

ELECTRICAL AND ELECTRONICS (E&E) INDUSTRY

A. INTRODUCTION

- The electrical and electronics (E&E) industry is a key driver of Malaysia's industrial development and contributes significantly to GDP growth, export earnings, investment and employment.
- Malaysia is a key player in the fast expanding E&E market, its major export destinations include China, US, Singapore, Hong Kong and Japan.
- The E&E industry is targeted under the National Key Economic Areas (NKEA) to gear the nation towards high-income economy by focusing on high-value and high-growth manufacturing activities.

B. BREAKDOWN BY SUB-SECTORS

- The E&E industry in Malaysia can be classified into four sub-sectors namely, electronic components, consumer electronics, industrial electronics, and electrical products.

Structure of E&E Industry

Sectors	Sub-Sectors	Products
Electronics	Components	Semiconductors, passive components, printed circuit boards, metal stamped parts and precision plastic parts
	Consumer	Audio visual products such as television receivers, portable multimedia players (PMP), speakers, cameras and electronic games
	Industrial	Multimedia and information technology products such as computers and computer peripherals, telecommunications equipment and office equipment.
Electrical	Electrical	Boards, panels and consoles, switching apparatus, lamps, air conditioners, vacuum cleaners, ovens, transformers, cables & wires, primary cells & batteries, solar cells and modules

Source: Malaysian Investment Development Authority (MIDA)

- Top 10 E&E Multinational Companies in Malaysia:
 1. Western Digital Group
 2. Panasonic Group
 3. Intel Group
 4. Samsung Group
 5. Flextronics Group
 6. HP Malaysia Manufacturing Sdn. Bhd.
 7. Dyson Manufacturing Sdn. Bhd.
 8. First Solar Malaysia Sdn. Bhd.
 9. Infineon Group In Malaysia
 10. OSRAM Opto Semiconductors Malaysia Sdn. Bhd.

- Top 6 E&E Large Local Companies in Malaysia:
 1. Carsem (M) Sdn. Bhd.
 2. Unisem (M) Sdn. Bhd.
 3. SilTerra Malaysia Sdn. Bhd.
 4. Inari Technology Berhad
 5. Dominant Opto Technologies Sdn.Bhd.
 6. Globetronics Group

C. INVESTMENT

Investments in E&E Industry

Description	2011 (RM Billion)	2012 (RM Billion)	2013 (RM Billion)	2014 (RM Billion)	2015 (RM Billion)	2016 (RM Billion)
No. of Projects Approved	129	112	118	96	93	107
Total Investments	20.1	4.0	9.8	11.1	8.9	9.2
Foreign Investments	18.7	3.3	8.5	10.4	8.2	7.9
Domestic Investments	1.4	0.7	1.3	0.7	0.7	1.3

Source: MIDA

D. INDUSTRIAL PRODUCTION INDEX (IPI)

IPI Performance of Selected E&E Products

Products	2014	2015	2016
E&E Industry	133.8	146.4	156.9
Manufacture of domestic appliances not elsewhere classified	122.0	123.8	131.3
Manufacture of office and accounting machinery & computers and computer peripherals	95.6	96.0	98.1
Manufacture of electric motors, generators and transformers	86.1	105.1	117.6
Electricity distribution and control apparatus	90.9	87.1	86.5
Semiconductors & Electronic Components	157.9	159.4	174.8
Audio & Audio Visual Products	114.8	167.9	172.6
Wires & Cables	145.6	152.3	164.5

Source: DOSM

E. SALES

Sales Performance of Selected E&E Products

Products	2014 (RM Billion)	2015 (RM Billion)	2016 (RM Billion)
E&E Industry	191.4	214.1	232.3
Semiconductors & Electronic Components	95.1	111.5	130.6
Audio & Audio Visual Products	42.2	45.6	42.9
Manufacture of office and accounting machinery & computers and computer peripherals	28.3	28.7	29.8
Wires & cables	10.4	11.5	10.6
Manufacture of domestic appliances not elsewhere classified	4.3	4.26	5.2
Electricity distribution and control apparatus	3.6	3.64	3.8
Manufacture of electric motors, generators and transformers	5.4	6.6	7.0

Source: DOSM

F. EMPLOYMENT

Employment in E&E Industry (Persons)

Products	2014	2015	2016
E&E Industry	317, 806	322,082	322,308
Semiconductors & Electronic Components	149,647	153,809	153,798
Audio & Audio Visual Products	55,599	56,301	54,364
Manufacture of office and accounting machinery & computers and computer peripherals	55,619	54,586	54,836
Wires and cables	15,401	15,473	16,326
Electricity distribution and control apparatus	13,795	13,601	13,939
Manufacture of domestic appliances not elsewhere classified	10,583	11,376	11,893
Manufacture of electric motors, generators and transformers	7,441	7,294	7,678
Other electrical equipment n.e.c.	5,630	5,879	5,532
Accumulators, primary cells and primary batteries	1,990	1,761	1,868

Source: DOSM

G. TRADE PERFORMANCE

Exports of Selected E&E Products

Products	2014 (RM Billion)	2015 (RM Billion)	2016 (RM Billion)
Total Exports	256.14	277.92	287.73
Electronic integrated circuits	92.21	96.38	100.05
Photosensitive semi- conductor devices	11.21	15.32	18.20
Parts for electronic integrated circuits	9.32	9.61	10.23
Parts for diodes, tra nsistors, piezoelectric crystal s & other semicondu ctor devices	5.35	6.78	6.25
Transistors	5.66	5.58	6.17

Source: MATRADE

Imports of Selected E&E Products

Description	2014 (RM Billion)	2015 (RM Billion)	2016 (RM Billion)
Total Imports	190.74	201.32	209.94
Electronic integrate d circuits	59.77	59.91	66.57
Parts for electronic integrated circuits	35.94	36.56	36.63
Parts for diodes, tra n- sistors, piezoelectric crystals & other se miconductor device s	5.02	4.92	5.21
Photosensitive semi- conductor devices	3.11	4.36	3.64
Transistors	2.04	2.32	2.46

Source: MATRADE