

Trusted Power Semiconductor Company, KEC Corporation



KEC is the only comprehensive non-memory semiconductor company in Korea, founded in 1969 and growing alongside the nation's electronics industry.

- Established : September 1969 / Employees : 2,500 (KEC Group) / Revenue : USD 335 million (2024, KEC Group)
- Global Network : HQ , R&D Center (Seoul, KR) / Factory : KR, CN, TH / Sales : 30 entities across 20 countries

KEC supplies power semiconductors to global companies, meeting diverse needs across consumer, automotive, and industrial applications.

- Home Appliance : Samsung, LG, Haier, Midea, SHARP, Panasonic
- Audio & Video : Samsung, LG, SHARP, SONY
- Industrial : Omron, Green Power
- Automotive : HYUNDAI MOBIS & KEFICO / IT : Samsung Electronics, LG Electronics, Apple, Panasonic, Nichicon
- Main Items : Power Management IC, Amplifiers IC, MOSFET, IGBTs, Diodes & Rectifier, Bipolar Junction Transistor

Backed by an R&D center operating since 1984 and a team of around 200 engineers, KEC has earned global trust for its quality, and is committed to customer satisfaction through its own quality assurance system and operating processes.

- Certifications : IATF 16949 (KR, CN, TH), ISO 14001 (KR, CN, TH)
- Customer Approvals (LG, Samsung, SONY, Canon, EPSON, On Semi)
- KEC Quality Assurance System & KECOS (KEC Operating System)

Global Leading Power Semiconductor Company

Beyond Half a Century, Toward a Centennial Company — KEC, a Power Semiconductor Specialist

Profile

Established	September 1969
CEO	Bae Seog-Hong
Key Products	Power Management IC MOSFET, IGBT, Amplifiers IC Diodes & Rectifier Bipolar Junction Transistor
Employees	2,500 Employees (KEC Group)
Revenue	USD 335 million (2024, KEC Group)
Homepage	www.keccorp.com

Future-Oriented Auto & Industry Global Power Semiconductor Company

KEC, established in 1969, is a semiconductor company that has grown alongside Korea's electronics industry.

With a focus on power semiconductors, KEC has long partnered with leading domestic manufacturers in home appliances and automotive sectors. The company is expanding its global presence by increasing exports to China, Japan, and the United States.

As the only mid-sized power semiconductor company in Korea with in-house manufacturing capabilities, KEC continues to enhance both technological and manufacturing competitiveness, striving for advanced product development and quality excellence.

50 Years of Innovation, KEC Timeline

KEC is a semiconductor company that has grown alongside Korea's electronics industry for over half a century.

1969 ~ 1999

Building a Management Foundation and Driving Growth

- **1969** Established as TOSHIBA KOREA (predecessor of KEC)
- **1970** Started production of transistors
- **1974** Renamed to KOREA ELECTRONICS CO., LTD.
- **1975** Began IC assembly production
- **1979** Went public and started semiconductor chip production

2000 ~ 2009

Challenge and Innovation

- **2000** Renamed from 'Korea Electronics Co., Ltd.' to 'KEC'
- **2005** Received the 10th Electronic Component Technology Award
- **2006** Completed construction of MOS FAB Plant in Gumi, Korea
- **2008** Started production of Modules & IGBTs
- **2009** Signed MOU with Seoul Metro for IGBT Module development

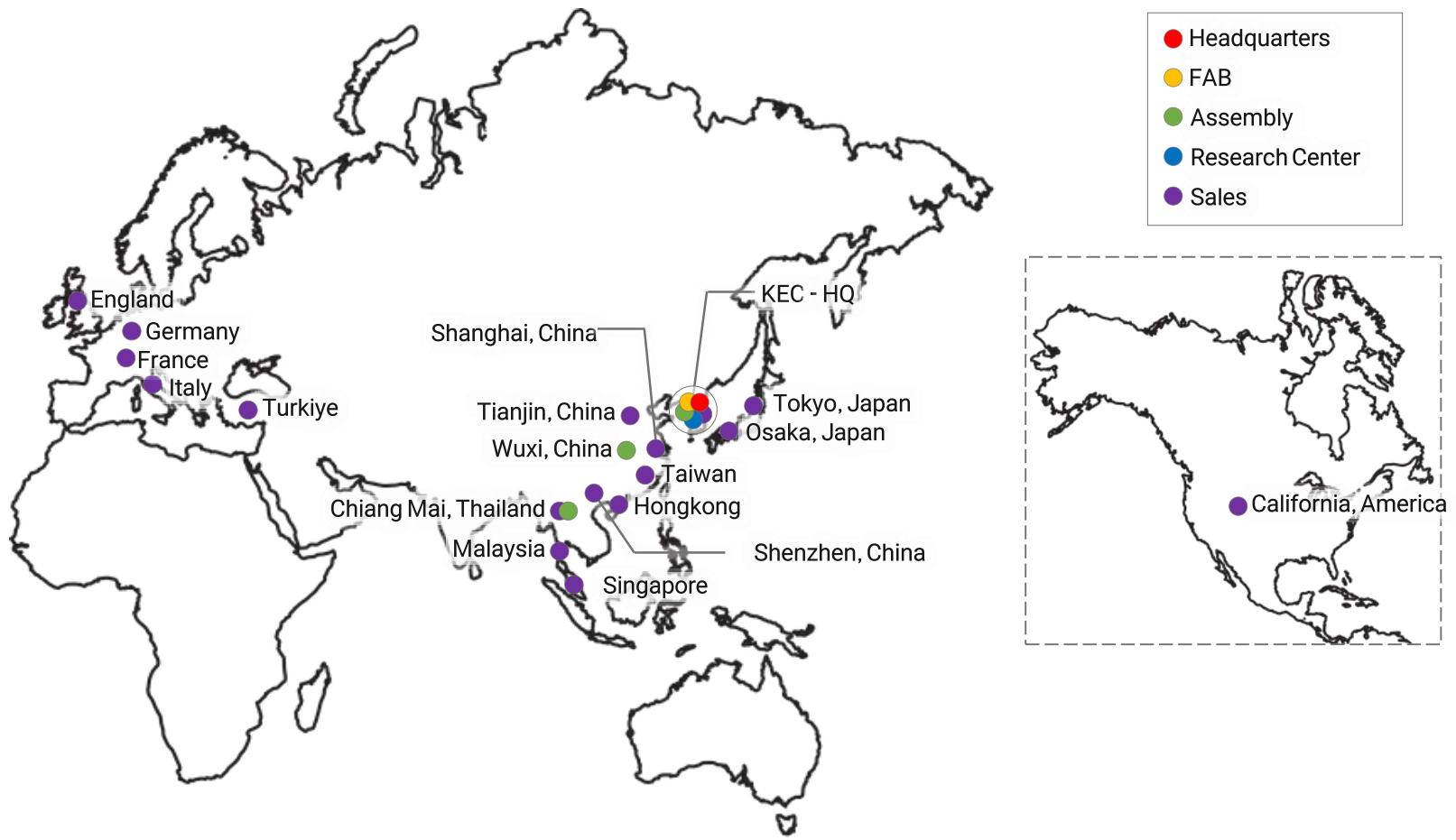
2010 ~ 2024

Toward Becoming a World-Class Semiconductor Specialist

- **2010** Signed power module co-development agreement for hybrid vehicles with Hyundai Mobis
- **2011** KEC, Named "Best Quality Partner by LG INNOTEK"
- **2012** Obtained Korea's first UL certification for large-package general-purpose power modules
- **2013** Acquired SQ certification from Hyundai-Kia Motors
- **2017** Selected for national project on next-gen power semiconductors for EV & renewable energy
- **2017** KEC-LG Chem jointly developed Korea's first BMS diode module for electric vehicles
- **2019** Released prototype of SiC-based Schottky Barrier Diode (SBD)
- **2020** Semiconductor component approved for Tesla Digital Cockpit
- **2022** Achieved national project targets and patent for 1200V Trench-type SiC MOSFET
- **2022** Started sales of SiC SBD (Schottky Barrier Diode)
- **2022** Gate Driver IC approved for supply to BYD (China EV)
- **2023** Released 3rd-gen high-performance, high-efficiency Super Junction MOSFET

KEC Global Network

Establishing a **Global Value Chain** through strategic partnerships with **Global Top Distributors**

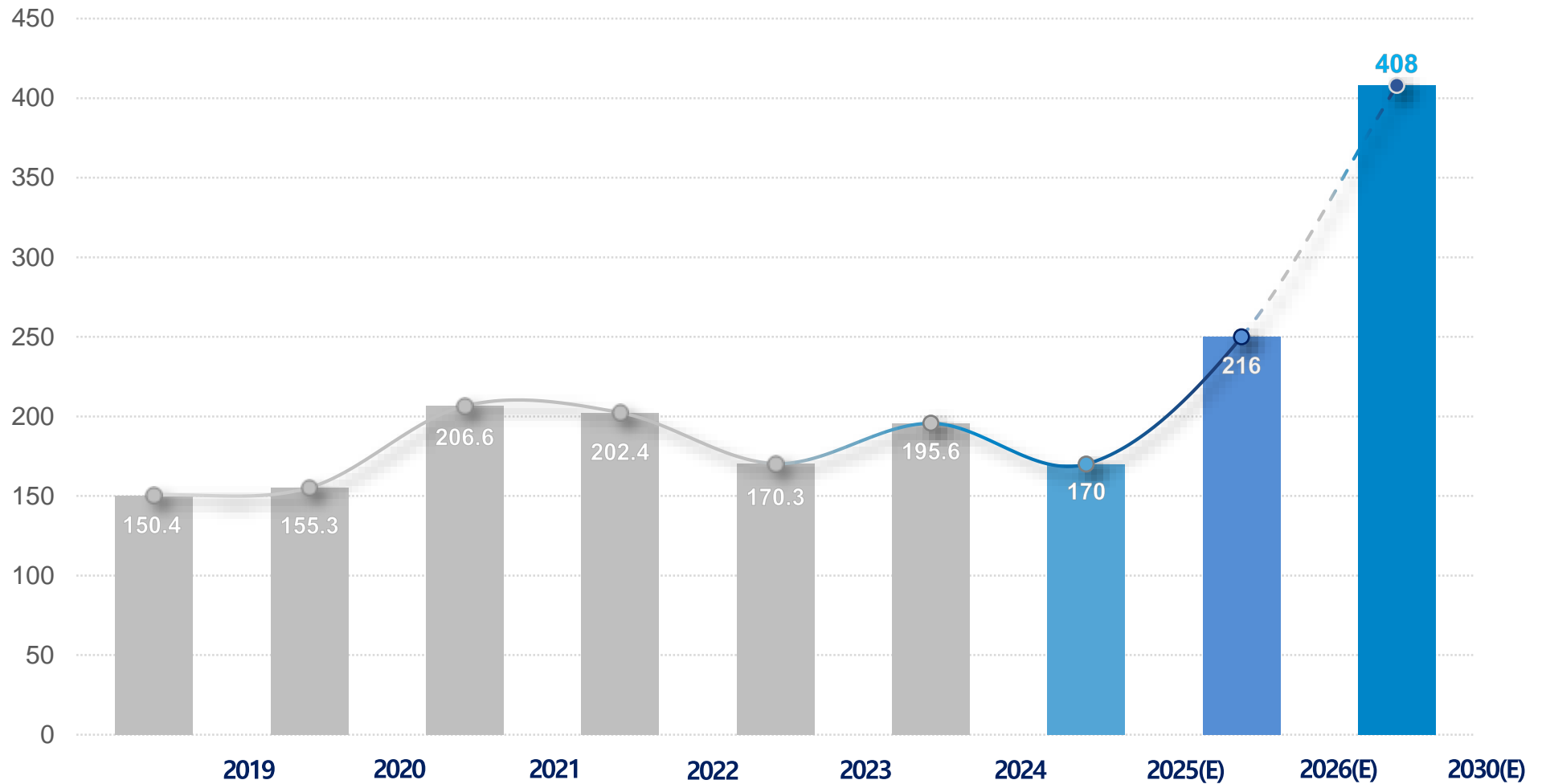


Revenue Growth

Semiconductor Business

KEC is accelerating growth by focusing on strategic businesses aligned with its renewed management strategy.

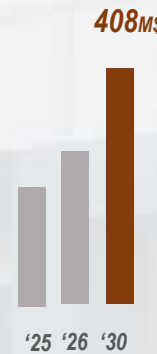
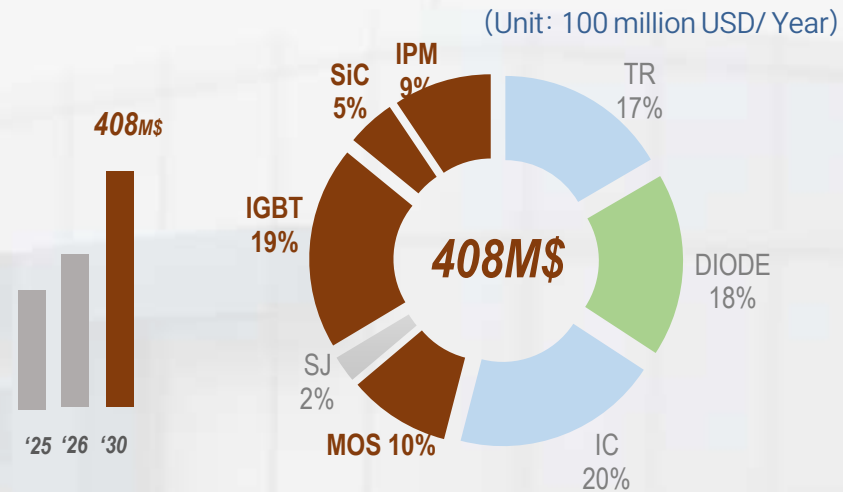
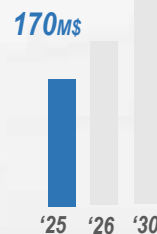
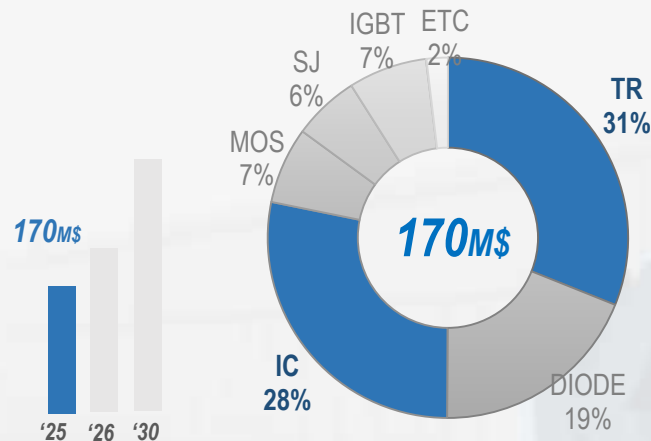
(Unit: million USD/ Year)



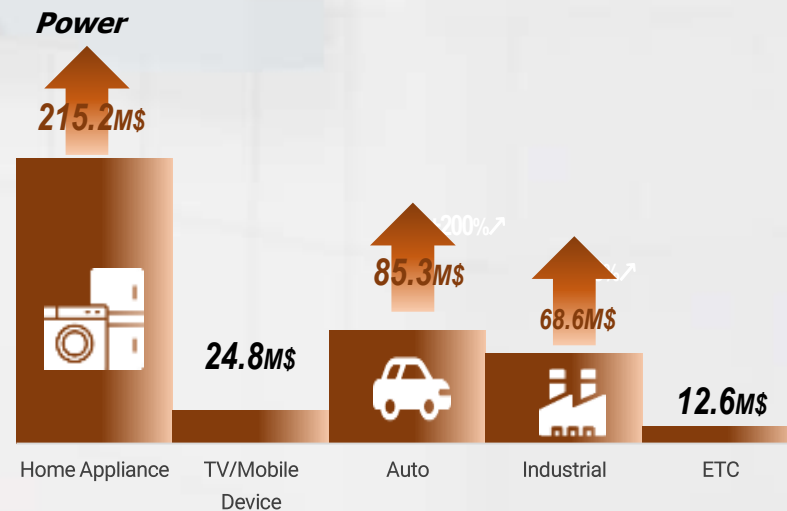
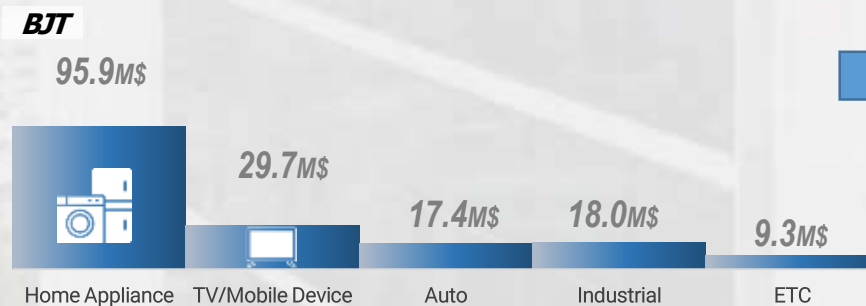
2025 Strengthening Customer-Centric Marketing Capabilities

2030 Power Semiconductor Global Brand Positioning

PRODUCT

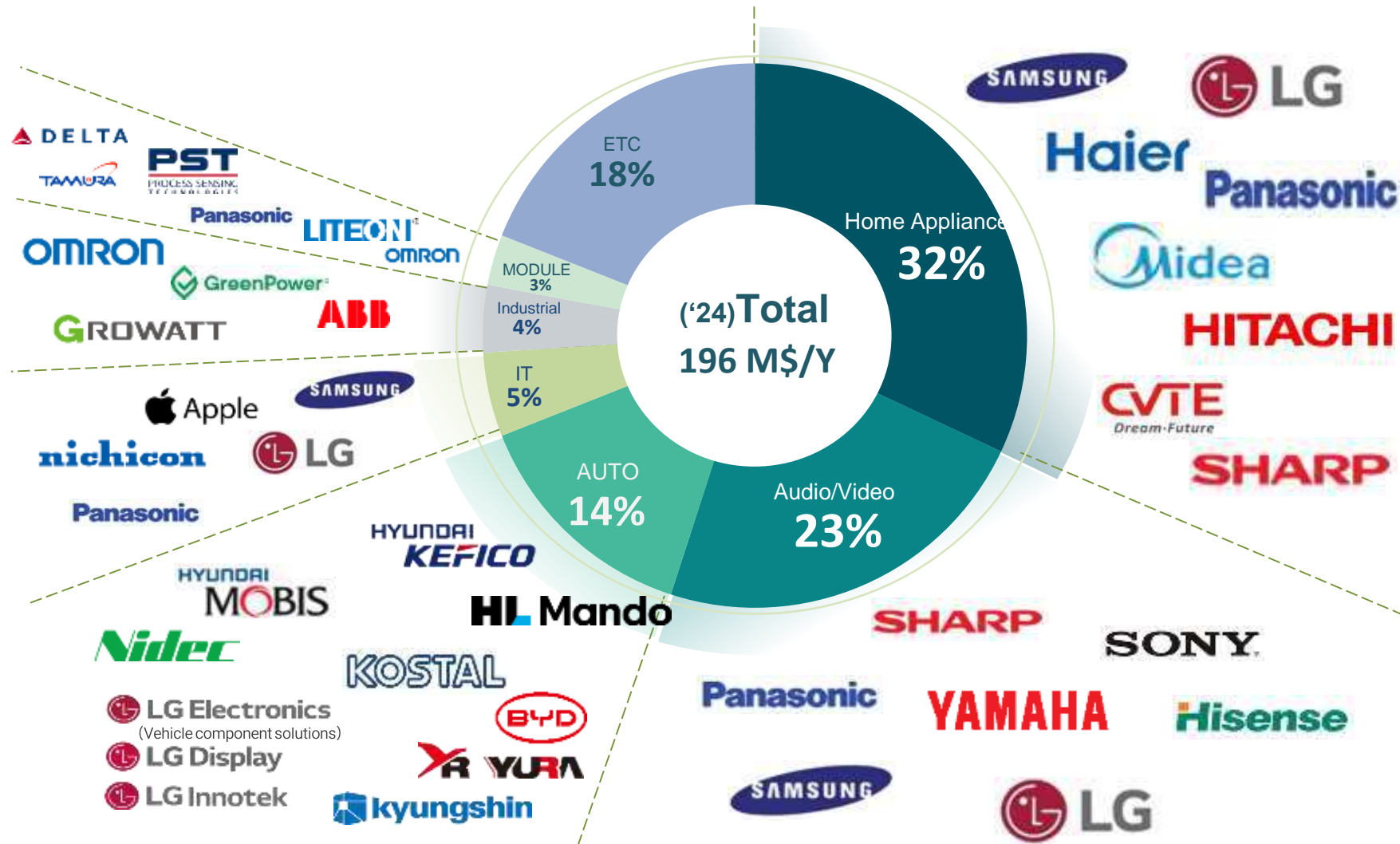


APCN



Diversified Portfolio & Customer Base

KEC is achieving stable revenue growth by expanding high value-added products, maintaining a diverse portfolio, and leveraging a well-diversified customer base.



Categories

1. IGBT

2. DIODE

- ① SBD
- ② Switching Diode
- ③ TVS Diode
- ④ ZENER Diode

3. IC

- ① CMOS Reset IC
- ② Voltage Detector IC
- ③ LDO
- ④ GP Regulator
- ⑤ Shunt Regulator
- ⑥ Gate Driver IC
- ⑦ OP AMP
- ⑧ Comparator
- ⑨ Transistor Array IC

4. MOSFET

- ① S-MOSFET
- ② LV MOSFET
- ③ HV MOSFET

5. BJT

- ① GP Transistor
- ② Switching Transistor
- ③ Complex GP Transistor

6. BRT

- ① GP BRT
- ② High Current BRT
- ③ Complex BRT
- ④ Audio Muting BRT



SMD (Surface Mounted Devices)

<p>TFSC</p>	<p>VSC</p>	<p>ESC</p>	<p>USC</p>	<p>USF</p>	<p>VSM</p>	<p>ESM</p>	<p>USM</p>
● DIODE	● DIODE	● DIODE	● DIODE	● DIODE	● DIODE/BJT/MOSFET	● DIODE/BJT/MOSFET	● DIODE/BJT/MOSFET
<p>SOT-23</p>	<p>TSM</p>	<p>SOT-89</p>	<p>DPAK</p>	<p>DPAK(1)</p>	<p>DPAK(3)</p>	<p>TESV</p>	<p>USV</p>
● DIODE/BJT/MOSFET/IC	● DIODE/BJT/IC	● BJT/IC	● BJT/MOSFET/IC	● DIODE/MOSFET	● DIODE/BJT/MOSFET/IC/IGBT	● BJT	● BJT/DIODE
<p>TSV</p>	<p>TES6</p>	<p>US6</p>	<p>TS6</p>				
● BJT/IC	● DIODE/BJT/MOSFET	● BJT/MOSFET	● DIODE/BJT				

Leadless Devices

ELP-2A	ELP-2B	ULP-2	ULP-3

● DIODE

● DIODE

● DIODE

● BJT/MOSFET

THD (Through-Hole Device)

TO-126	TO-220IS-2P	TO-220IS	TO-220IS(1)	TO-220IS-4	TO-3P(N)	TO-3P(N)-E

● BJT/MOSFET/IC

● DIODE

● DIODE/BJT/IC

● DIODE/MOSFET/IGBT

● IC

● BJT

● BJT

TO-3P(H)IS	TO-247

● BJT

● DIODE/MOSFET/IGBT

Research and Development

For 55 years since its founding, KEC has been a key player in Korea's electronics industry as a specialized non-memory semiconductor manufacturer, earning trust for its quality and recognition for technological excellence from leading domestic and global electronics companies.



R&D Established
Since 1984
(40 years)



R&D staff
200



Patents
200
(30 Strategic Patents)



IATF
16949

ISO
14001

CUSTOMER
PARTNER
SHIP

IATF Certificate body BSI

	KEK (KOREA) 2024. 08		CHINA 2024. 01		THAILAND 2024. 08
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Certificate body SGS

	KEK (KOREA) 2024. 10		CHINA 2023. 07		THAILAND 2023. 05
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	LG ECO 2005.10		SAMSUNG ECO 2011.09		SONY GREEN 2018.02
	CANON GREEN 2013.12		EPSON GREEN 2006.06		ON SEMI 2001.09

Thank you

