

2021 Q1

# Investor Conference

Sysgration Ltd.

**SYSGRATION®**  
(5309)

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# Outline

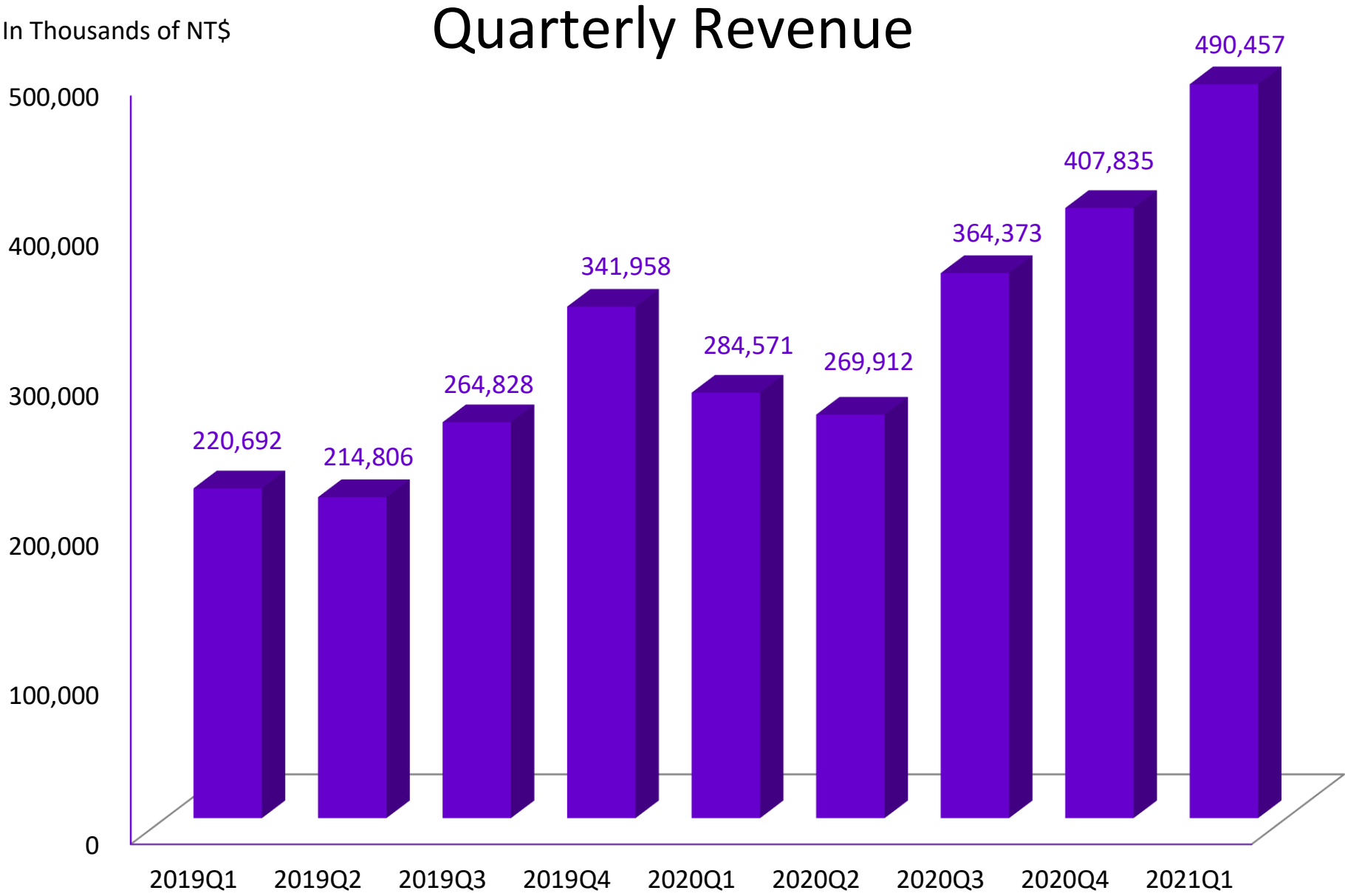
1. 2021 Q1 Performance Highlight
2. Business Direction and Strategies
3. Energy Storage Market and Sysgration Li-Ion Based Energy Storage Solutions

# 2021 Q1 Performance Highlight

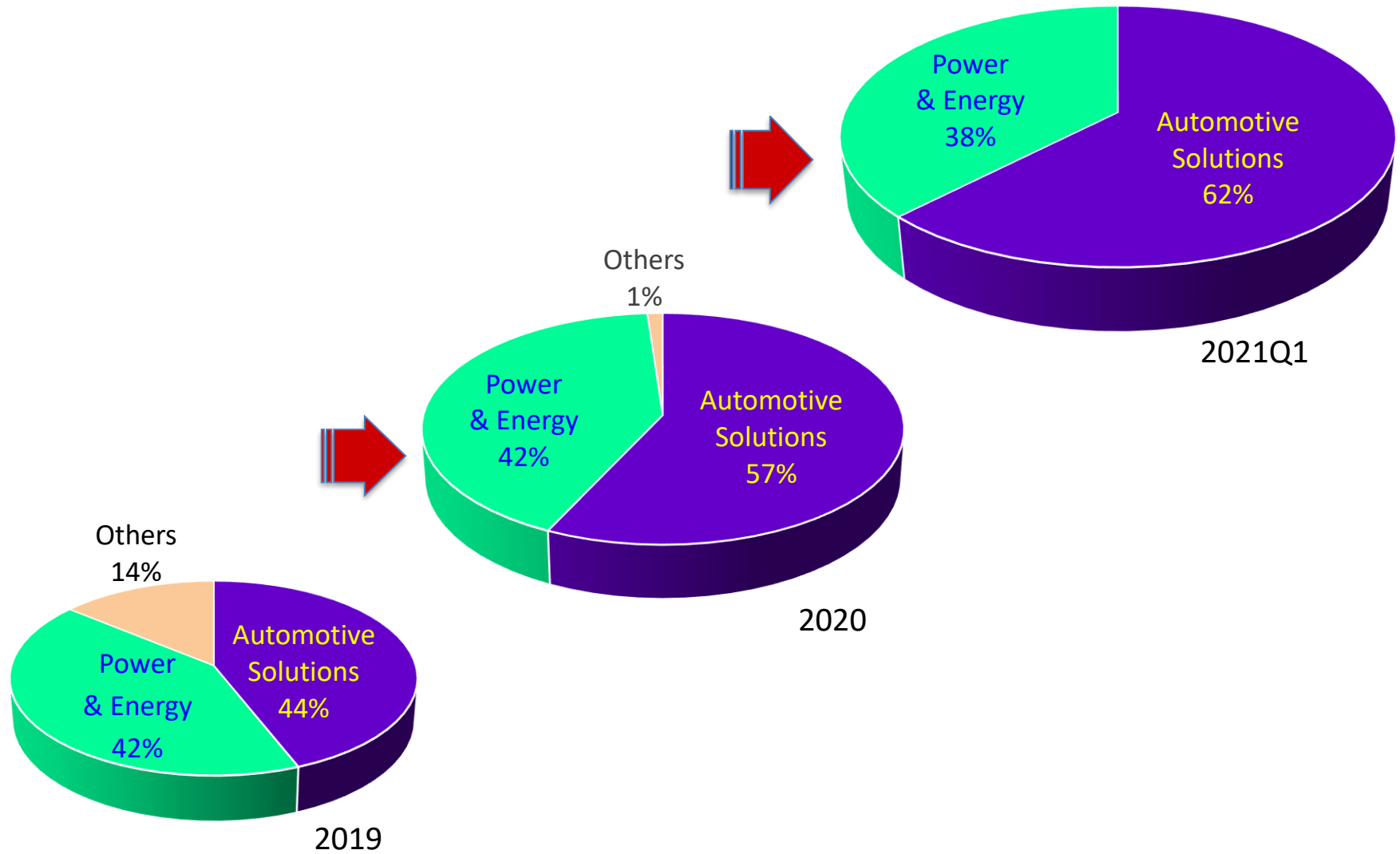
# 2021 Q1 Operation Result

In Thousands of NT\$

Item	2021 Q1		2020 Q1		QoQ
	Amount	%	Amount	%	%
Operating Revenue	490,457	100.0	284,571	100.0	72.3
Operating Cost	402,973	82.2	232,197	81.6	73.5
Gross Margin	87,484	17.8	52,374	18.4	67.0
Operating Expenses	86,731	17.6	98,208	34.5	(11.7)
Operating Income (Loss)	753	0.2	(45,834)	(16.1)	101.6
Non-Operating Income (Loss), Net	9,851	2.0	4,405	1.5	123.6
Profit (Loss) before Income Tax	10,604	2.2	(41,429)	(14.6)	125.6
Profit (Loss) Attributable to Owner of the Parent	9,717	2.0	(39,661)	(13.9)	124.5
Earning (Loss) per Share (NT\$)	0.06		(0.26)		123.1

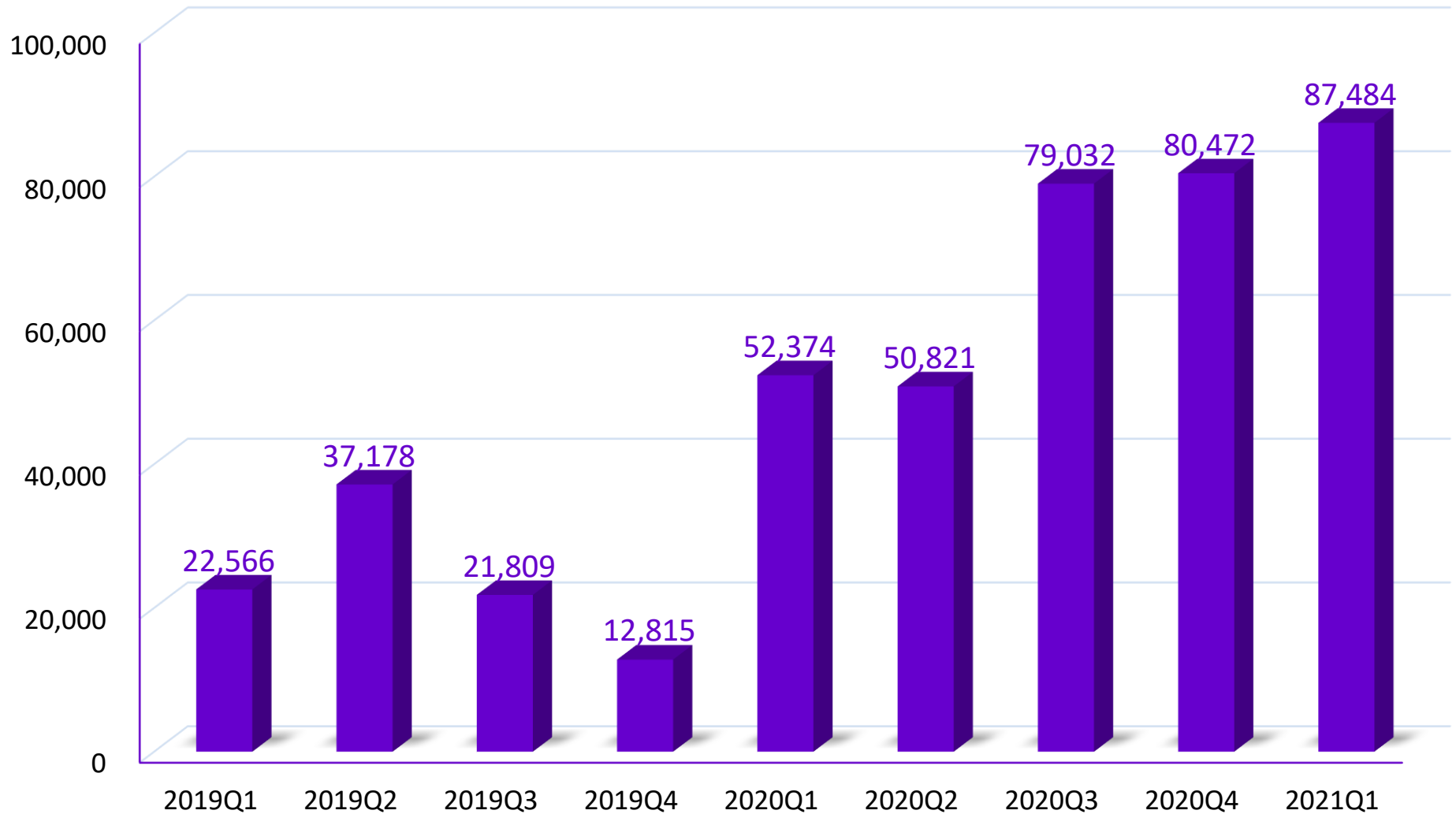


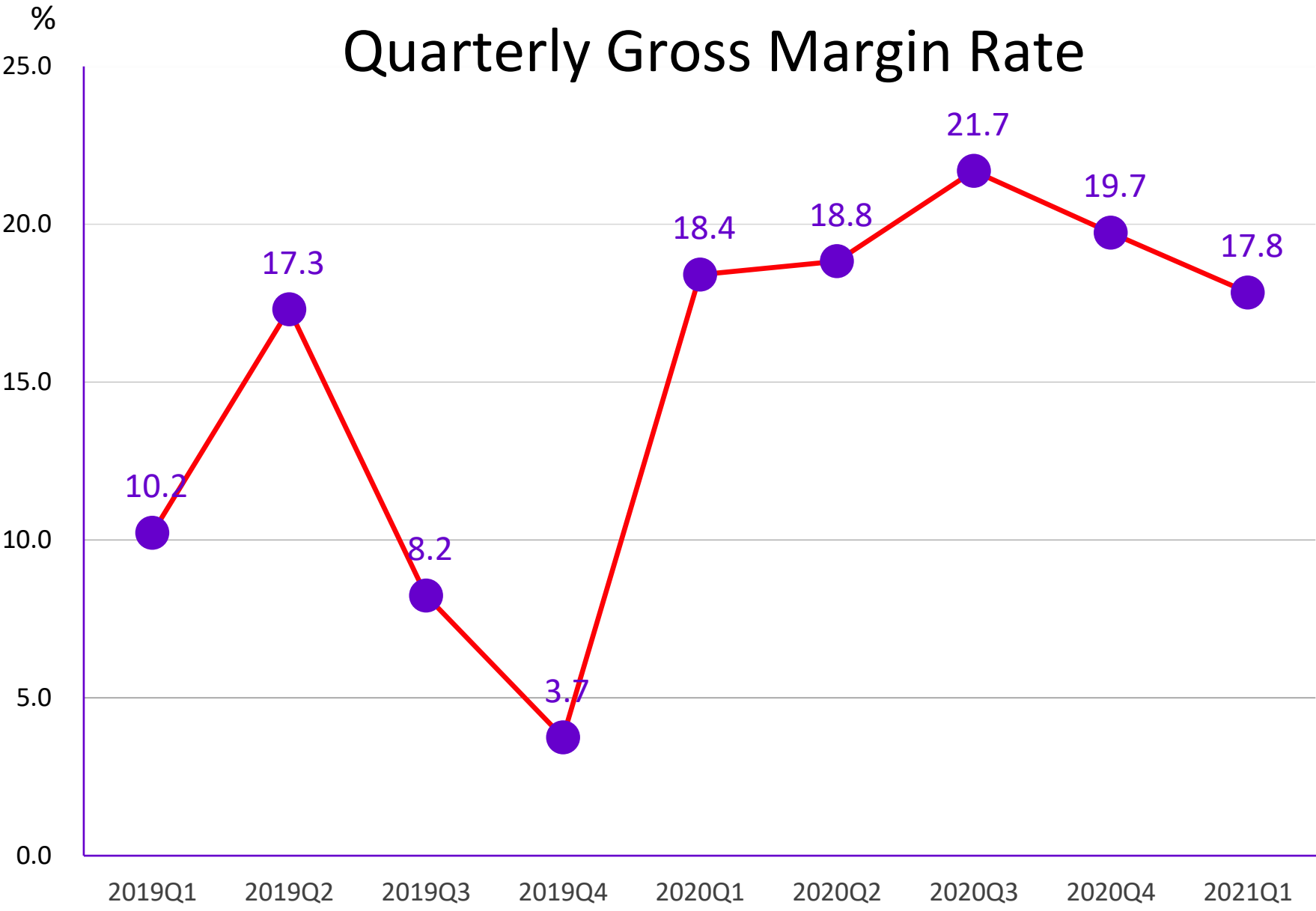
# Revenue by Segment



## Quarterly Gross Margin

In Thousands of NT\$



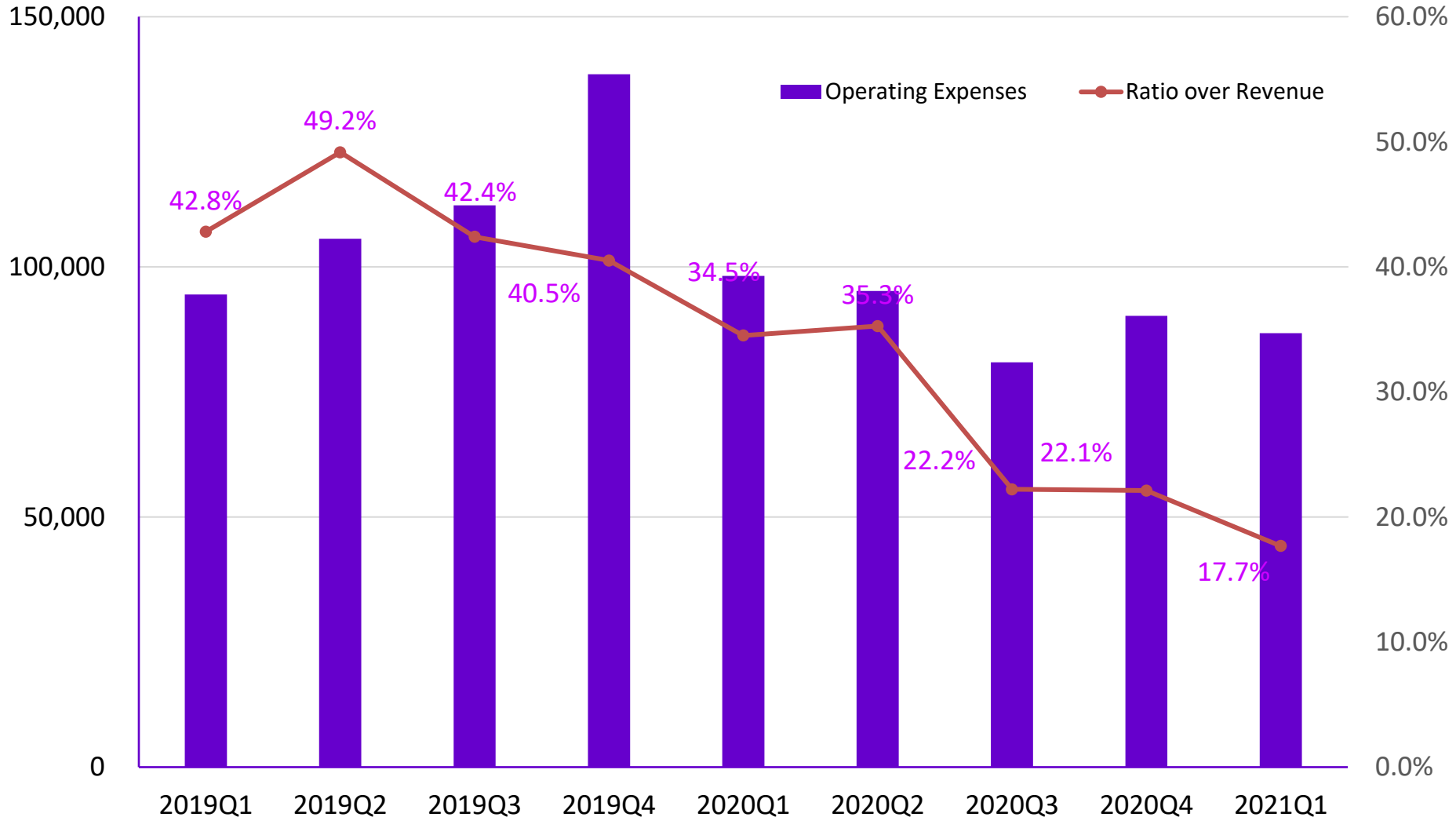




# Operating Expenses Trend

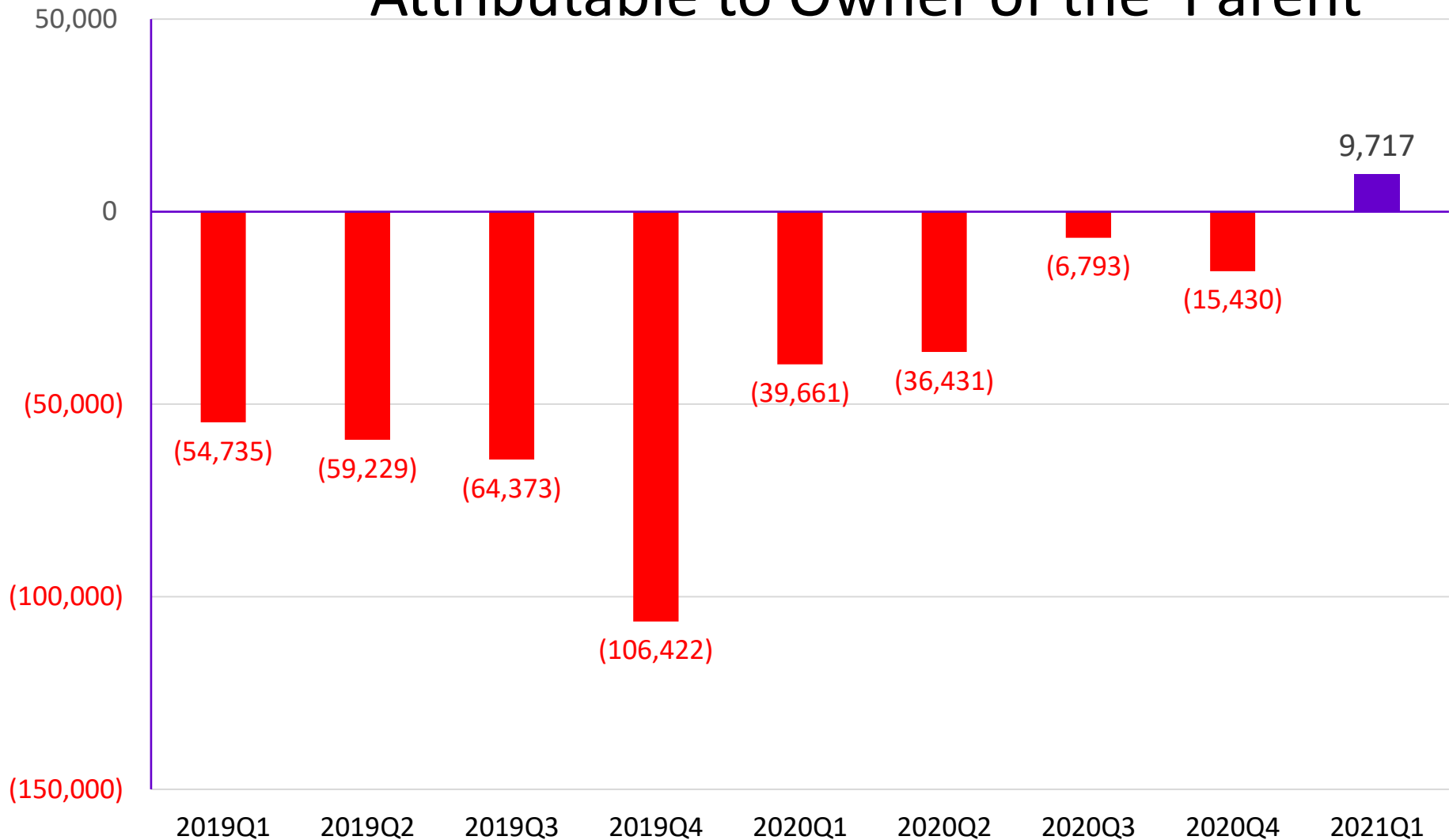
## Quarterly Operating Expenses and Ratio over Revenue

In Thousands of NT\$

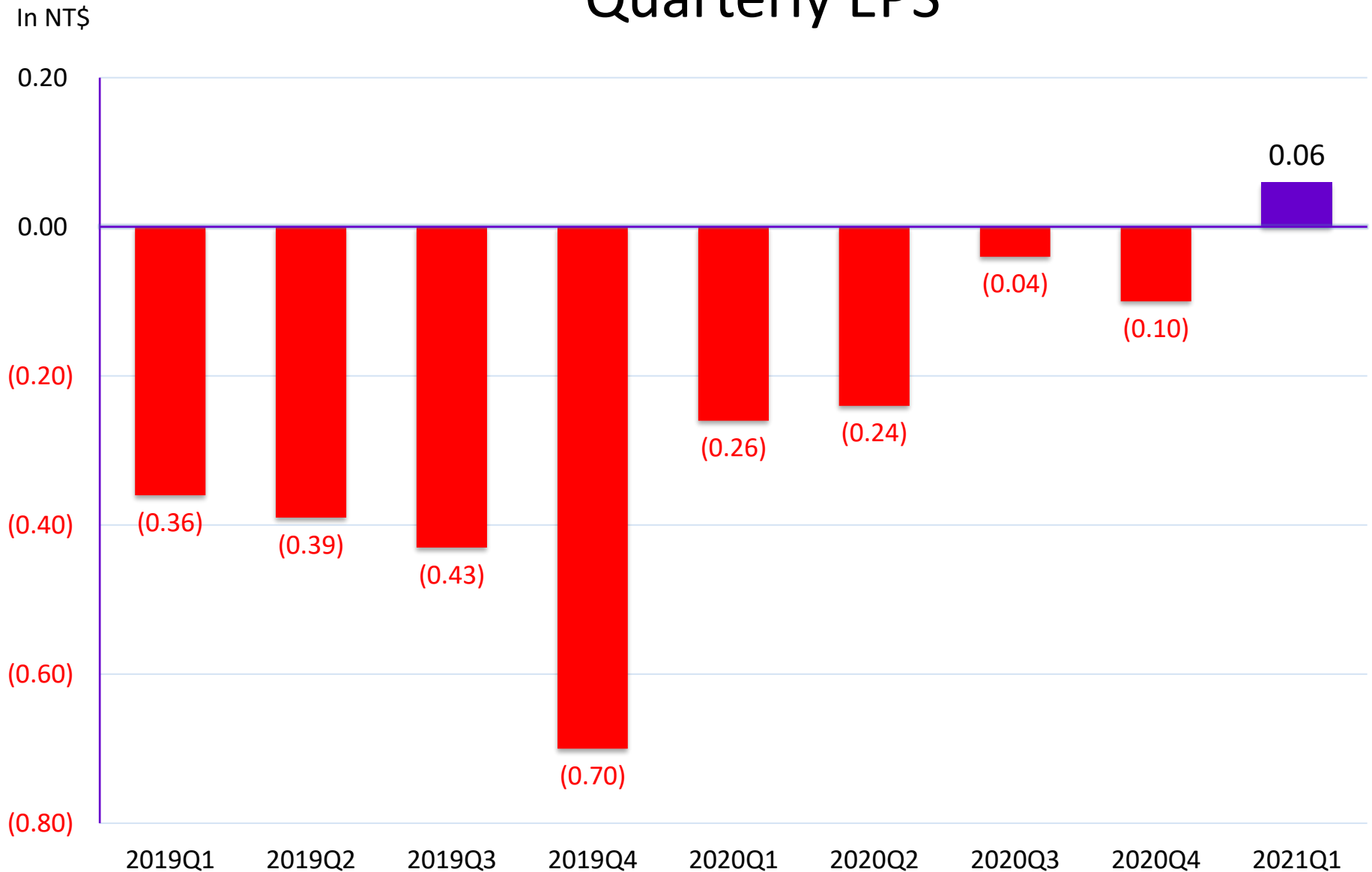


## Quarterly Profit (Loss) After Tax Attributable to Owner of the Parent

In Thousands of NT\$



## Quarterly EPS



# Business Direction and Strategies

◆ Soft Landing on 3C Me-Too Products

◆ Focus on High-Growth Market:

To Do or Not to Do,  
That's the Strategy.

➤ Automotive Solutions:

✓ Sensors

✓ IPC Control Panels

➤ Power and Energy Management:

✓ Semiconductor Fab and Factory Automation

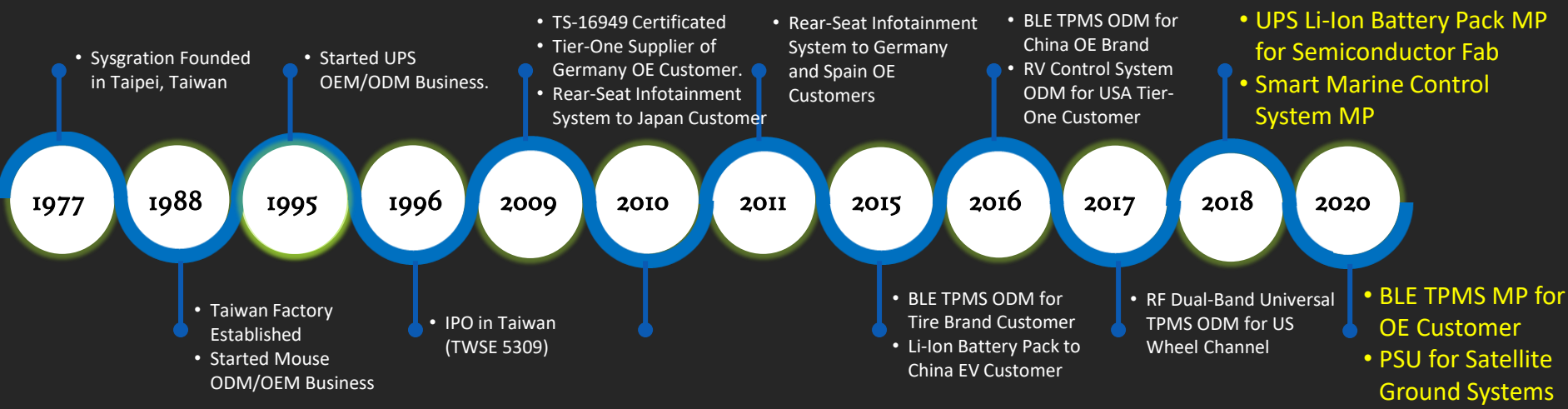
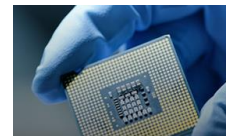
✓ Data Centers

✓ 5G/Satellite Communications

◆ Serve World-Class Top-Notch Customers

◆ Grow Business through Value Differentiations

# Business Milestone



Computer  
Consumer



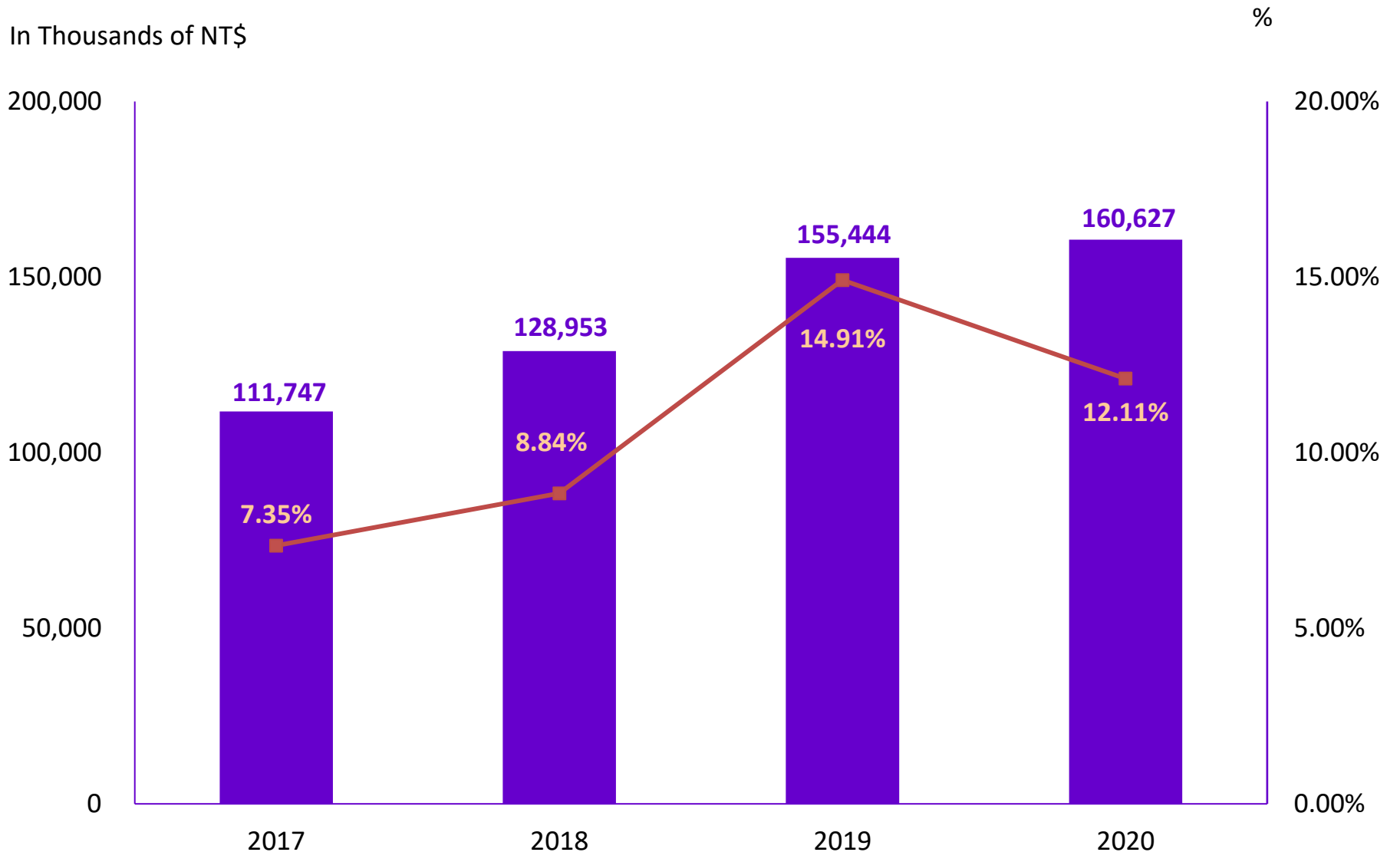
Automotive Solutions  
Power & Energy

## Automotive Solutions



Power & Energy

## RD Expense and Ratio over Revenue





## WW #2

### RF Dual-Band Universal TPMS



## WW #1

### BLE TPMS



Internal TPMS



External TPMS



Voice Dongle



Voice Display



Truck Repeater



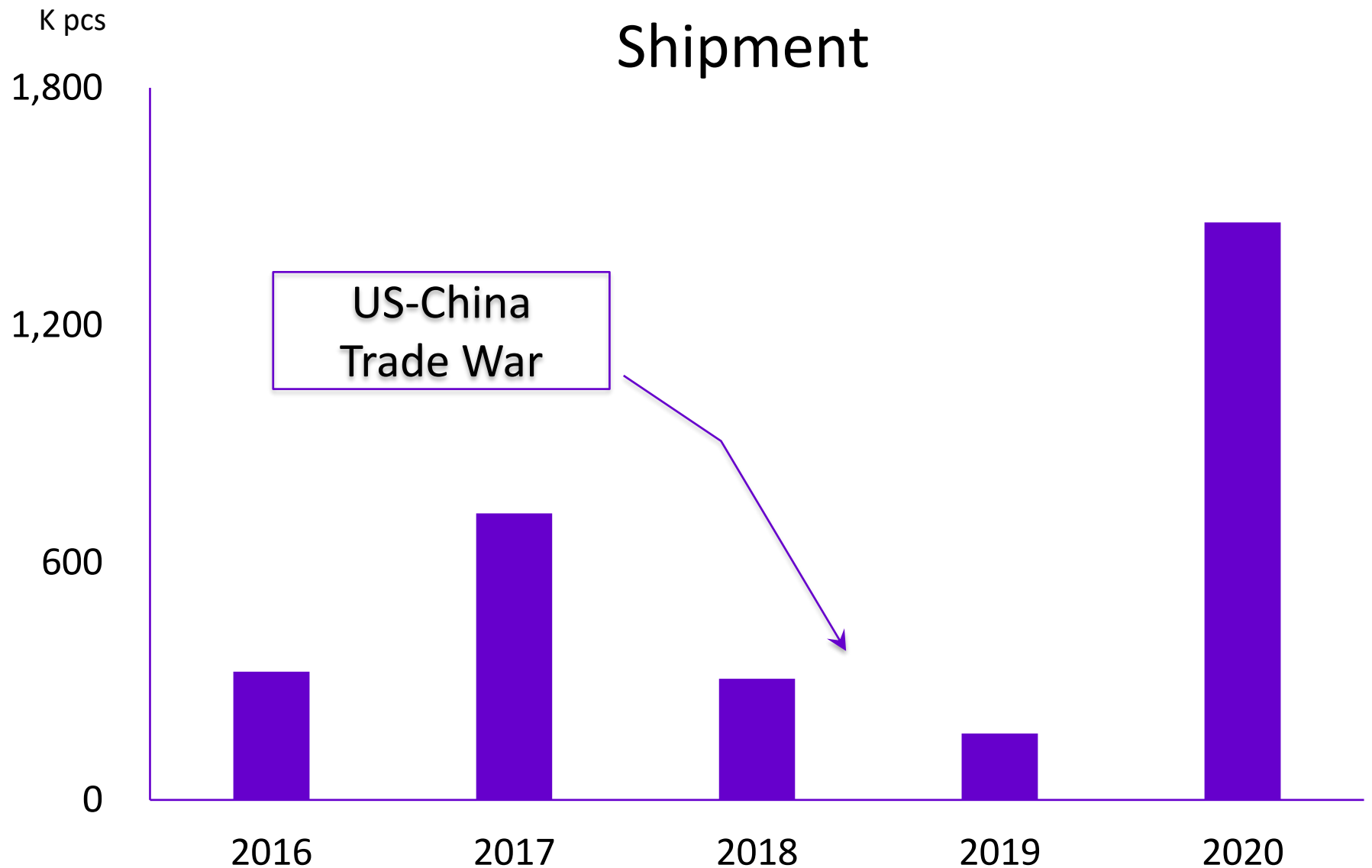
Truck Trigger Tool

## WW #1

### BLE+RF Tri-Band TPMS



# Value Differentiation → High-Growth Business



# Energy Storage Market and Sysgration Li-Ion Based Energy Storage Solutions

# Taiwan's Power Consumption Numbers

**SYSGRATION®**

◆ Taiwan's 2020 Power Consumption:  $280 \times 10^9$  KW·h

◆ 3nm Semiconductor Fab:  $7 \times 10^9$  KW·h/Year

◆ 2021/5/13 2:37PM Taiwan Blackout Issue:

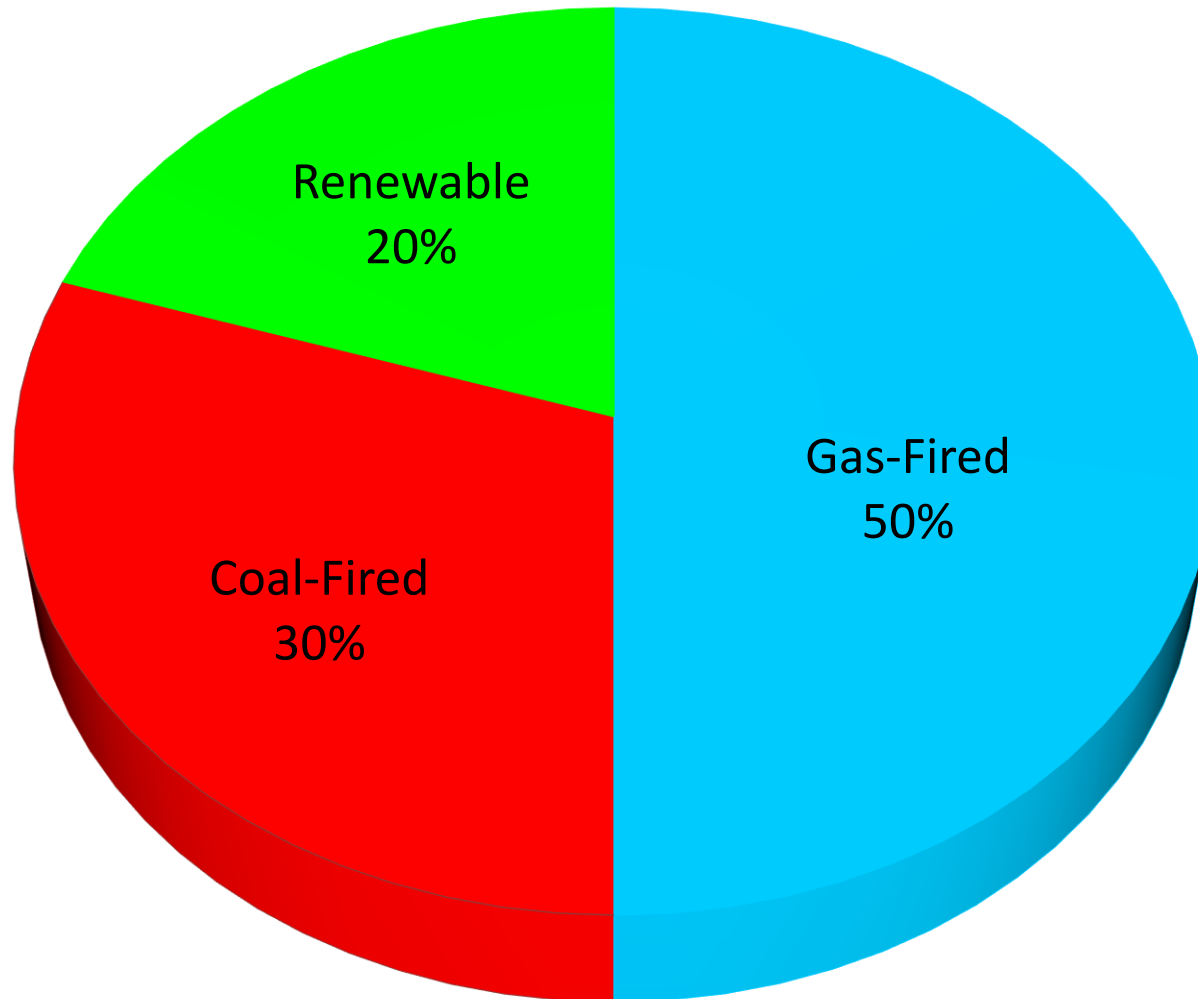
- Issue in a KaoHsiung High-Voltage Substation
- HsinTa Power Plant Suffered a Major Failure
- 2 Coal + 2 Gas-Fired Generators Tripped
- Lost 2M KW Generator Capacity
- 5-Hour Rolling Blackout, Short of 10M KW·h



x5,000 Sets  
Issue Closed!

Sysgration 2,000 KW·h  
40" Container Based ESS

## Taiwan's 2025 Target of Energy Sources



## ◆ Money-Saving and Financial Management

Is As Important As Money-Making

## ◆ Energy Storage and Management

Is As Important As Power Generation



→ Required for Both Renewable and Non-Renewable Energy

→ Required for Wherever Electricity Is Used

Power **Without End**  
Power **On Demand**





# ESS Specifications – Water Storage Example



- ◆ Storage Capacity (Liter, Ton)
- ◆ Inlet Flow Rate (L/min, Ton/hr)
- ◆ Outlet Flow Rate (L/min, Ton/hr)



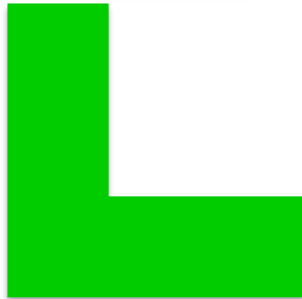
Water Plant  
→ Transmission  
→ Distribution  
→ Consumer  
+ Mobility





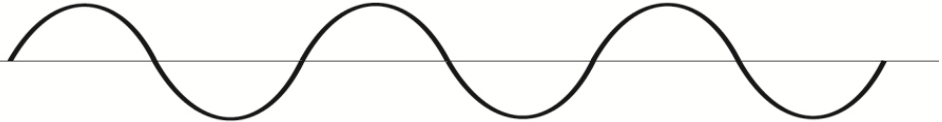


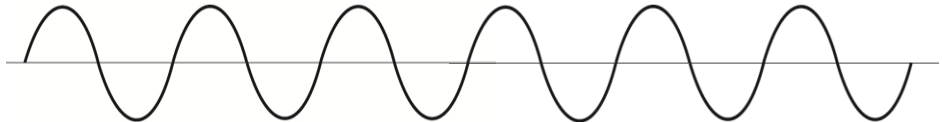
- ◆ Storage Capacity (KW·h, MW·h)
- ◆ Charging Rate (KW·h/min, C Rate)
- ◆ Discharging Rate (KW·h/min, C Rate)



Power Plant  
→ Transmission  
→ Distribution  
→ Consumer  
+ Mobility



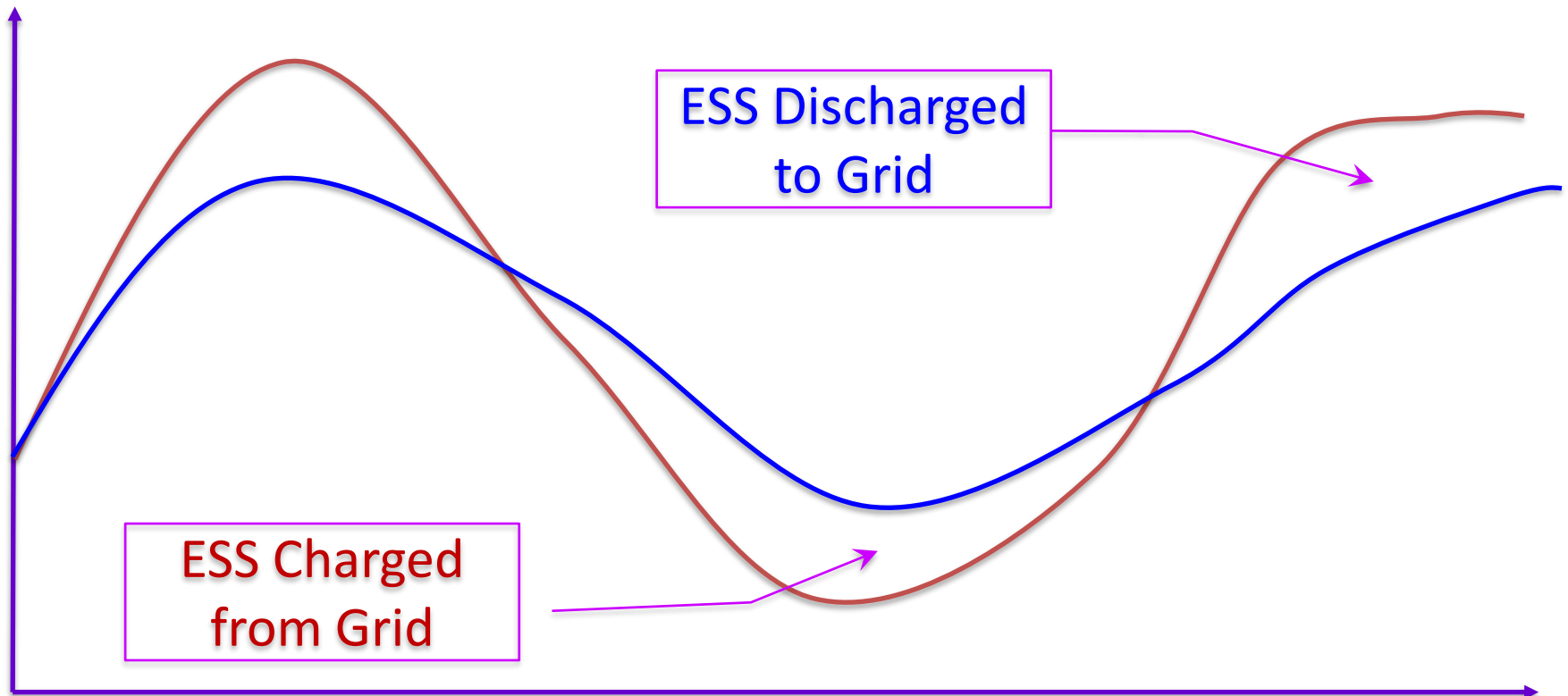
◆ Generation < Consumption,  $f \downarrow$  

◆ Generation > Consumption,  $f \uparrow$  

## Impacts from Frequency Drift:

- Magnetic Flux Changed
- Load Current Changed
- Load Loss Changed
- Protection Circuit Activated
- Power Outage

- ◆ Lower Impacts to Environment
- ◆ Cost Savings on Generator Facilities
- ◆ Cost Savings for Consumer
- ◆ Better Power-on-Demand Flexibility



## ◆ Energy Storage System (ESS):

- Alternative for Regular Supply
- Energy Density
- Low C Rate



## ◆ Uninterrupted Power Supply (UPS):

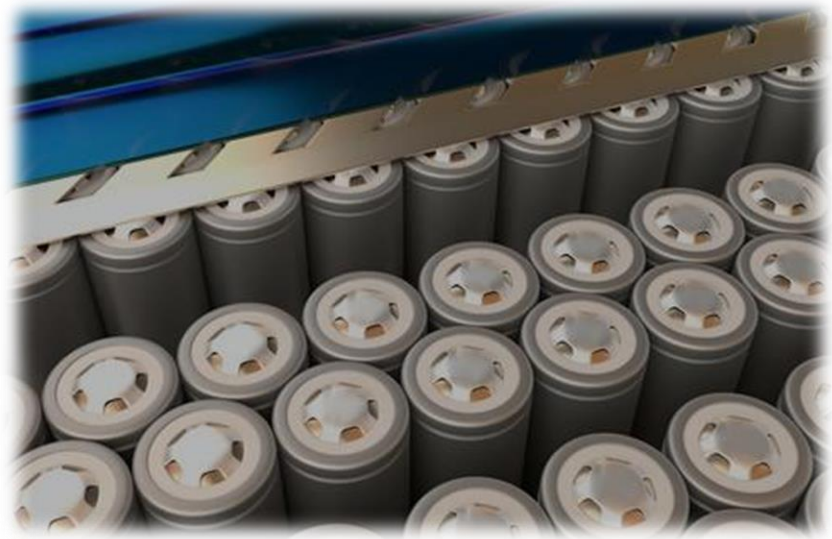
- Backup for Emergent Outage
- Power Density
- High C Rate



→ Both Require Large Quantity of Battery Cells

# Why Li-Ion Solution Superior to Lead-Acid SYSGRATION®

- ◆ More Environment Friendly
- ◆ Less Hazard Substances
- ◆ Higher Energy Density
- ◆ Higher Power Density
- ◆ Smaller Volume
- ◆ Longer Lifecycle
- ◆ Lower Maintenance Cost
- ◆ Lower Air-Con Cost



# Sysgration's Li-Ion Based ESS Solutions

**SYSGRATION®**

Peak Cut/ Peak/Energy Shift

System Stabilization

## Home and Business



Homes



Small Stores

## Community



Medium-Size  
Stores



Schools/  
Community  
Centers  
(Fire Stations)



Buildings



Factories

## Grid Support



Solar/  
Wind Power



Power Plants



10KWh



50KWh



2MWh



## ◆ 2MWh 40" Container Li-Ion ESS

- Air-Con
- Fire-Fighting System
- For Factory/Corporate Time-Shift
- For Power Plant AFC



## ◆ 92KWh Li-Ion Power Brick

- IP55 Compliance
- PCS, Air-Con, Fire-Fighting System
- For Corporate/Community Time-Shift
- For Fast Response Resources (FRR)





## ◆ 1.2KWh Li-Ion Battery Pack

- Drop-In Replacement for Lead-Acid
- 3x Life than Lead-Acid
- High C Rate
- For Factory and Data Center UPS



## ◆ Battery Management System (BMS)

- 3% Low Power Consumption
- Smart Balancing Algorithm for Better Safety, Efficiency, and Cell Life





# Sysgration's Commitment – Global Sustainability

- ◆ High Added Values
- ◆ High Efficiency
- ◆ Energy Saving
- ◆ Battery Rejuvenation
- ◆ Light-Weight Solutions





# Thank You