

PANJIT International Inc

Power
Semiconductor





Aug. 2022

- About PANJIT
- Power Discrete & New Technology Focus
- Automotive

About PANJIT

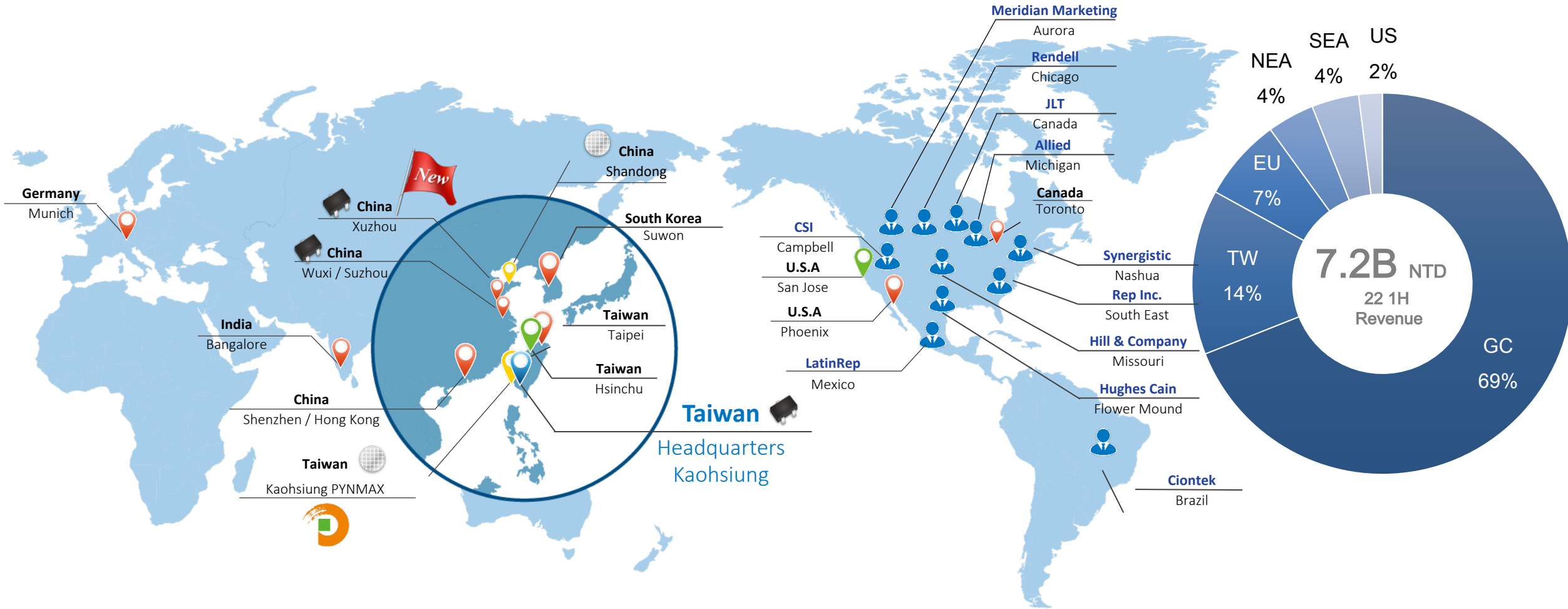
We are IDM company in Semi-conductor at Power segment. We cover wafer design, manufacturing and packaging with PANJIT Brand. We evolve in R&D innovation, MES automation, optimize manufacturing Quality. PANJIT have been targeting in Automotive, EV, wind power, solar power, UPS and energy storage systems with diversified customer base globally.

PANJIT has been implementing environmental friendly ECO system, caring about employees and contributing to the society; We have been engaging for 2 years in ESG program and we will publish ESG book and CSR book after 2023. PANJIT aims at carbon dioxide emissions to net-zero.

- Capital: NTD \$ 3.8 B
- Consoled. Revenue(2021):NTD \$13.9 B
- Approx. 3,300 employees worldwide
- 3 front-end fabrication sites
- 3 back-end manufacturing sites






PANJIT Global Foot Print

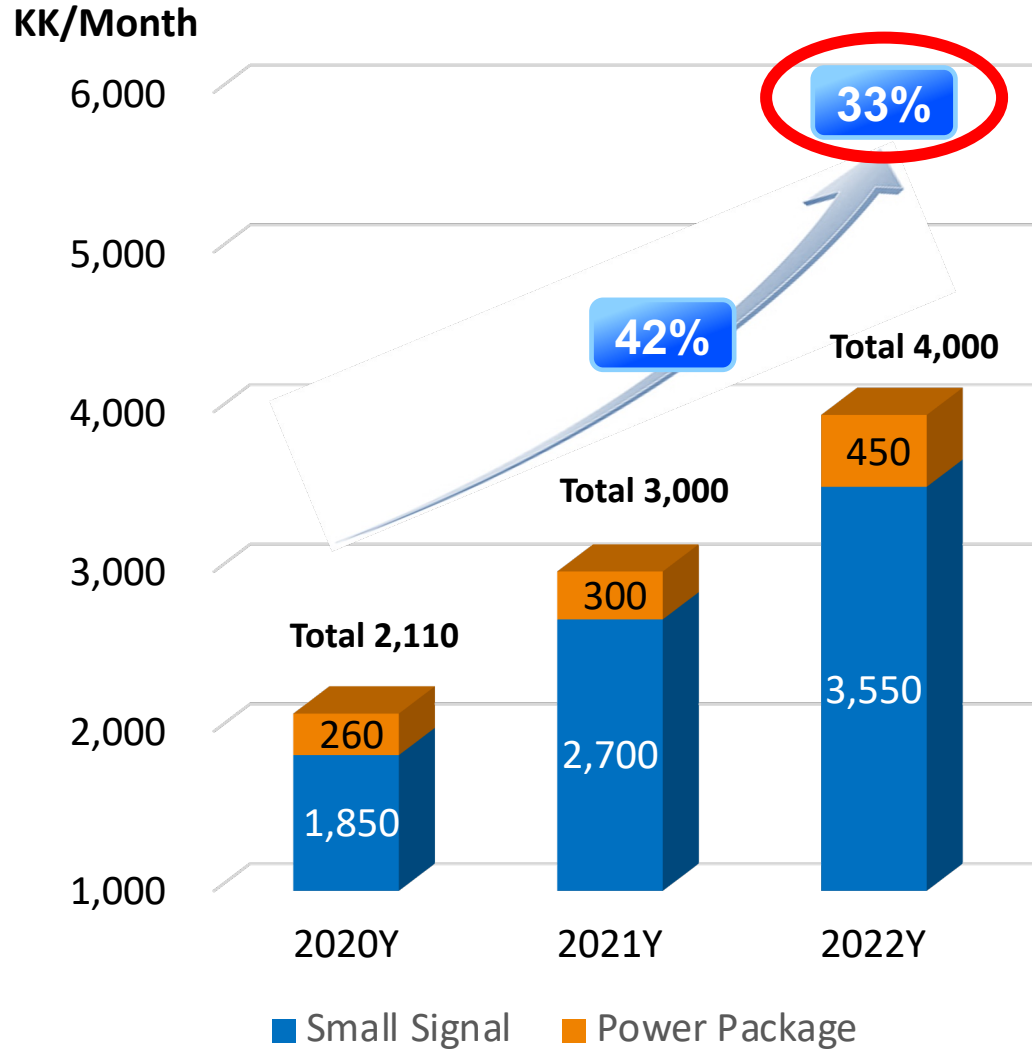


-  Headquarters
-  Sales Office
-  R&D Sites
-  Front-End
-  Back-End
-  Rep

Wafer Capacity

	<p style="text-align: center;">Fab 1</p> <ul style="list-style-type: none">■ 6" EPI Wafer: 60,000 pcs/month■ 6" Schottky Wafer: 45,000 pcs/month■ 6" ESD/TVS Wafer: 5,000 pcs/month■ 6" ZENER Wafer: 5,000 pcs/month	<p style="text-align: center;">Location</p> <p style="text-align: center;">Kaohsiung, Taiwan</p>
	<p style="text-align: center;">Fab 2</p> <ul style="list-style-type: none">■ 4" TVS Wafer: 25,000 pcs/month	<p style="text-align: center;">Location</p> <p style="text-align: center;">Shandong, China</p>
	<p style="text-align: center;">Fab 3</p> <ul style="list-style-type: none">■ 8" SJ MOSFET/IGBT wafer: 10,500 pcs/month	<p style="text-align: center;">Location</p> <p style="text-align: center;">Kaohsiung, Taiwan</p>

Assembly Capacity



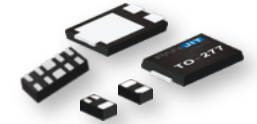
Gangshan, Taiwan

Package:

Small Signal Devices/SMD Bridge

Capacity:

3,030 KK /month



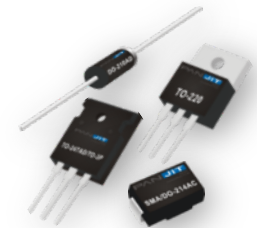
Wuxi, China

Package:

SMD/Power Package

Capacity:

450 KK /month



Xuzhou, China

Package:

Small Signal Device

Capacity:

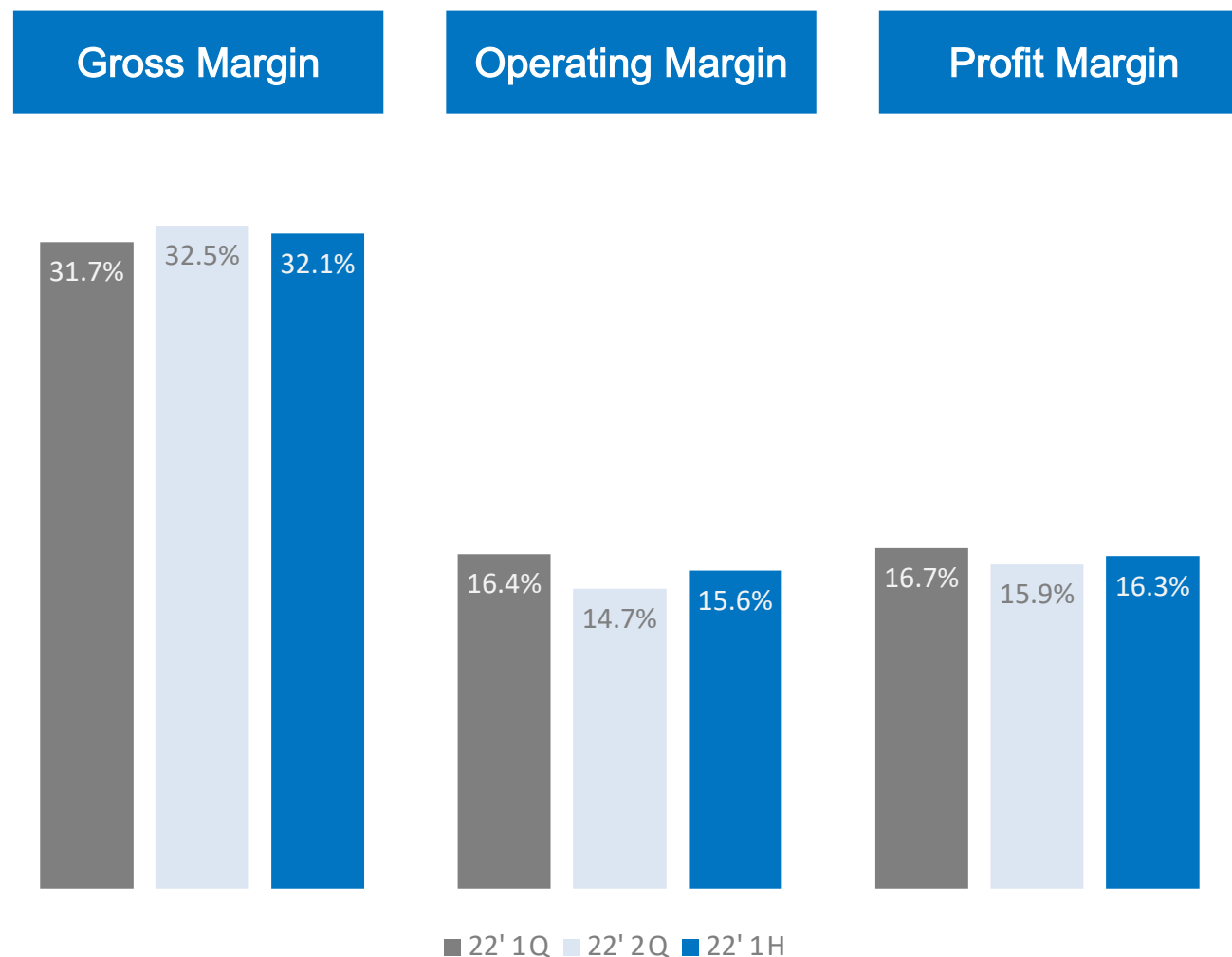
520 KK /month



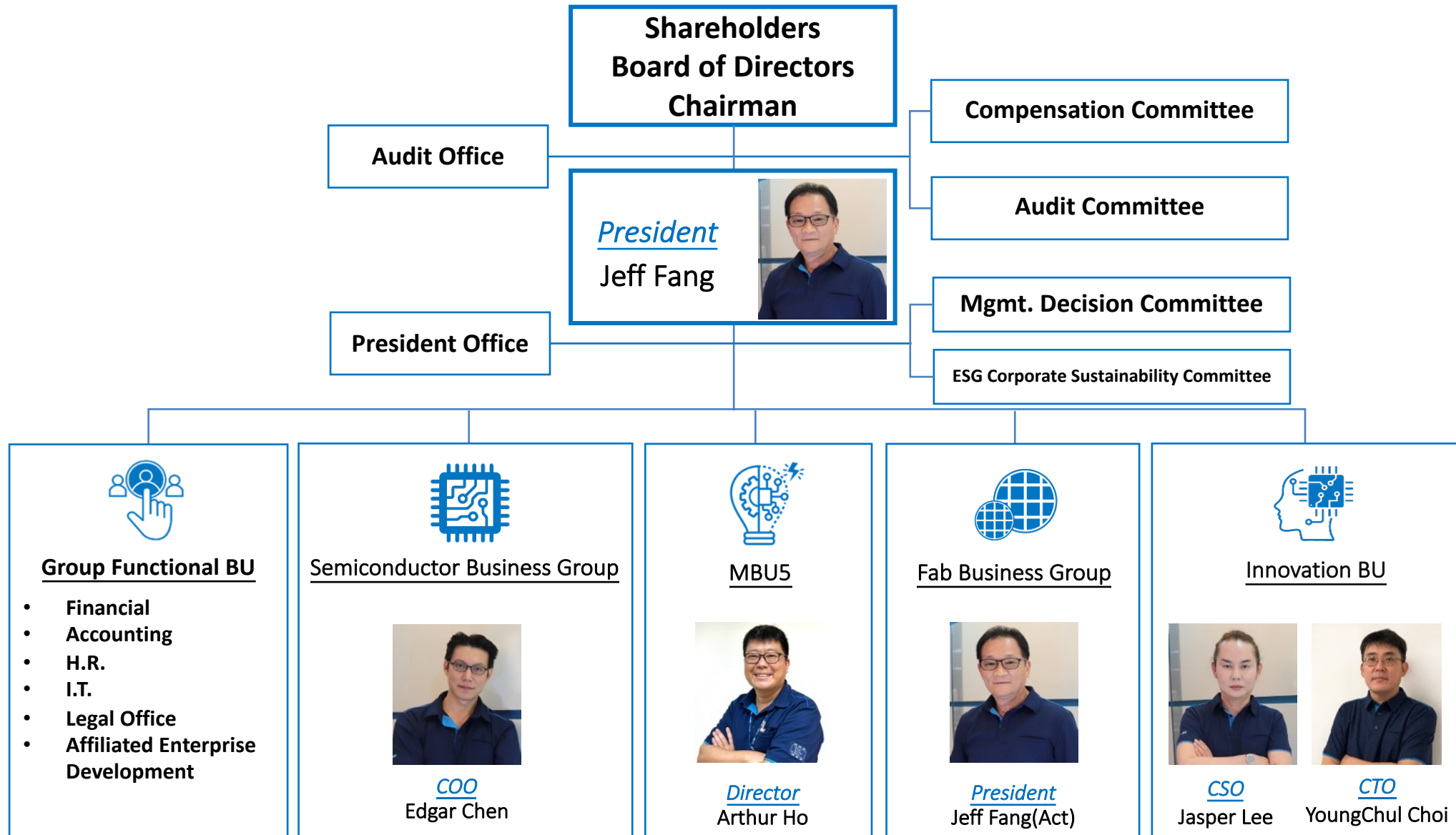
Financial Info

22' 1H Financial Key Index

Unit : Bn NTD	1Q	2Q	22' 1H
Revenue	3.72	3.49	7.20
Gross Profit & Margin	1.18 31.7%	1.13 32.5%	2.31 32.1%
Operating Profit & Margin	0.61 16.4%	0.51 14.7%	1.12 15.6%
Net Profit after tax & Margin	0.62 16.7%	0.55 15.9%	1.17 16.3%
EPS	1.60	1.49	3.09



New Team



Power Device

New Product & Technology Focus

Power Device Total Addressable Market

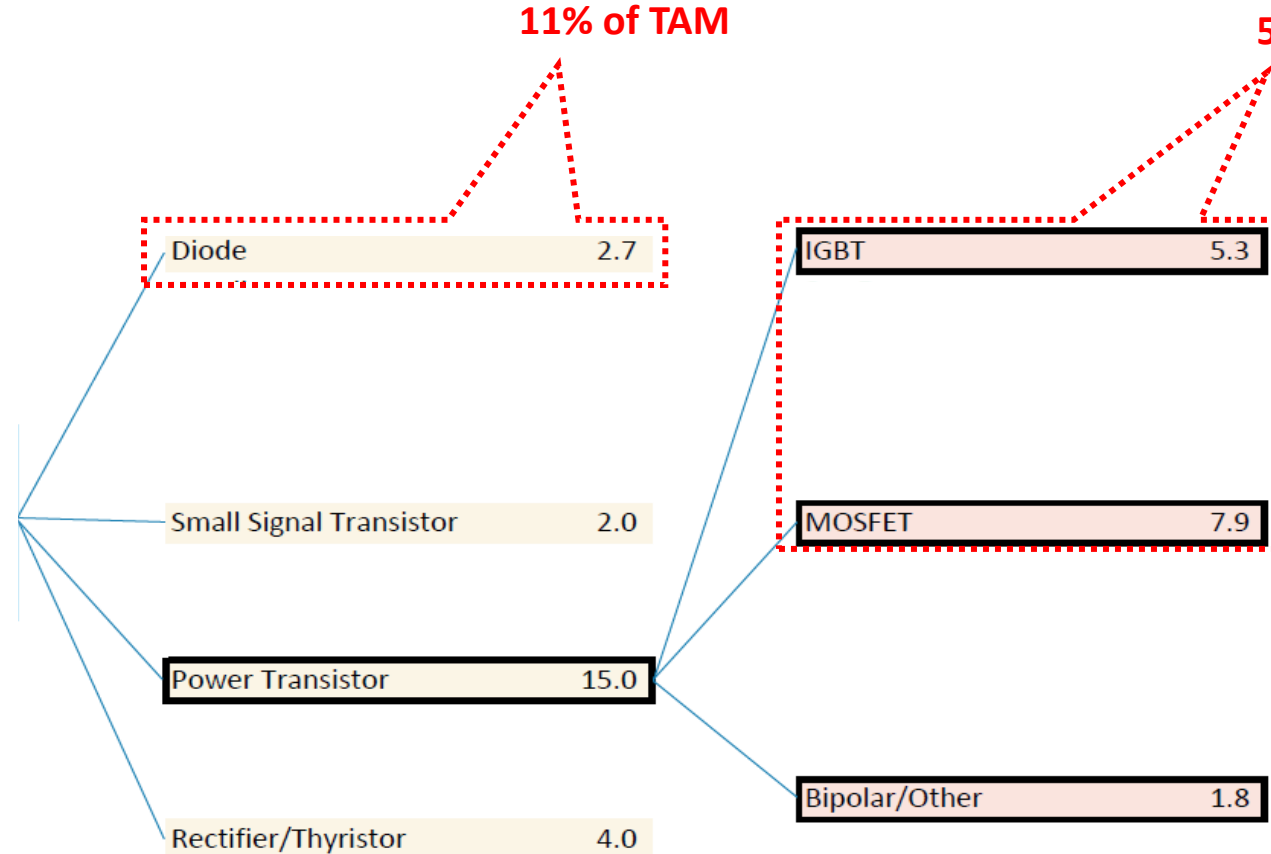
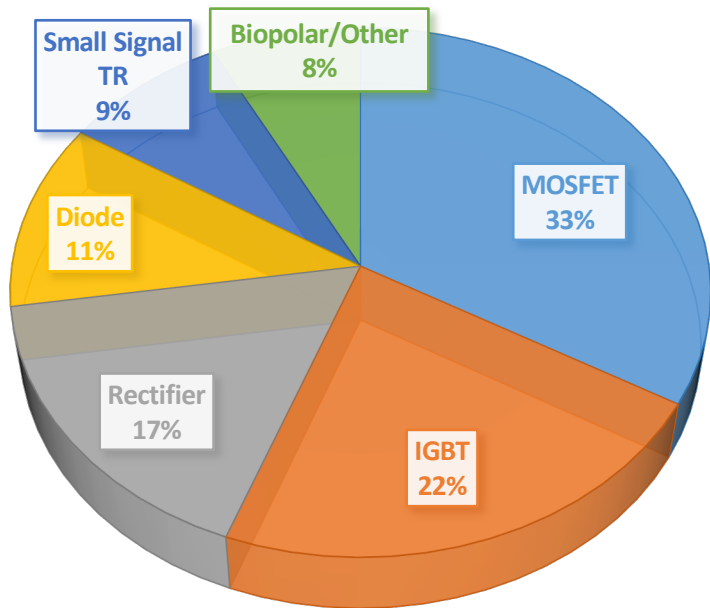
☐ Power Device TAM (\$23.7B USD)

☐ Diode TAM: \$2.7B USD

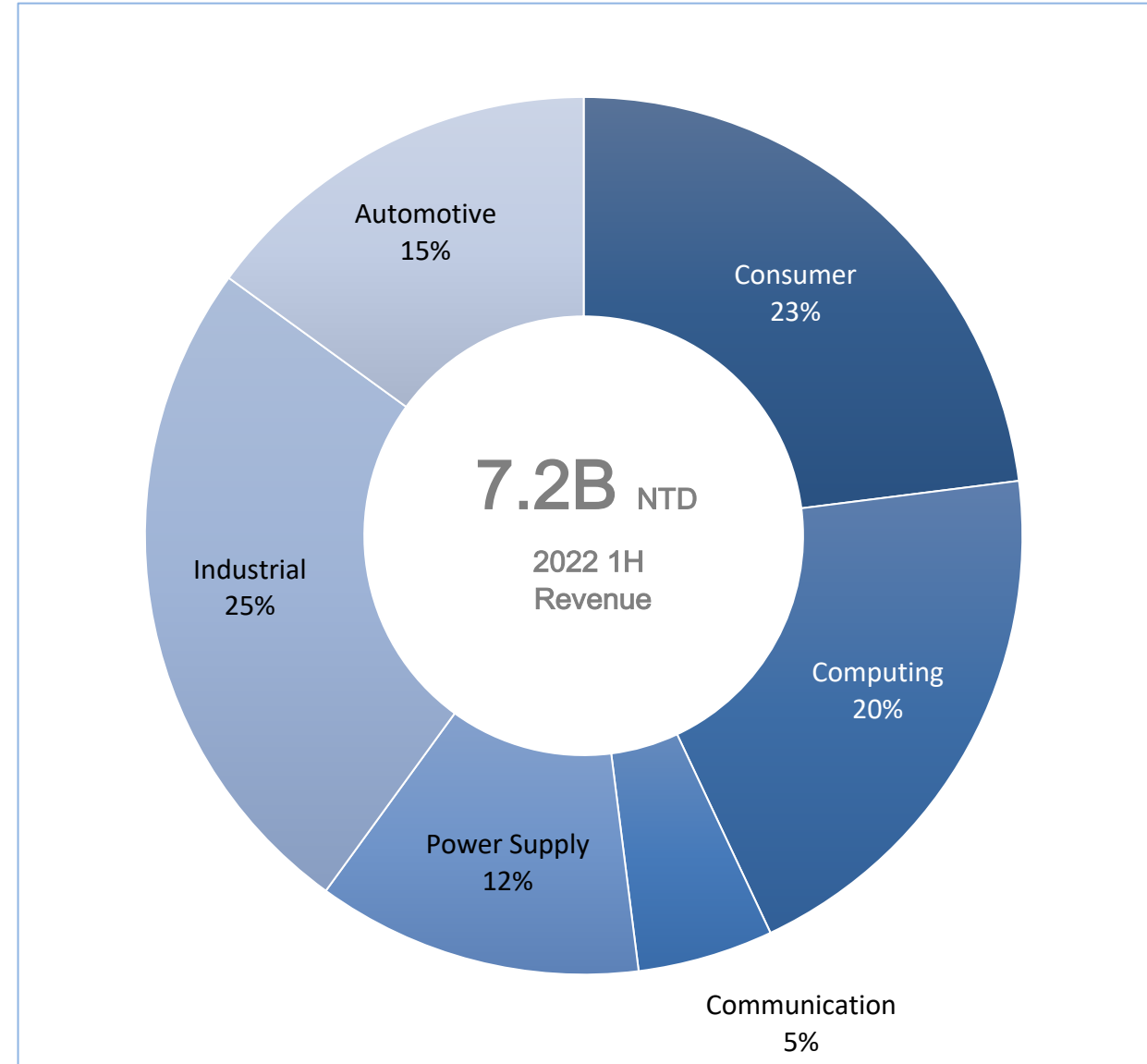
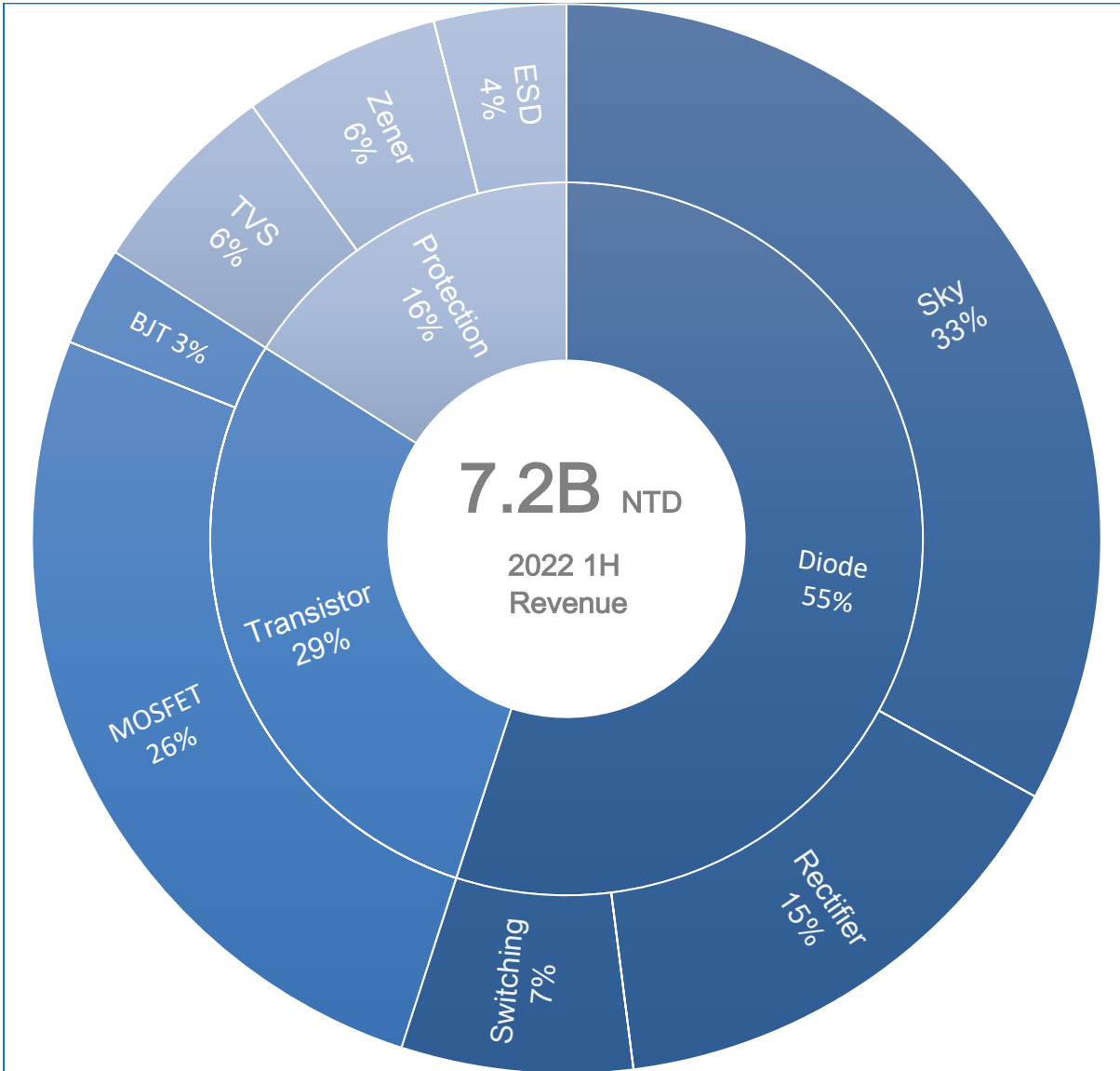
☐ MOSFET and IGBT TAM: \$13B USD

11% of TAM

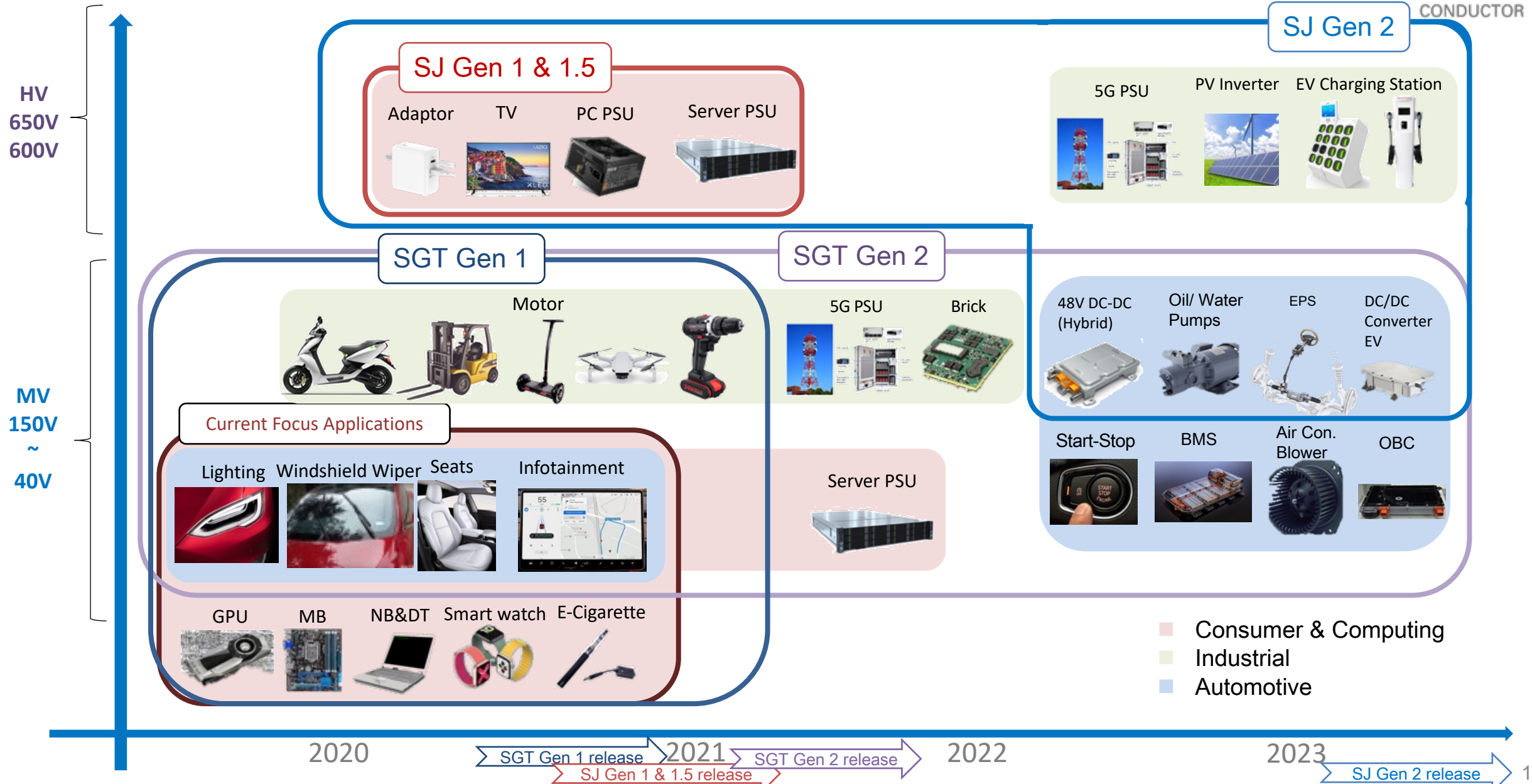
55% of TAM



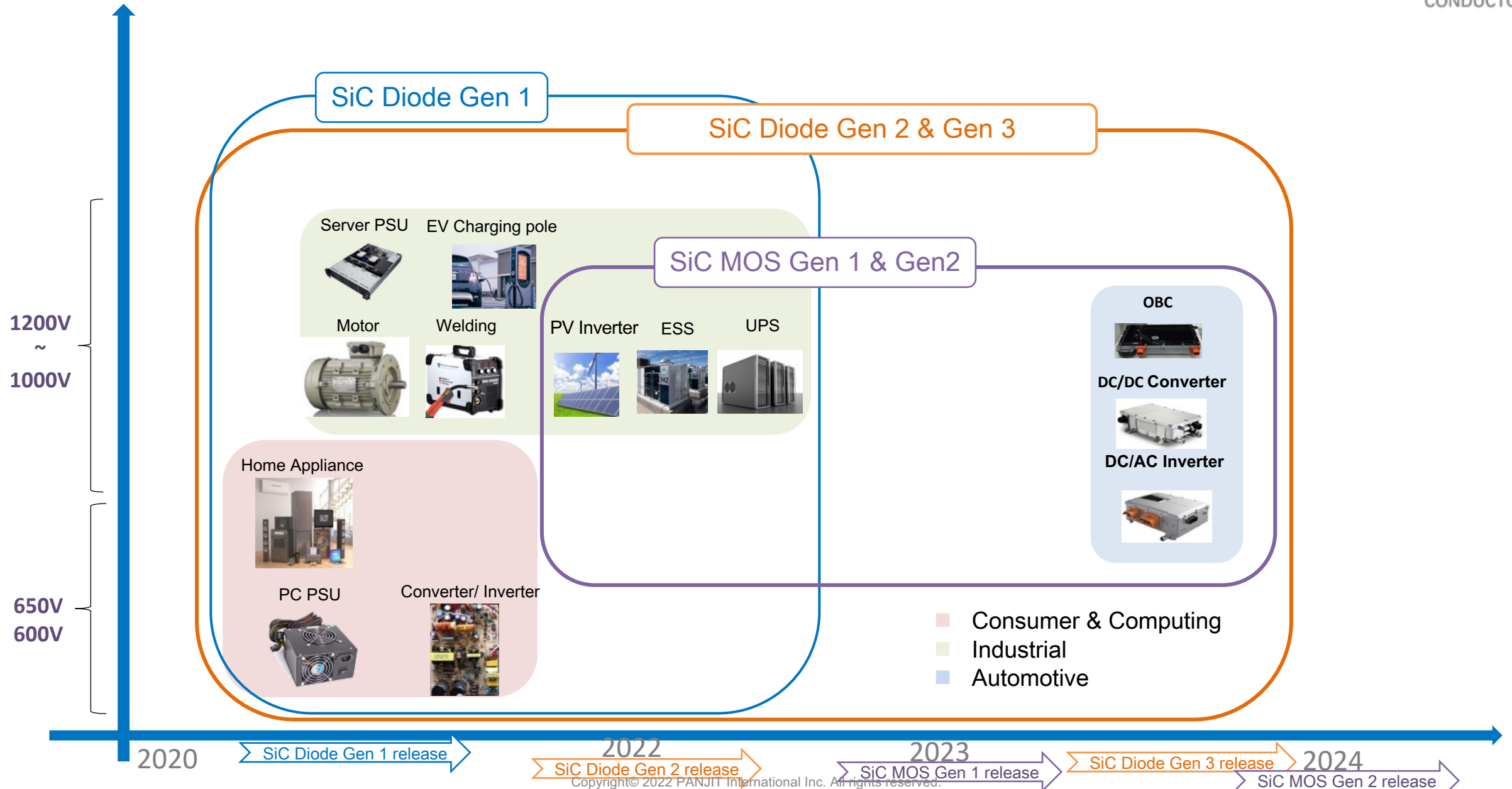
2022 1H Rev breakdown by product Application



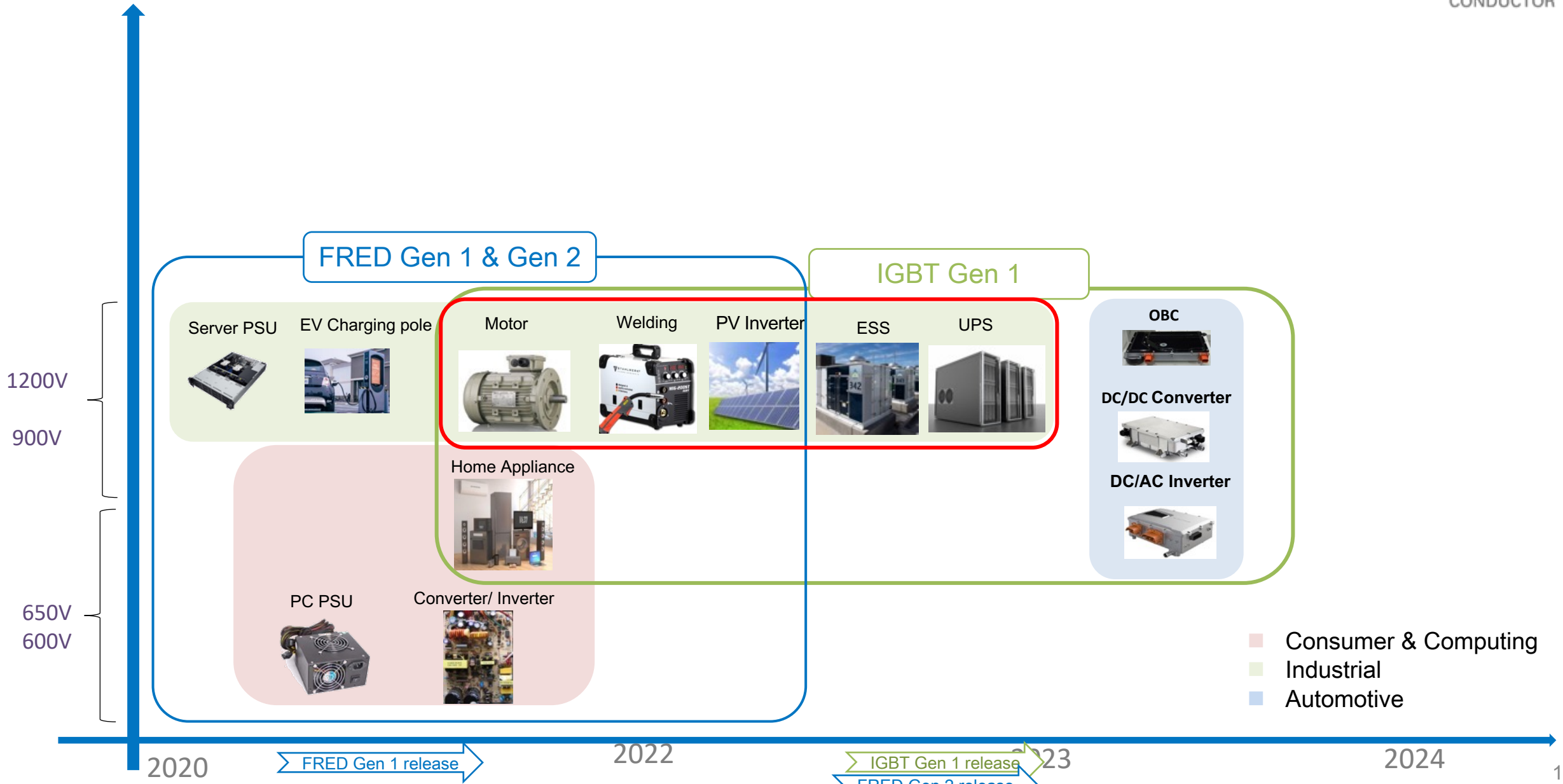
MOSFET Focus Applications



HV Product (SiC Diode & SiC MOS) Focus Applications

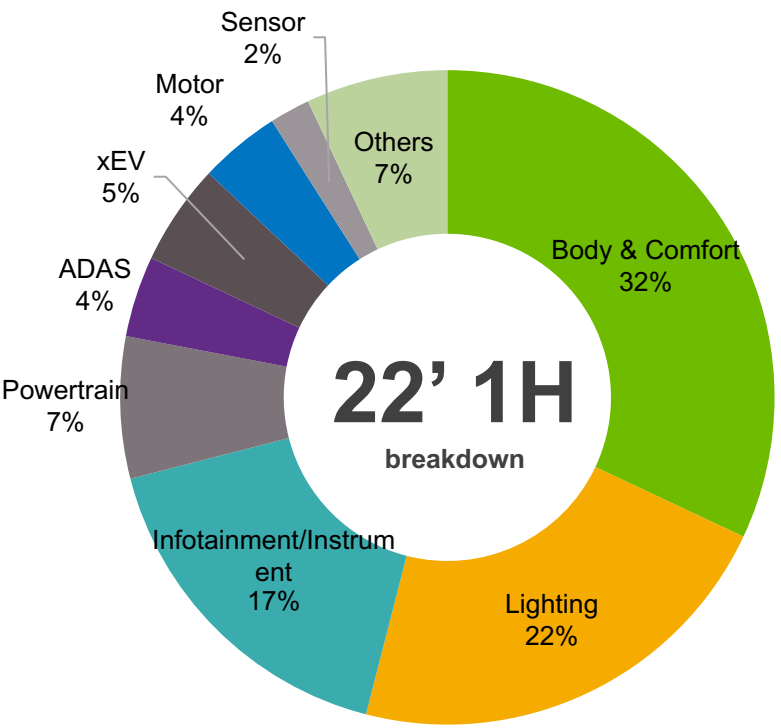


HV Product (IGBT & FRED) Focus Applications

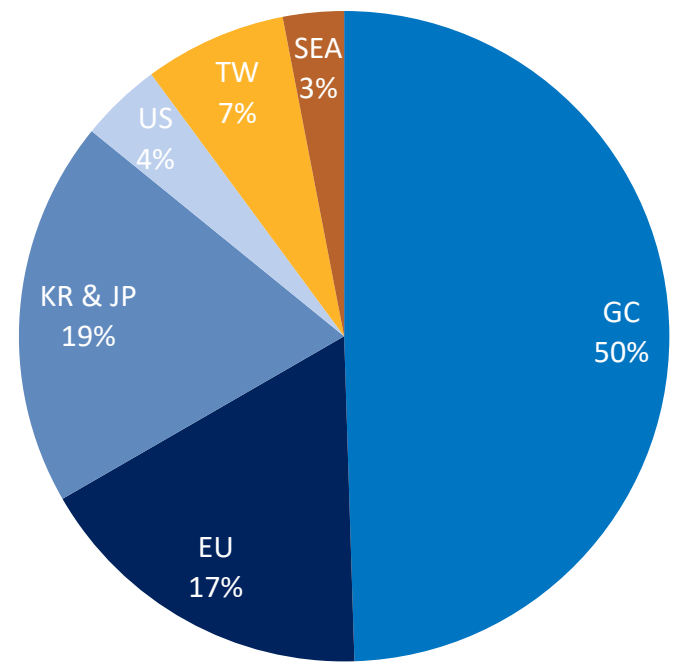


Automotive focus

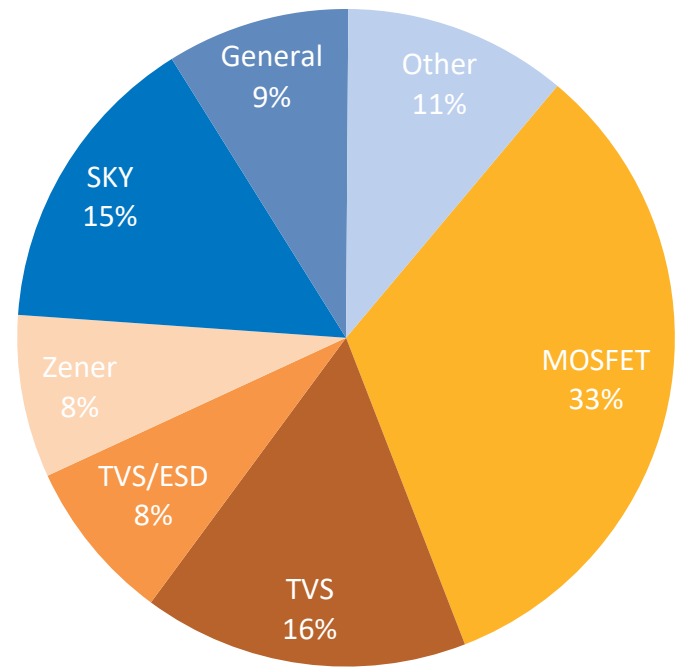
Automotive 1H Breakdown











Region



Function



Key Applications by xEV types

	Mild Hybrid	Full Hybrid	PHEV	BEV
 DC/DC Converter (48V - 12V)	MV MOSFET			
 48V ISG	MV MOSFET			
 HV ISG (Optional)		IGBT + FRED / SiC MOSFET		
 DC/DC Converter (HV - LV)		HV MOSFET + MV MOSFET / SiC MOSFET + MV MOSFET		
 Traction Inverter (DC/DC + Inverter)		IGBT + FRED / SiC MOSFET + SiC Diode		
 HV PTC Heater			IGBT	
 On Board Charger			HV MOSFET + FRED / SiC Diode / SiC MOSFET + SiC Diode	
 EV Charging Pile			HV MOSFET / IGBT + FRED / SiC MOSFET + SiC Diode	

Thank You

