



Local Thai Supplier

1960

Somboon Spring Ltd.

Somboon Malleable Iron

into REM market

1962: Establishment of

1975: Establishment of

Ltd. ("SBM")

#### From REM to OEM



1980

**Expansion Footprint** 



Enhance People's

Capabilities



Growth South

สินบูรณ์ สร้าวสมุติ

2020

1977: Establishment of Bangkok
Spring Industrial ("BSK")
with Technical Assistance
("TA") from Mitsubishi
Steel (1983)

Somboon Spring
 transferred operation
 to Bangkok Spring (BSK)

1984: Began the move into OEM market 2000

1990 : JVs:

- Yamada Somboon Co.,ltd.
- Tsuchiyoshi Coated Sand Co.,ltd.
- Nishinbo Co.,ltd.
- Somboon Somic Co.,ltd.

1995: Establishment of Somboon

Advance Technology ("SAT")

with Technical Assistance from

Gohsyu and Ibara Seiki

2005 : SAT get into Stock Exchange Thailand

> Name change to "Somboon Advance Technology PCL."

2005

**Listed Company** 

2006 : Bought up International
Casting Products.
("ICP")

2010

2014 : Establishment of Somboon

Forging Technology ("SFT")

 Establishment of Somboon Learning Academy ("SLA") 2017 : SAT J/V with Mubea established new company name "Mubea Somboon Automotive" ("MSA")

2020 : SAT J/V with Siasun established new company name "Siasun" for

System Integration Service

2022 : SAT J/V with Tron Energy established new company name Somboon Tron Energy Co.,Ltd. ("STRON")

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SAT **KEY PRODUCTS** 





SFT **KEY PRODUCTS** 





MSA **KEY PRODUCTS** 







Coil Spring

Leaf Spring

Stabilizer Bar

SBM / ICP **KEY PRODUCTS** 



Front Axle Ass'y



Brake Disc



Brake Drum













### ABOUT US: Tron-e Business Structure



Tron Energy Technology was founded in 2011, with primary focus on R&D and production in the green energy industry.

Cathode Material > Battery System > Electric Bus > Autonomous Bus > Energy Storage System.



Set up



Telecom **Base Station UPS** 



12M Low Floor



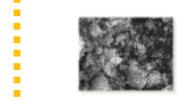
**EV Bus Market Share NO.1** in 2018

8.8 M Low Entry









LFP Cathode Material 🖥



Battery System •

Giga Storage /Giga Solar

> (Strategic Investor)



**Energy Storage System** 

Joint Venture with Somboon



### Head quarter and factory located in Taoyuan City, Taiwan

# Production Capability: 300 EV Bus + 300 EV Bus Chassis









Factory No.2 (New)



### **New Factory Plan**

- Total 50,000 Square Meter
- Production Capability: 500 EV Bus + 500 Electric Chassis

A: Vehicle Manufacturing



**B**: Parts Manufacturing



C: HQ and RD



# **Thailand Market Product Line**



**Autonomous EV** 



**Electric Bus** 



Electric Rolling Chassis



Energy Storage System













Electric TukTuk

Electric Forklift Battery

Charger

Electric VAN

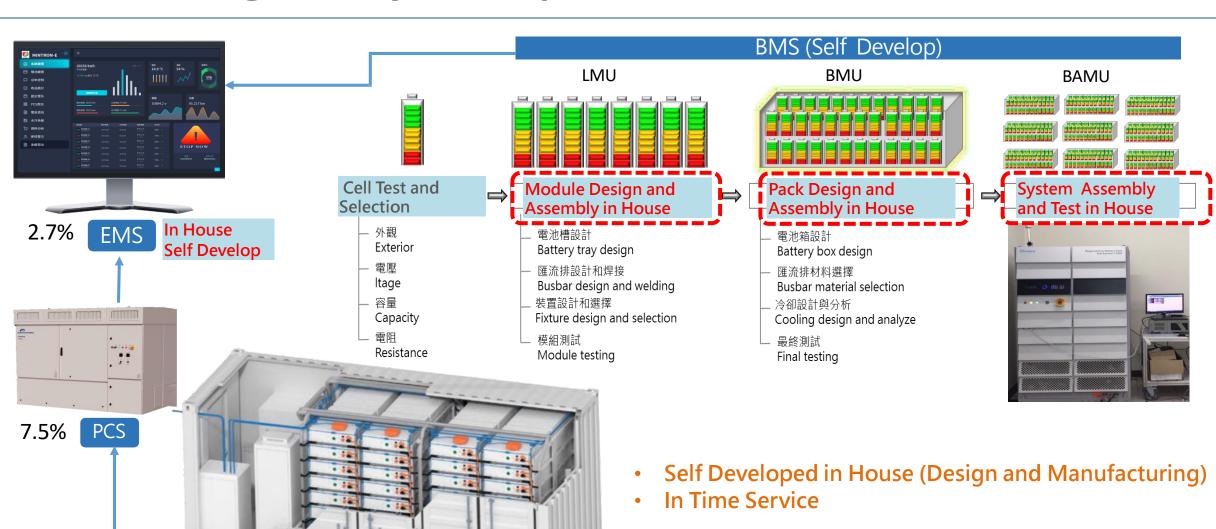
**Electric Primemover** 

# Our Advantages - Self-Development

89.7%

ESS





# Our Advantages - FMS

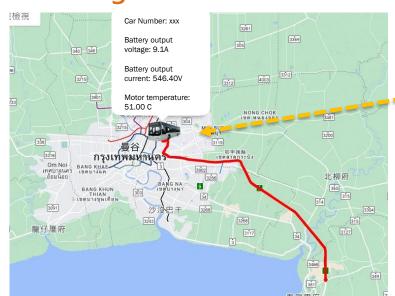


World wide real time monitoring

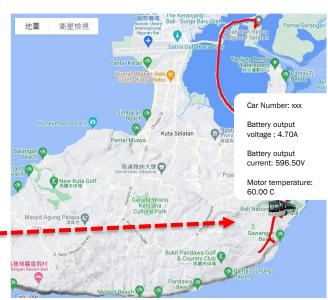




# Bangkok





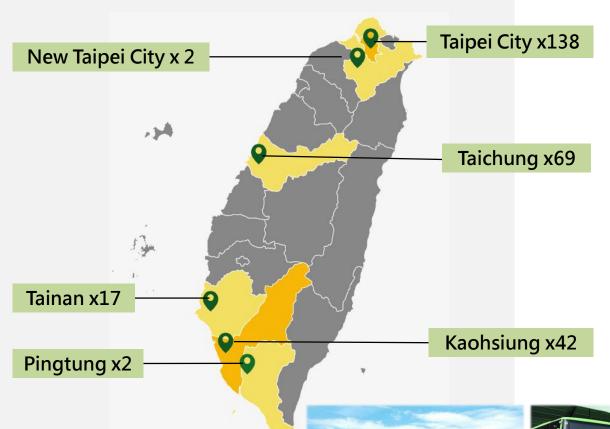


Bali

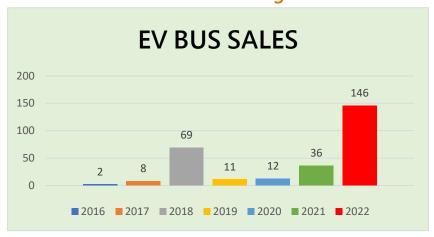
# Track Record - Taiwan Electric Buses Over 300 EV Bus till Q2 2022



Because of the high availability, in 2018, within only 2 years, Tron-e supplied over 50% of market demand for EV bus across Taiwan, which brought us to the position of No.1 in domestic market of year 2018 and obtained valuable experience in operating the electric bus fleet. This is also the clear proof of our competitive advantages in the electric bus market.



Total sales of Tron-e market share ranking No.1 till Jan 2023.



By replacing 300 diesel bus with an electric bus can reduce carbon emissions by planting more than 870,000 trees each year





### Track Record - Worldwide Electric Buses





# Track Record- Autonomous (x Partner)





2018 | Taoyuan Agriculture Expo Shuttle Taiwan first autonomous pilot project



2018 2019 2020 2021 2022 2023

#### 2019 | Taoyuan City Self-driving Bus Trial Project (Taoyuan Metro Factory)



at 6001

2019 | Lihpao Resort Shuttle



糖證	期程規劃	驗證內容
POC	2018/9-2019/8	自動駕駛小巴/中巴開發 封閉區域自駕接駁車技術方案評估與 實證
POS	2019/9-2019/12 (免費試營運)	封閉園區自動駕駛接駁服務場域實證 人車分流與安全管理機制規劃與實證 循運管理系統導人與實證
РОВ	2020/1~2020/8 (導入拆帳/収費機制)	遊樂園拆帳機制設計與實證 趙運管理制度規劃與設計與實證 未來永續財務機制評估



2021 Taoyuan Metro Station A17 – public area pilot run



桃園青埔自黨巴士 https://www.youtube.com/watch?v=nooxoWRndRk&feature=youtu.be

# Track Record - Energy Storage System



#### **Longtan Factory**

- **IPS**
- 1.3MWh



**UPS** 384V/80Ah







### Kinmen County

- Backup Power
- 371V/80Ah



#### **Longtan Factory**

- Back Power (Peak Shaving)
- 396kWh(6櫃、18Pack)



- Solar Storage
- 3.8MW/14.8MWh



#### Taiwan High Speed Rail, **Tainan Station**

- **UPS**
- 384V/80Ah



# Chunghua Telcom

- **Back Power**
- 51.2V/768Ah



### Wakayama, Japan

- **Backup Power**
- 369.6V/40Ah



- **AFC**
- 1.5MW \ 4.9MW



