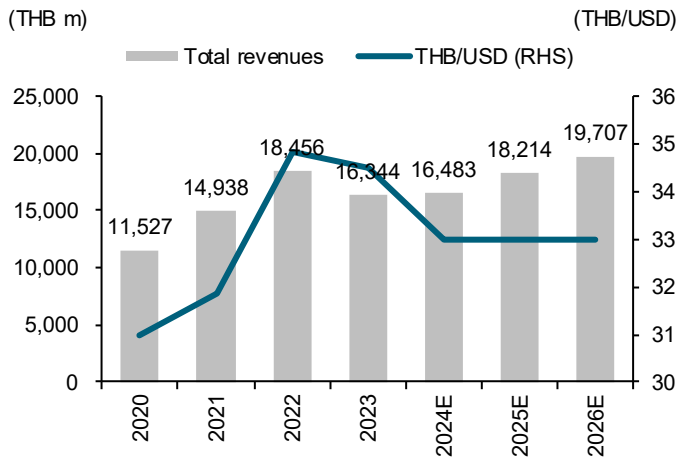
Sources: KCE, FSSIA estimates

Exhibit 6: Change of key assumptions for KCE

|                                     | Current          |                  |                  | Previous         |                  |                  | Change       |              |              |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------|--------------|--------------|
|                                     | 2024E<br>(THB m) | 2025E<br>(THB m) | 2026E<br>(THB m) | 2024E<br>(THB m) | 2025E<br>(THB m) | 2026E<br>(THB m) | 2024E<br>(%) | 2025E<br>(%) | 2026E<br>(%) |
| Total sale value (THB m)            | 16,483           | 18,214           | 19,707           | 16,483           | 18,214           | 19,707           | 0.0          | 0.0          | 0.0          |
| Costs                               | 12,428           | 13,697           | 14,820           | 12,609           | 13,842           | 14,899           | (1.4)        | (1.1)        | (0.5)        |
| Gross profit                        | 4,055            | 4,517            | 4,887            | 3,873            | 4,371            | 4,809            | 4.7          | 3.3          | 1.6          |
| SG&A expense                        | 1,780            | 1,967            | 2,128            | 1,780            | 1,912            | 2,069            | 0.0          | 2.9          | 2.9          |
| Interest expense                    | 64               | 104              | 117              | 109              | 133              | 151              | (41.7)       | (22.2)       | (22.2)       |
| Reported net profit                 | 2,381            | 2,524            | 2,725            | 2,037            | 2,400            | 2,665            | 16.9         | 5.2          | 2.3          |
| Core profit                         | 2,266            | 2,524            | 2,725            | 2,037            | 2,400            | 2,665            | 11.3         | 5.2          | 2.3          |
| <b>Key ratios (%)</b>               |                  |                  |                  |                  |                  |                  |              |              |              |
| Total revenue growth                | 0.9              | 10.5             | 8.2              | 0.9              | 10.5             | 8.2              |              |              |              |
| Net profit growth                   | 38.5             | 6.0              | 8.0              | 18.4             | 17.8             | 11.1             |              |              |              |
| Core profit growth                  | 44.4             | 11.4             | 8.0              | 29.8             | 17.8             | 11.1             |              |              |              |
| Gross margin                        | 24.6             | 24.8             | 24.8             | 23.5             | 24.0             | 24.4             | 1.1          | 0.8          | 0.4          |
| SG&A to sales                       | 10.8             | 10.8             | 10.8             | 10.8             | 10.5             | 10.5             | 0.0          | 0.3          | 0.3          |
| Net margin                          | 14.4             | 13.9             | 13.8             | 12.4             | 13.2             | 13.5             | 2.1          | 0.7          | 0.3          |
| Core margin                         | 13.7             | 13.9             | 13.8             | 12.4             | 13.2             | 13.5             | 1.4          | 0.7          | 0.3          |
| <b>Operating statistics (THB m)</b> |                  |                  |                  |                  |                  |                  |              |              |              |
| Sales volume (m sq.ft.)             | 30.1             | 33.2             | 35.8             | 30.1             | 33.2             | 35.8             | 0.0          | 0.0          | 0.0          |
| ASP (USD per sq.ft.)                | 13.9             | 14.0             | 14.2             | 13.9             | 14.0             | 14.2             | 0.0          | 0.0          | 0.0          |
| Total revenue (USD m)               | 499.5            | 551.9            | 597.2            | 499.5            | 552              | 597.2            | 0.0          | 0.0          | 0.0          |

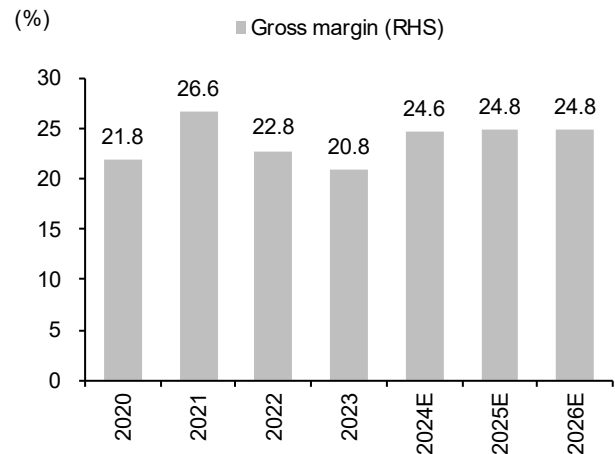
Source: FSSIA estimates

Exhibit 7: Yearly total revenue and THB/USD assumption



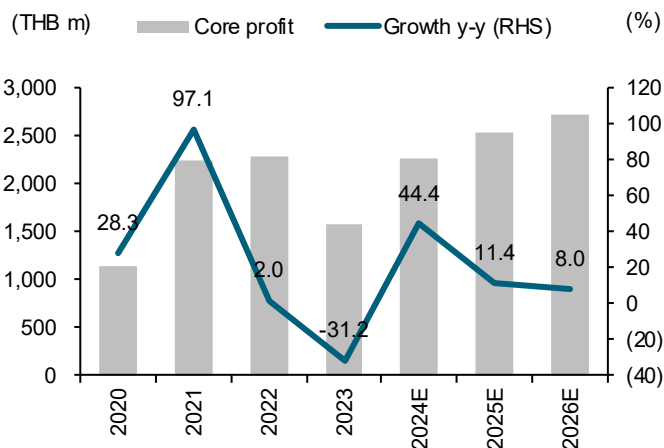
Sources: KCE, FSSIA estimates

Exhibit 8: Yearly gross margin



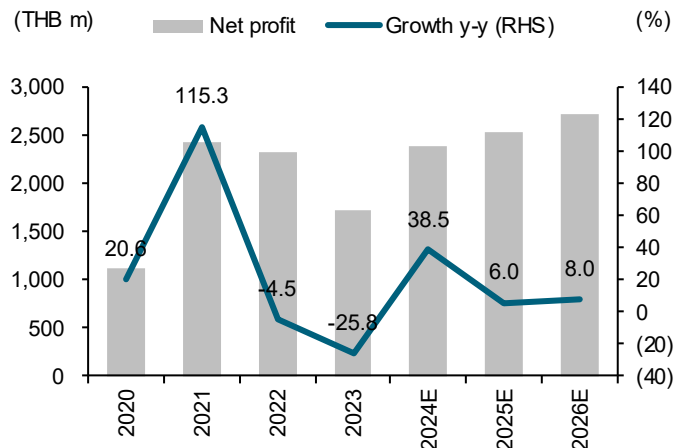
Sources: KCE, FSSIA estimates

Exhibit 9: Yearly core profit and growth



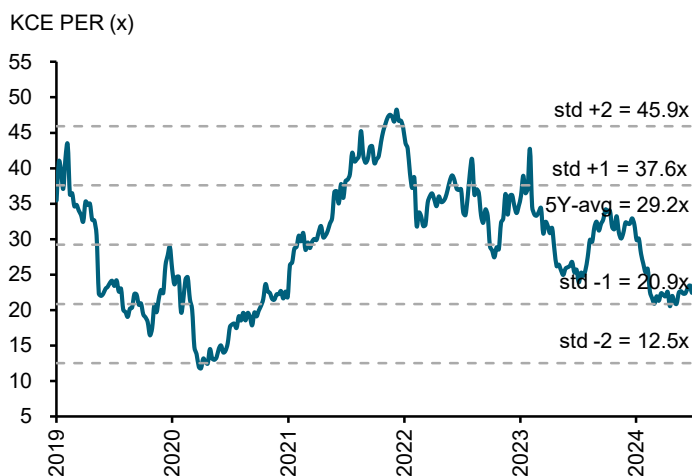
Sources: KCE, FSSIA estimates

Exhibit 10: Yearly net profit and growth



Sources: KCE, FSSIA estimates

Exhibit 11: Historical P/E band



Sources: Bloomberg; FSSIA estimates

Exhibit 12: Historical P/BV band



Sources: Bloomberg; FSSIA estimates

## Exhibit 13: Peer comparisons as of 4 Jul 2024

| Company                       | BBG       | Rec    | ----- Share price ----- |                 |               | Market<br>Cap | ----- PE ----- |            | ----- ROE --- |            | ----- PBV ----- |            | EV/EBITDA  |            |
|-------------------------------|-----------|--------|-------------------------|-----------------|---------------|---------------|----------------|------------|---------------|------------|-----------------|------------|------------|------------|
|                               |           |        | Current<br>(LCY)        | Target<br>(LCY) | Upside<br>(%) |               | 24E<br>(x)     | 25E<br>(x) | 24E<br>(%)    | 25E<br>(%) | 24E<br>(x)      | 25E<br>(x) | 24E<br>(x) | 25E<br>(x) |
| Thailand                      |           |        |                         |                 |               |               |                |            |               |            |                 |            |            |            |
| Delta Electronics (Thailand)* | DELTA TB  | REDUCE | 84.50                   | 61.00           | (28)          | 28,764        | 55.0           | 48.1       | 26.0          | 25.1       | 13.2            | 11.1       | 41.9       | 36.9       |
| KCE Electronics*              | KCE TB    | BUY    | 43.50                   | 50.00           | 15            | 1,403         | 22.7           | 20.4       | 16.2          | 17.3       | 3.6             | 3.4        | 14.0       | 12.8       |
| Hana Microelectronics         | HANA TB   | BUY    | 48.00                   | 50.00           | 4             | 1,160         | 19.4           | 17.4       | 7.4           | 7.9        | 1.4             | 1.3        | 8.6        | 7.8        |
| SVI                           | SVI TB    | n/a    | 8.75                    | n/a             | n/a           | 524           | 19.5           | 16.1       | 14.5          | 16.2       | 2.8             | 2.5        | 14.5       | 12.7       |
| Cal-Comp Electronics          | CCET TB   | n/a    | 3.84                    | n/a             | n/a           | 1,143         | 20             | 17.4       | 5.3           | 8.9        | 0.9             | 1.6        | n/a        | n/a        |
| Stars Microelectronics        | SMT TB    | n/a    | 2.62                    | n/a             | n/a           | 61            | 7.9            | n/a        | 14.2          | n/a        | 1.1             | n/a        | 3.6        | n/a        |
| Thailand average              |           |        |                         |                 |               | 33,055        | 24.1           | 23.9       | 13.9          | 15.1       | 3.8             | 4.0        | 16.5       | 17.5       |
| Regional                      |           |        |                         |                 |               |               |                |            |               |            |                 |            |            |            |
| Taiwan Semiconductor          | 2330 TT   | n/a    | 1,005.00                | n/a             | n/a           | 803,350       | 31.6           | 25.5       | 25.6          | 26.8       | 7.5             | 6.2        | 17.3       | 13.7       |
| STMicroelectronics            | STMPA FP  | n/a    | 38.09                   | n/a             | n/a           | 37,564        | 9.6            | 19.3       | 27.8          | 11.4       | 2.3             | 2.1        | 5.6        | 8.8        |
| ROHM                          | 6963 JP   | n/a    | 2,260.00                | n/a             | n/a           | 5,803         | 11.5           | 18.1       | 9.2           | 5.1        | 1.0             | 1.0        | 6.6        | 7.8        |
| Infineon                      | IFX GR    | n/a    | 34.97                   | n/a             | n/a           | 49,415        | 13.3           | 19.0       | 20.5          | 12.8       | 2.7             | 2.5        | 8.6        | 10.9       |
| Mitsubishi Electric           | 6503 JP   | n/a    | 2,674.50                | n/a             | n/a           | 35,875        | 26.5           | 21.5       | 7.1           | 8.1        | 1.8             | 1.7        | 11.4       | 10.0       |
| On Semiconductor              | ON US     | n/a    | 72.68                   | n/a             | n/a           | 31,269        | 14.2           | 18.0       | 30.1          | 19.9       | 3.9             | 3.4        | 10.0       | 12.2       |
| SMIC                          | 688981 CH | n/a    | 46.16                   | n/a             | n/a           | 25,598        | 61.6           | 141.3      | 4.2           | 1.9        | 2.6             | 2.4        | 12.8       | 12.5       |
| Regional average              |           |        |                         |                 |               | 988,874       | 24.0           | 37.5       | 17.8          | 12.3       | 3.1             | 2.8        | 10.3       | 10.8       |
| Overall average               |           |        |                         |                 |               | 1,021,929     | 24.1           | 31.8       | 16.0          | 13.4       | 3.4             | 3.3        | 12.9       | 13.3       |

Sources: Bloomberg; FSSIA estimates

## Financial Statements

### KCE Electronics

| Profit and Loss (THB m) Year Ending Dec           | 2022         | 2023         | 2024E        | 2025E        | 2026E        |
|---|--------------|--------------|--------------|--------------|--------------|
| Revenue   | 18,456       | 16,344       | 16,483       | 18,214       | 19,707       |
| Cost of goods sold                                | (14,254)     | (12,941)     | (12,428)     | (13,697)     | (14,820)     |
| <b>Gross profit</b>                               | <b>4,202</b> | <b>3,403</b> | <b>4,055</b> | <b>4,517</b> | <b>4,887</b> |
| Other operating income                            | 224          | 190          | 206          | 219          | 236          |
| Operating costs                                   | (1,919)      | (1,774)      | (1,780)      | (1,967)      | (2,128)      |
| <b>Operating EBITDA</b>                           | <b>3,622</b> | <b>2,944</b> | <b>3,706</b> | <b>4,177</b> | <b>4,524</b> |
| Depreciation                                      | (1,114)      | (1,126)      | (1,226)      | (1,409)      | (1,529)      |
| Goodwill amortisation                             | 0            | 0            | 0            | 0            | 0            |
| <b>Operating EBIT</b>                             | <b>2,508</b> | <b>1,818</b> | <b>2,481</b> | <b>2,768</b> | <b>2,995</b> |
| Net financing costs                               | (72)         | (104)        | (64)         | (104)        | (117)        |
| Associates  | 19           | 14           | 19           | 19           | 21           |
| Recurring non-operating income                    | 19           | 14           | 19           | 19           | 21           |
| Non-recurring items                               | 36           | 150          | 115          | 0            | 0            |
| <b>Profit before tax</b>                          | <b>2,490</b> | <b>1,879</b> | <b>2,551</b> | <b>2,684</b> | <b>2,899</b> |
| Tax   | (144)        | (131)        | (145)        | (133)        | (144)        |
| <b>Profit after tax</b>                           | <b>2,347</b> | <b>1,747</b> | <b>2,406</b> | <b>2,551</b> | <b>2,755</b> |
| Minority interests                                | (29)         | (28)         | (25)         | (27)         | (30)         |
| Preferred dividends                               | 0            | 0            | 0            | 0            | 0            |
| Other items                                       | -            | -            | -            | -            | -            |
| <b>Reported net profit</b>                        | <b>2,317</b> | <b>1,720</b> | <b>2,381</b> | <b>2,524</b> | <b>2,725</b> |
| <b>Non-recurring items &amp; goodwill (net)</b>   | <b>(36)</b>  | <b>(150)</b> | <b>(115)</b> | <b>0</b>     | <b>0</b>     |
| <b>Recurring net profit</b>                       | <b>2,281</b> | <b>1,569</b> | <b>2,266</b> | <b>2,524</b> | <b>2,725</b> |
| <b>Per share (THB)</b>                            |              |              |              |              |              |
| Recurring EPS *                                   | 1.93         | 1.33         | 1.92         | 2.13         | 2.31         |
| Reported EPS                                      | 1.96         | 1.45         | 2.01         | 2.13         | 2.31         |
| DPS   | 1.60         | 1.11         | 1.51         | 1.60         | 1.73         |
| Diluted shares (used to calculate per share data) | 1,182        | 1,182        | 1,182        | 1,182        | 1,182        |
| <b>Growth</b>                                     |              |              |              |              |              |
| Revenue (%)                                       | 23.6         | (11.4)       | 0.9          | 10.5         | 8.2          |
| Operating EBITDA (%)                              | 1.8          | (18.7)       | 25.9         | 12.7         | 8.3          |
| Operating EBIT (%)                                | (0.5)        | (27.5)       | 36.4         | 11.6         | 8.2          |
| Recurring EPS (%)                                 | 1.6          | (31.2)       | 44.4         | 11.4         | 8.0          |
| Reported EPS (%)                                  | (4.8)        | (25.8)       | 38.5         | 6.0          | 8.0          |
| <b>Operating performance</b>                      |              |              |              |              |              |
| Gross margin inc. depreciation (%)                | 22.8         | 20.8         | 24.6         | 24.8         | 24.8         |
| Gross margin exc. depreciation (%)                | 28.8         | 27.7         | 32.0         | 32.5         | 32.6         |
| Operating EBITDA margin (%)                       | 19.6         | 18.0         | 22.5         | 22.9         | 23.0         |
| Operating EBIT margin (%)                         | 13.6         | 11.1         | 15.1         | 15.2         | 15.2         |
| Net margin (%)                                    | 12.4         | 9.6          | 13.7         | 13.9         | 13.8         |
| Effective tax rate (%)                            | 5.8          | 7.0          | 5.7          | 5.0          | 5.0          |
| Dividend payout on recurring profit (%)           | 82.9         | 83.3         | 78.8         | 75.0         | 75.0         |
| Interest cover (X)                                | 35.0         | 17.7         | 39.3         | 26.9         | 25.7         |
| Inventory days                                    | 135.4        | 134.4        | 117.3        | 106.3        | 107.3        |
| Debtor days                                       | 91.9         | 103.6        | 98.5         | 92.7         | 91.4         |
| Creditor days                                     | 104.1        | 92.3         | 88.8         | 90.6         | 96.5         |
| Operating ROIC (%)                                | 13.4         | 10.0         | 14.3         | 14.5         | 14.1         |
| ROIC (%)  | 12.6         | 9.4          | 13.4         | 13.7         | 13.4         |
| ROE (%)   | 17.0         | 11.6         | 16.2         | 17.3         | 17.9         |
| ROA (%)   | 11.0         | 8.4          | 12.1         | 12.7         | 12.7         |

\* Pre-exceptional, pre-goodwill and fully diluted

| Revenue by Division (THB m) | 2022   | 2023   | 2024E  | 2025E  | 2026E  |
|-----------------------------|--------|--------|--------|--------|--------|
| PCB                         | 15,134 | 13,554 | 13,798 | 15,358 | 16,727 |
| Non PCB                     | 3,323  | 2,790  | 2,685  | 2,856  | 2,980  |

Sources: KCE Electronics; FSSIA estimates

## Financial Statements

### KCE Electronics

| Cash Flow (THB m) Year Ending Dec | 2022           | 2023           | 2024E          | 2025E          | 2026E          |
|-----------------------------------|----------------|----------------|----------------|----------------|----------------|
| Recurring net profit              | 2,281          | 1,569          | 2,266          | 2,524          | 2,725          |
| Depreciation                      | 1,114          | 1,126          | 1,226          | 1,409          | 1,529          |
| Associates & minorities           | -              | -              | -              | -              | -              |
| Other non-cash items              | (19)           | (14)           | (19)           | (19)           | (21)           |
| Change in working capital         | (1,186)        | 832            | 228            | 204            | (392)          |
| <b>Cash flow from operations</b>  | <b>2,191</b>   | <b>3,513</b>   | <b>3,701</b>   | <b>4,117</b>   | <b>3,841</b>   |
| Capex - maintenance               | -              | -              | -              | -              | -              |
| Capex - new investment            | (993)          | (402)          | (2,000)        | (3,660)        | (2,400)        |
| Net acquisitions & disposals      | -              | -              | -              | -              | -              |
| Other investments (net)           | 121            | 76             | 6              | (12)           | (10)           |
| <b>Cash flow from investing</b>   | <b>(872)</b>   | <b>(325)</b>   | <b>(1,994)</b> | <b>(3,672)</b> | <b>(2,410)</b> |
| Dividends paid                    | (2,322)        | (1,419)        | (1,786)        | (1,893)        | (2,044)        |
| Equity finance                    | 10             | 4              | 0              | 0              | 0              |
| Debt finance                      | 173            | (1,150)        | (39)           | 781            | 409            |
| Other financing cash flows        | (2)            | (1)            | (1)            | (1)            | (1)            |
| <b>Cash flow from financing</b>   | <b>(2,141)</b> | <b>(2,566)</b> | <b>(1,825)</b> | <b>(1,113)</b> | <b>(1,637)</b> |
| Non-recurring cash flows          | -              | -              | -              | -              | -              |
| Other adjustments                 | 0              | 0              | 0              | 0              | 0              |
| <b>Net other adjustments</b>      | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>0</b>       | <b>0</b>       |
| <b>Movement in cash</b>           | <b>(821)</b>   | <b>622</b>     | <b>(118)</b>   | <b>(668)</b>   | <b>(206)</b>   |
| Free cash flow to firm (FCFF)     | 1,391.42       | 3,291.81       | 1,771.32       | 548.61         | 1,547.75       |
| Free cash flow to equity (FCFE)   | 1,490.66       | 2,036.57       | 1,667.94       | 1,224.75       | 1,837.87       |

#### Per share (THB)

|                               |      |      |      |      |      |
|-------------------------------|------|------|------|------|------|
| FCFF per share                | 1.18 | 2.78 | 1.50 | 0.46 | 1.31 |
| FCFE per share                | 1.26 | 1.72 | 1.41 | 1.04 | 1.55 |
| Recurring cash flow per share | 2.86 | 2.27 | 2.94 | 3.31 | 3.58 |

| Balance Sheet (THB m) Year Ending Dec             | 2022          | 2023          | 2024E         | 2025E         | 2026E         |
|---|---------------|---------------|---------------|---------------|---------------|
| Tangible fixed assets (gross)                     | 19,658        | 18,912        | 20,912        | 24,572        | 26,972        |
| Less: Accumulated depreciation                    | (10,779)      | (10,758)      | (11,984)      | (13,392)      | (14,921)      |
| <b>Tangible fixed assets (net)</b>                | <b>8,878</b>  | <b>8,154</b>  | <b>8,928</b>  | <b>11,180</b> | <b>12,051</b> |
| <b>Intangible fixed assets (net)</b>              | <b>323</b>    | <b>284</b>    | <b>284</b>    | <b>284</b>    | <b>284</b>    |
| Long-term financial assets                        | -             | -             | -             | -             | -             |
| Invest. in associates & subsidiaries              | 575           | 554           | 554           | 554           | 554           |
| Cash & equivalents                                | 1,145         | 1,767         | 1,649         | 981           | 775           |
| A/C receivable                                    | 4,900         | 4,379         | 4,516         | 4,741         | 5,129         |
| Inventories                                       | 4,908         | 3,793         | 3,405         | 3,753         | 4,060         |
| Other current assets                              | 127           | 141           | 148           | 164           | 177           |
| <b>Current assets</b>                             | <b>11,079</b> | <b>10,079</b> | <b>9,718</b>  | <b>9,638</b>  | <b>10,142</b> |
| Other assets                                      | 138           | 122           | 115           | 127           | 138           |
| <b>Total assets</b>                               | <b>20,993</b> | <b>19,193</b> | <b>19,600</b> | <b>21,783</b> | <b>23,169</b> |
| Common equity                                     | 13,389        | 13,689        | 14,284        | 14,915        | 15,596        |
| Minorities etc.                                   | 56            | 61            | 60            | 58            | 57            |
| <b>Total shareholders' equity</b>                 | <b>13,445</b> | <b>13,749</b> | <b>14,343</b> | <b>14,973</b> | <b>15,653</b> |
| Long term debt                                    | 910           | 515           | 525           | 1,058         | 1,350         |
| Other long-term liabilities                       | 395           | 367           | 330           | 382           | 414           |
| <b>Long-term liabilities</b>                      | <b>1,305</b>  | <b>882</b>    | <b>855</b>    | <b>1,440</b>  | <b>1,764</b>  |
| A/C payable                                       | 3,249         | 2,728         | 2,724         | 3,377         | 3,654         |
| Short term debt                                   | 2,915         | 1,748         | 1,596         | 1,902         | 1,999         |
| Other current liabilities                         | 80            | 85            | 82            | 91            | 99            |
| <b>Current liabilities</b>                        | <b>6,244</b>  | <b>4,562</b>  | <b>4,402</b>  | <b>5,370</b>  | <b>5,752</b>  |
| <b>Total liabilities and shareholders' equity</b> | <b>20,993</b> | <b>19,193</b> | <b>19,600</b> | <b>21,783</b> | <b>23,169</b> |
| Net working capital                               | 6,606         | 5,499         | 5,263         | 5,189         | 5,614         |
| Invested capital                                  | 16,520        | 14,613        | 15,145        | 17,334        | 18,641        |

\* Includes convertibles and preferred stock which is being treated as debt

#### Per share (THB)

|                               |       |       |       |       |       |
|-------------------------------|-------|-------|-------|-------|-------|
| Book value per share          | 11.33 | 11.58 | 12.08 | 12.62 | 13.19 |
| Tangible book value per share | 11.06 | 11.34 | 11.84 | 12.38 | 12.95 |

#### Financial strength

|                           |      |      |      |      |      |
|---------------------------|------|------|------|------|------|
| Net debt/equity (%)       | 19.9 | 3.6  | 3.3  | 13.2 | 16.4 |
| Net debt/total assets (%) | 12.8 | 2.6  | 2.4  | 9.1  | 11.1 |
| Current ratio (x)         | 1.8  | 2.2  | 2.2  | 1.8  | 1.8  |
| CF interest cover (x)     | 35.5 | 24.5 | 58.6 | 48.2 | 37.2 |

| Valuation                                 | 2022        | 2023        | 2024E       | 2025E       | 2026E       |
|---|-------------|-------------|-------------|-------------|-------------|
| <b>Recurring P/E (x) *</b>                | <b>22.5</b> | <b>32.8</b> | <b>22.7</b> | <b>20.4</b> | <b>18.9</b> |
| <b>Recurring P/E @ target price (x) *</b> | <b>25.9</b> | <b>37.7</b> | <b>26.1</b> | <b>23.4</b> | <b>21.7</b> |
| Reported P/E (x)                          | 22.2        | 29.9        | 21.6        | 20.4        | 18.9        |
| Dividend yield (%)                        | 3.7         | 2.5         | 3.5         | 3.7         | 4.0         |
| Price/book (x)                            | 3.8         | 3.8         | 3.6         | 3.4         | 3.3         |
| Price/tangible book (x)                   | 3.9         | 3.8         | 3.7         | 3.5         | 3.4         |
| EV/EBITDA (x) **                          | 15.0        | 17.7        | 14.0        | 12.8        | 11.9        |
| EV/EBITDA @ target price (x) **           | 17.1        | 20.3        | 16.1        | 14.6        | 13.6        |
| EV/invested capital (x)                   | 3.3         | 3.6         | 3.4         | 3.1         | 2.9         |

\* Pre-exceptional, pre-goodwill and fully diluted \*\* EBITDA includes associate income and recurring non-operating income

Sources: KCE Electronics; FSSIA estimates

# KCE Electronics PCL (KCE TB)

FSSIA ESG rating

★ ★ ★

Exhibit 14: FSSIA ESG score implication

45.77 /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 15: 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: SETTRADE.com; FSSIA's compilation

Exhibit 16: ESG score by Bloomberg

| FY ending Dec 31                             | FY 2015 | FY 2016 | FY 2017 | FY 2018 | FY 2019 | FY 2020 | FY 2021 | FY 2022 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| ESG financial materiality scores - ESG score | 1.34    | 1.35    | 1.35    | 1.36    | 1.37    | 1.70    | 2.06    | 2.16    |
| BESG environmental pillar score              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 1.00    | 1.00    |
| BESG social pillar score                     | 0.80    | 0.80    | 0.80    | 0.80    | 0.80    | 1.44    | 1.45    | 1.58    |
| BESG governance pillar score                 | 4.64    | 4.67    | 4.67    | 4.77    | 4.83    | 4.83    | 4.71    | 4.90    |
| ESG disclosure score                         | 40.30   | 41.69   | 40.30   | 40.64   | 46.82   | 53.50   | 54.91   | 52.98   |
| Environmental disclosure score               | 19.21   | 19.21   | 19.21   | 19.21   | 33.59   | 49.50   | 53.76   | 52.13   |
| Social disclosure score                      | 20.44   | 24.61   | 20.44   | 21.46   | 25.63   | 29.78   | 29.78   | 25.60   |
| Governance disclosure score                  | 81.10   | 81.10   | 81.10   | 81.10   | 81.10   | 81.10   | 81.10   | 81.10   |
| Environmental                                |         |         |         |         |         |         |         |         |
| Emissions reduction initiatives              | No      | No      | No      | No      | No      | No      | No      | Yes     |
| Climate change policy                        | No      | No      | No      | No      | No      | No      | No      | No      |
| Climate change opportunities discussed       | No      | No      | No      | No      | No      | No      | No      | No      |
| Risks of climate change discussed            | No      | No      | No      | No      | No      | No      | No      | No      |
| GHG scope 1                                  | —       | —       | —       | —       | —       | —       | 3       | 3       |
| GHG scope 2 location-based                   | —       | —       | —       | —       | —       | —       | 64      | 70      |
| GHG Scope 3                                  | —       | —       | —       | —       | —       | —       | —       | —       |
| Carbon per unit of production                | —       | —       | —       | —       | —       | —       | 4       | 4       |
| Biodiversity policy                          | No      | No      | No      | No      | No      | No      | No      | No      |
| Energy efficiency policy                     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     | Yes     |
| Total energy consumption                     | —       | —       | —       | —       | —       | 121     | 152     | 163     |
| Renewable energy use                         | —       | —       | —       | —       | —       | 1       | 2       | 4       |
| Electricity used                             | —       | —       | —       | —       | —       | 112     | 140     | 152     |
| Fuel used - natural gas                      | —       | —       | —       | —       | —       | 850     | 1,100   | 1,130   |

Sources: Bloomberg; FSSIA's compilation

**Exhibit 17: 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       | No        | No        | No        | No        | No        | No        |
| Waste reduction policy                        | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Hazardous waste                               | 6        | 8        | 9         | 12        | 8         | 3         | 5         | —         |
| Total waste                                   | 7        | 11       | 13        | 15        | 12        | 13        | 17        | 20        |
| Waste recycled                                | —        | —        | —         | —         | —         | 11        | 15        | 16        |
| Waste sent to landfills                       | —        | —        | —         | —         | —         | 2         | 3         | 3         |
| Environmental supply chain management         | No       | No       | No        | No        | Yes       | Yes       | Yes       | Yes       |
| Water policy                                  | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Water consumption                             | —        | —        | —         | —         | —         | 1,650     | 2,232     | 2,612     |
| <b>Social</b>                                 |          |          |           |           |           |           |           |           |
| Human rights policy                           | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Policy against child labor                    | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Quality assurance and recall policy           | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Consumer data protection policy               | No       | No       | No        | Yes       | Yes       | Yes       | Yes       | Yes       |
| Equal opportunity policy                      | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Gender pay gap breakout                       | No       | No       | No        | No        | No        | No        | No        | No        |
| Pct women in workforce                        | —        | —        | —         | —         | —         | 52        | 46        | 52        |
| Pct disabled in workforce                     | —        | —        | —         | —         | —         | —         | —         | —         |
| Business ethics policy                        | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Anti-bribery ethics policy                    | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Health and safety policy                      | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Lost time incident rate - employees           | —        | —        | —         | —         | —         | —         | —         | 1         |
| Total recordable incident rate - employees    | 3        | 1        | 1         | 1         | 1         | 1         | 1         | —         |
| Training policy                               | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| Fair remuneration policy                      | No       | No       | No        | No        | No        | No        | No        | No        |
| Number of employees – CSR                     | 2,388    | 2,696    | 1,021     | 1,042     | 1,019     | 984       | 974       | 1,049     |
| Employee turnover pct                         | —        | —        | —         | —         | —         | 11        | 10        | 11        |
| Total hours spent by firm - employee training | 176,855  | 198,156  | 187,310   | 229,906   | 83,545    | 33,247    | 44,164    | 67,795    |
| Social supply chain management                | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| <b>Governance</b>                             |          |          |           |           |           |           |           |           |
| <b>Board size</b>                             | <b>9</b> | <b>9</b> | <b>9</b>  | <b>9</b>  | <b>9</b>  | <b>9</b>  | <b>9</b>  | <b>9</b>  |
| <b>No. of independent directors (ID)</b>      | <b>3</b> | <b>3</b> | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  |
| No. of women on board                         | 4        | 3        | 3         | 3         | 3         | 3         | 3         | 3         |
| No. of non-executive directors on board       | 6        | 6        | 6         | 6         | 6         | 6         | 6         | 6         |
| Company conducts board evaluations            | Yes      | Yes      | Yes       | Yes       | Yes       | Yes       | Yes       | Yes       |
| No. of board meetings for the year            | 12       | 12       | 12        | 12        | 12        | 13        | 12        | 12        |
| Board meeting attendance pct                  | 99       | 97       | 97        | 94        | 95        | 96        | 99        | 99        |
| Board duration (years)                        | 3        | 3        | 3         | 3         | 3         | 3         | 3         | 3         |
| Director share ownership guidelines           | No       | No       | No        | No        | No        | No        | No        | No        |
| Age of the youngest director                  | 35       | 36       | 37        | 38        | 39        | 40        | 41        | 42        |
| Age of the oldest director                    | 78       | 79       | 80        | 81        | 82        | 74        | 75        | 76        |
| <b>No. of executives / company managers</b>   | <b>9</b> | <b>9</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>10</b> | <b>11</b> |
| No. of female executives                      | 2        | 2        | 2         | 3         | 3         | 3         | 3         | 3         |
| Executive share ownership guidelines          | No       | No       | No        | No        | No        | No        | No        | No        |
| <b>Size of audit committee</b>                | <b>3</b> | <b>3</b> | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  |
| No. of ID on audit committee                  | 3        | 3        | 3         | 3         | 3         | 3         | 3         | 3         |
| Audit committee meetings                      | 4        | 4        | 5         | 5         | 6         | 5         | 4         | 5         |
| Audit meeting attendance %                    | 100      | 92       | 100       | 100       | 83        | 100       | 75        | 93        |
| <b>Size of compensation committee</b>         | <b>3</b> | <b>3</b> | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  |
| No. of ID on compensation committee           | 2        | 2        | 2         | 2         | 2         | 2         | 2         | 2         |
| No. of compensation committee meetings        | 2        | 2        | 2         | 2         | 3         | 2         | 3         | 1         |
| Compensation meeting attendance %             | 100      | 100      | 100       | 83        | 89        | 100       | 100       | 100       |
| <b>Size of nomination committee</b>           | <b>3</b> | <b>3</b> | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  | <b>3</b>  |
| No. of nomination committee meetings          | 2        | 2        | 2         | 2         | 3         | 2         | 3         | 1         |
| Nomination meeting attendance %               | 100      | 100      | 100       | 83        | 89        | 100       | 100       | 100       |
| <b>Sustainability governance</b>              |          |          |           |           |           |           |           |           |
| Verification type                             | No       | No       | No        | No        | No        | No        | No        | No        |

Sources: Bloomberg; FSSIA's compilation

## Disclaimer for ESG scoring

| ESG score   | Methodology  | Rating  |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
|---|--|---|---|--------------|----------------|---|-----------|-------------|----------|-------------|------------|-------------|-----------------|---|-----------|-------------|----------|-------------|------------|-------------|-----------------|---|
| The Dow Jones Sustainability Indices ( <a href="#">DJSI</a> ) By S&P Global                                       | The DJSI World applies a transparent, rules-based component selection process based on the companies' Total Sustainability Scores resulting from the annual S&P Global Corporate Sustainability Assessment (CSA). Only the top-ranked companies within each industry are selected for inclusion.   | Be a member and invited to the annual S&P Global Corporate Sustainability Assessment (CSA) for DJSI. Companies with an S&P Global ESG Score of less than 45% of the S&P Global ESG Score of the highest scoring company are disqualified. The constituents of the DJSI indices are selected from the Eligible Universe.   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| Sustainability Investment List ( <a href="#">THSI</a> ) by The Stock Exchange of Thailand ( <a href="#">SET</a> ) | THSI quantifies responsibility in Environmental and Social issues by managing business with transparency in Governance, updated annually. Candidates must pass the preemptive criteria, with two crucial conditions: 1) no irregular trading of the board members and executives; and 2) free float of >150 shareholders, and combined holding must be >15% of paid-up capital. Some key disqualifying criteria include: 1) CG score of below 70%; 2) independent directors and free float violation; 3) executives' wrongdoing related to CG, social & environmental impacts; 4) equity in negative territory; and 5) earnings in red for > 3 years in the last 5 years.  | To be eligible for <a href="#">THSI inclusion</a> , 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.<br><a href="#">SETTHSI Index</a> 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. |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <b>CG Score</b> by Thai Institute of Directors Association (Thai IOD)   | An indicator of CG strength in sustainable development, measured annually by the Thai IOD, with support from the Stock Exchange of Thailand (SET). The results are from the perspective of a third party, not an evaluation of operations.   | Scores are rated in six categories: 5 for Excellent (90-100), 4 for Very Good (80-89), 3 for Good (70-79), 2 for Fair (60-69), 1 for Pass (60-69), and not rated for scores below 50. Weightings include: 1) the rights; 2) and equitable treatment of shareholders (weight 25% combined); 3) the role of stakeholders (25%); 4) disclosure & transparency (15%); and 5) board responsibilities (35%).  |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <b>AGM level</b> 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) advance circulation of sufficient information for voting; and 2) facilitating how voting rights can be exercised. The second assesses 1) the ease of attending meetings; 2) transparency and verifiability; and 3) openness for Q&amp;A. The third involves the meeting minutes that should contain discussion issues, resolutions and voting results.)</i>  | The scores are classified into four categories: 5 for Excellent (100), 4 for Very Good (90-99), 3 for Fair (80-89), and not rated for scores below 79.  |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <a href="#">Thai CAC</a> By Thai Private Sector Collective Action Against Corruption (CAC)                        | The core elements of the Checklist include corruption risk assessment, establishment of key controls, and the monitoring and developing of policies. The Certification is good for three years.<br><i>(Companies deciding to become a CAC certified member start by submitting a Declaration of Intent to kick off an 18-month deadline to submit the CAC Checklist for Certification, including risk assessment, in place of policy and control, training of managers and employees, establishment of whistleblowing channels, and communication of policies to all stakeholders.)</i>  | The document will be reviewed by a committee of nine professionals. A passed Checklist will move for granting certification by the CAC Council approvals whose members are twelve highly respected individuals in professionalism and ethical achievements.   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <a href="#">Morningstar Sustainabilitys</a>   | The Sustainabilitys' ESG risk rating provides an overall company score based on an assessment of how much of a company's exposure to ESG risk is unmanaged. <i>Sources to be reviewed include corporate publications and regulatory filings, news and other media, NGO reports/websites, multi-sector information, company feedback, ESG controversies, issuer feedback on draft ESG reports, and quality &amp; peer reviews.</i>  | A company's ESG risk rating score is the sum of unmanaged risk. The more risk is unmanaged, the higher ESG risk is scored. <table><tr><th>NEGL</th><th>Low</th><th>Medium</th><th>High</th><th>Severe</th></tr><tr><td>0-10</td><td>10-20</td><td>20-30</td><td>30-40</td><td>40+</td></tr></table>   | NEGL  | Low          | Medium         | High  | Severe    | 0-10        | 10-20    | 20-30       | 30-40      | 40+         |                 |   |           |             |          |             |            |             |                 |   |
| NEGL  | Low  | Medium  | High  | Severe       |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| 0-10  | 10-20  | 20-30   | 30-40   | 40+          |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <a href="#">ESG Book</a>  | The ESG score identifies sustainable companies that are better positioned to outperform over the long term. The methodology considers the principle of financial materiality including information that significantly helps explain future risk-adjusted performance. Materiality is applied by over-weighting features with higher materiality and rebalancing these weights on a rolling quarterly basis.  | The total ESG score is calculated as a weighted sum of the features scores using materiality-based weights. The score is scaled between 0 and 100 with higher scores indicating better performance.   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <a href="#">MSCI</a>  | MSCI ESG ratings aim to measure a company's management of financially relevant ESG risks and opportunities. It uses a rules-based methodology to identify industry leaders and laggards according to their exposure to ESG risks and how well they manage those risks relative to peers. <table><tr><td><b>AAA</b></td><td>8.571-10.000</td><td rowspan="3"><b>Leader:</b></td><td rowspan="3">leading its industry in managing the most significant ESG risks and opportunities</td></tr><tr><td><b>AA</b></td><td>7.143-8.570</td></tr><tr><td><b>A</b></td><td>5.714-7.142</td></tr><tr><td><b>BBB</b></td><td>4.286-5.713</td><td rowspan="3"><b>Average:</b></td><td rowspan="3">a mixed or unexceptional track record of managing the most significant ESG risks and opportunities relative to industry peers</td></tr><tr><td><b>BB</b></td><td>2.857-4.285</td></tr><tr><td><b>B</b></td><td>1.429-2.856</td></tr><tr><td><b>CCC</b></td><td>0.000-1.428</td><td><b>Laggard:</b></td><td>lagging its industry based on its high exposure and failure to manage significant ESG risks</td></tr></table> |   | <b>AAA</b>  | 8.571-10.000 | <b>Leader:</b> | leading its industry in managing the most significant ESG risks and opportunities | <b>AA</b> | 7.143-8.570 | <b>A</b> | 5.714-7.142 | <b>BBB</b> | 4.286-5.713 | <b>Average:</b> | a mixed or unexceptional track record of managing the most significant ESG risks and opportunities relative to industry peers | <b>BB</b> | 2.857-4.285 | <b>B</b> | 1.429-2.856 | <b>CCC</b> | 0.000-1.428 | <b>Laggard:</b> | lagging its industry based on its high exposure and failure to manage significant ESG risks |
| <b>AAA</b>  | 8.571-10.000   | <b>Leader:</b>  | leading its industry in managing the most significant ESG risks and opportunities   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <b>AA</b>   | 7.143-8.570  |   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <b>A</b>  | 5.714-7.142  |   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <b>BBB</b>  | 4.286-5.713  | <b>Average:</b>   | a mixed or unexceptional track record of managing the most significant ESG risks and opportunities relative to industry peers |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <b>BB</b>   | 2.857-4.285  |   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <b>B</b>  | 1.429-2.856  |   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <b>CCC</b>  | 0.000-1.428  | <b>Laggard:</b>   | lagging its industry based on its high exposure and failure to manage significant ESG risks                                   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <a href="#">Moody's ESG solutions</a>   | Moody's assesses the degree to which companies take into account ESG objectives in the definition and implementation of their strategy policies. It believes that a company integrating ESG factors into its business model and relatively outperforming its peers is better positioned to mitigate risks and create sustainable value for shareholders over the medium to long term.  |   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <a href="#">Refinitiv ESG rating</a>  | Designed to transparently and objectively measure a company's relative ESG performance, commitment and effectiveness across 10 main themes, based on publicly available and auditable data. The score ranges from 0 to 100 on relative ESG performance and insufficient degree of transparency in reporting material ESG data publicly. <i>(Score ratings are 0 to 25 = poor; &gt;25 to 50 = satisfactory; &gt;50 to 75 = good; and &gt;75 to 100 = excellent.)</i>  |   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <a href="#">S&amp;P Global</a>  | The S&P Global ESG Score is a relative score measuring a company's performance on and management of ESG risks, opportunities, and impacts compared to its peers within the same industry classification. The score ranges from 0 to 100.   |   |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| <b>Bloomberg</b>  | ESG Score  | Bloomberg score evaluating the company's aggregated Environmental, Social and Governance (ESG) performance. The score is based on Bloomberg's view of ESG financial materiality. The score is a weighted generalized mean (power mean) of Pillar Scores, where the weights are determined by the pillar priority ranking. Values range from 0 to 10; 10 is the best.  |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |
| Bloomberg   | ESG Disclosure Score   | Disclosure of a company's ESG used for Bloomberg ESG score. The score ranges from 0 for none to 100 for disclosure of every data point, measuring the amount of ESG data reported publicly, and not the performance on any data point.  |   |              |                |   |           |             |          |             |            |             |                 |   |           |             |          |             |            |             |                 |   |

[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

Sureporn Teewasuwet FSS International Investment Advisory Securities Co., Ltd

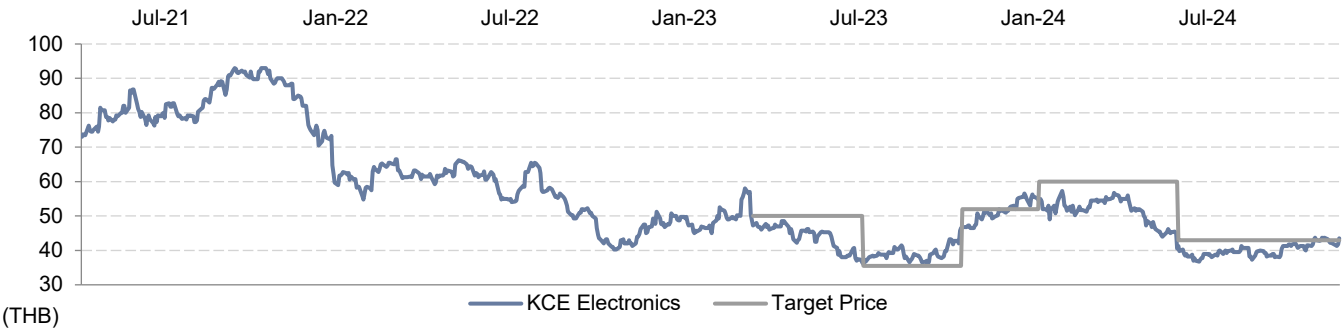
The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s)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

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History of change in investment rating and/or target price

KCE Electronics (KCE TB)



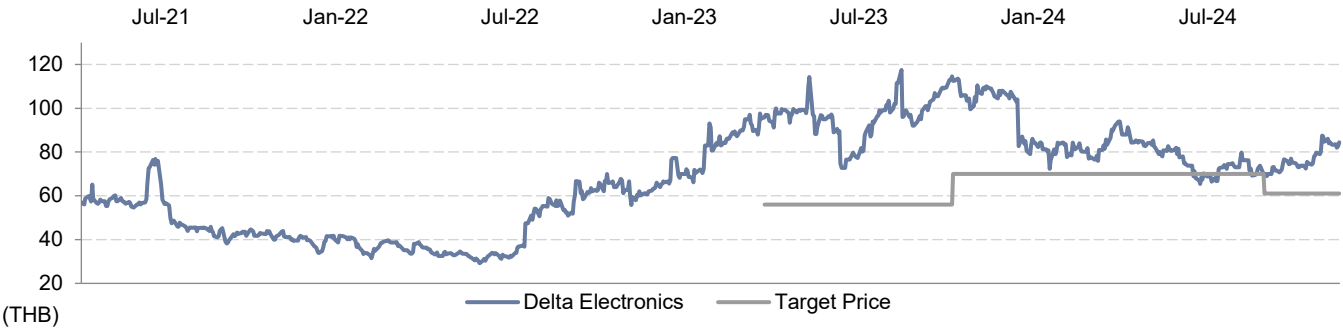
| Date        | Rating | Target price | Date        | Rating | Target price | Date        | Rating | Target price |
|-------------|--------|--------------|-------------|--------|--------------|-------------|--------|--------------|
| 09-Feb-2023 | HOLD   | 50.00        | 10-Aug-2023 | BUY    | 52.00        | 14-Feb-2024 | HOLD   | 43.00        |
| 16-May-2023 | HOLD   | 35.50        | 16-Oct-2023 | HOLD   | 60.00        |             |        |              |

Sureporn Teewasuwet started covering this stock from 09-Feb-2023

Price and TP are in local currency

Source: FSSIA estimates

Delta Electronics (DELTA TB)



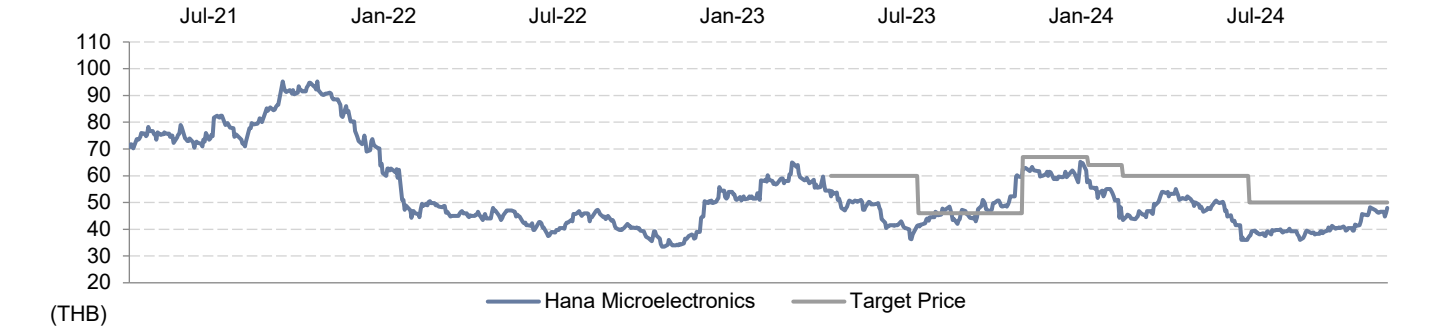
| Date        | Rating | Target price | Date        | Rating | Target price | Date        | Rating | Target price |
|-------------|--------|--------------|-------------|--------|--------------|-------------|--------|--------------|
| 17-Feb-2023 | REDUCE | 56.00        | 02-Aug-2023 | REDUCE | 70.00        | 29-Apr-2024 | REDUCE | 61.00        |

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

Price and TP are in local currency

Source: FSSIA estimates

Hana Microelectronics (HANA TB)



| Date        | Rating | Target price | Date        | Rating | Target price | Date        | Rating | Target price |
|-------------|--------|--------------|-------------|--------|--------------|-------------|--------|--------------|
| 07-Mar-2023 | HOLD   | 60.00        | 21-Aug-2023 | BUY    | 67.00        | 16-Nov-2023 | BUY    | 60.00        |
| 22-May-2023 | BUY    | 46.00        | 17-Oct-2023 | BUY    | 64.00        | 05-Mar-2024 | BUY    | 50.00        |

Sureeporn Teewasuwet started covering this stock from 07-Mar-2023

Price and TP are in local currency

Source: FSSIA estimates

| Company               | Ticker   | Price     | Rating | Valuation & Risks  |
|-----------------------|----------|-----------|--------|--|
| KCE Electronics       | KCE TB   | THB 43.50 | BUY    | Downside risks to our P/E-based TP include 1) slower-than-expected global economic and car sales recoveries; 2) lower-than-expected decrease in raw material costs; 3) a weaker-than-expected in THB; and 4) a minimum wage increase or a labour shortage. |
| Delta Electronics     | DELTA TB | THB 84.50 | 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.  |
| Hana Microelectronics | HANA TB  | THB 48.00 | BUY    | Downside risks to our P/E-based TP include 1) a slower-than-expected recovery in the global economy and purchasing power, 2) higher-than-expected raw material costs, 3) Baht strength, and 4) higher minimum wage and labor shortages.                    |

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 04-Jul-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.