

Mobiletron Electronics Co., Ltd.

Online Joint Investor Conference for Mobiletron
Electronics and RAC Electric Vehicles

2024/12/12



Disclaimer

Except for historical information contained herein, the matters set forth in this presentation are forward looking statements that are subject to risks and uncertainties that could cause actual results to differ materially. These forward looking statements are not based on historical facts but rather on management's expectations regarding future growth, results of operations, performance, future capital and other expenditures, competitive advantages, business prospects and opportunities. Statements in this presentation about our future plans and intentions, results, level of activities, performance, goals or achievements or other future events constitute forward looking statements. Wherever possible, words such as "anticipate", "believe", "expect", "may", "could", "will", "potential", "intend", "estimate", "should", "plan", "predict", or the negative or other variations of statements reflect management's current beliefs and assumptions and are based on the information currently available to our management.

Investors are cautioned not to place undue reliance on these forward looking statements, which are made as of the date of this presentation, and we assume no obligation to update or revise any forward looking statements.



Mobiletron Electronics Co., Ltd.

INTRODUCTION

Presented by: Kim Chairperson



Introduction of Mobiletron

- ◆ Founded : July, 1982
- ◆ Employees : 1,100~1,600
- ◆ Listed in Taiwan Stock Exchange : 2001/4/6
- ◆ Market : Export to more than 100 countries
- ◆ Major Products :
 - Electric Bus
 - Automotive Electronics
 - Industrial & Automotive lithium battery tools

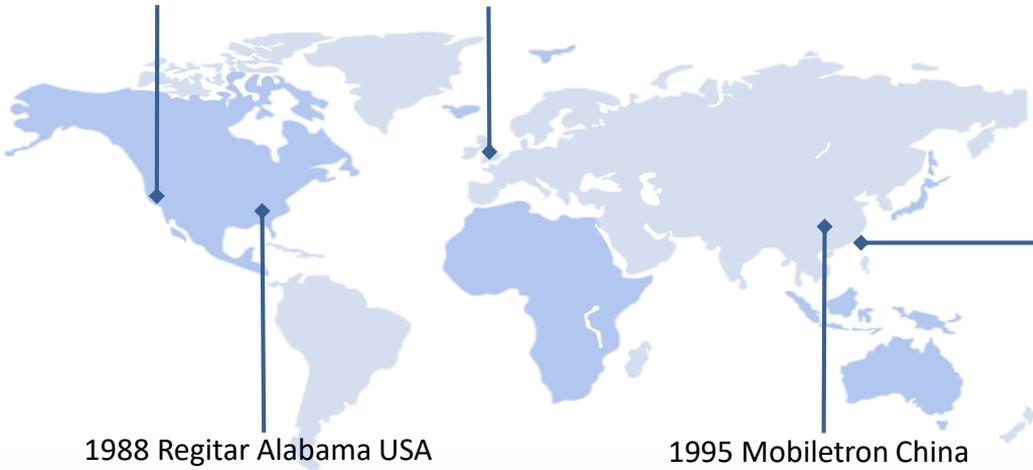




2009 Durofix California USA



2000 Mobiletron U.K.



1988 Regitar Alabama USA



1995 Mobiletron China



1982
Mobiletron Taiwan



2005
RAC(TW) RD Center



2022
Taichung Factory



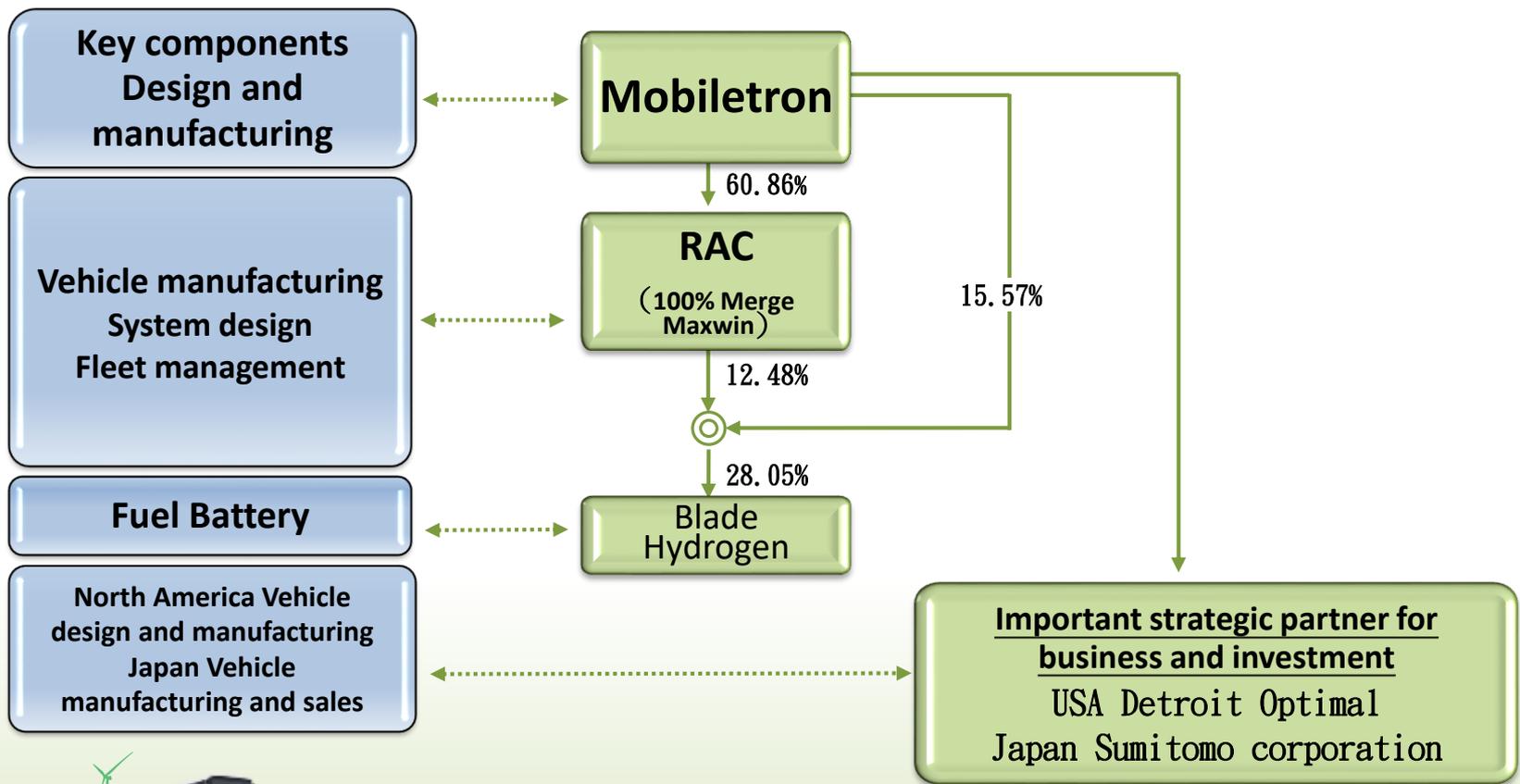
2004
MAXWIN
(Merged into RAC on 2024/7/11)



2022
Blade Hydrogen Green
(Major investors)



Chart Of Investment In Electric Commercial Vehicles and Industry Development





Cell To Pack Battery Pack



High/ Low Voltage PDU



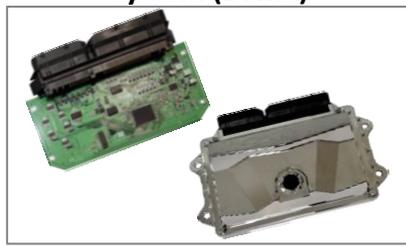
Battery Thermal Management System (BTMS)



Remote I/O



BMS / LKA



Vehicle control unit (VCU)



High Voltage Harness and Plug



TPMS



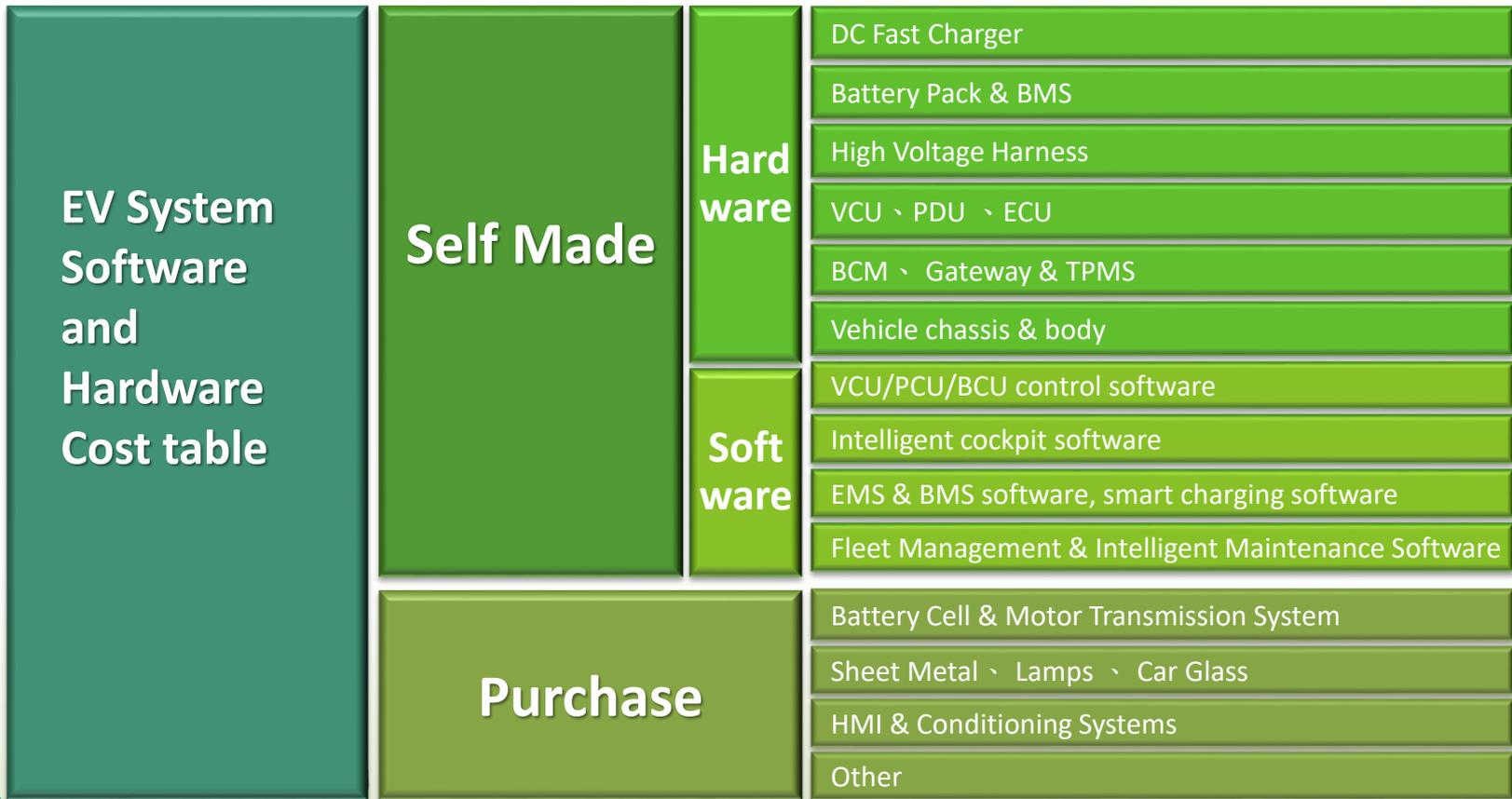
IoT Gateway



120~320kW Chargers (GB/CCS1/CHAdEMO)



High Proportion of Independent Design and Manufacturing of Software and Hardware



Vehicle Energy and Battery Management System:

Taiwan is the only one certified by the **EU-TUV-ECE-R100-3**

BMS-031 VSCC 56-3



Référence: E13*100263.02*0375*00

Annexes: Rapport Technique
Fiche de Désignation de constructeur

L4070 Batterie

Dérivés, le 25 mars 2024



Communiqués concernés:
Communiqué homologation

E13

DELIVRANCE D'HOMOLOGATION
JURIDIQUEMENT GARANTIE
L'EXÉCUTION D'HOMOLOGATION
APPROUVÉE
LE RETRAIT D'HOMOLOGATION
APPROUVÉ
L'ARRÊT DÉFINITIF DE LA PRODUCTION
APPROUVÉ

d'un type de SRSEE en tant que composant/élément technique distinctif conformément au Règlement N° 100
et à l'ETSI 02 type de composant/élément technique distinctif (Précision du Règlement No. 100)

Numero d'homologation:

Approval number: E13*100263.02*0375*00

1. Marque de l'entreprise ou de constructeur du SRSEE:

Mobisem

2. Type de SRSEE:

13322803

3. Nom et adresse du constructeur:

Mobisem Electronic Co., Ltd
No. 15, Sec. 4, Chung-Chang Rd., Ts-Ts District,
Taichung 405, Taiwan, R.O.C

4. Le cas échéant, nom et adresse du représentant du constructeur:

not applicable

5. Description du SRSEE:

refer to manufacturer's information document

4. Restrictions d'installation applicables au SRSEE telles qu'elles sont définies aux paragraphes 6.4 et 6.6:
Installation restrictions applicable to the SRSEE as described in Paragraph 6.4 and 6.6

Only for vehicle manufacturer:
EAC: Mobisem, Velancho Int.
Vehicle chassis type:
KAC-709-1286(1), KA27430-00109

7. SRSEE prévus à l'homologation le:

10/04/2024 - 23/07/2025

8. Service technique chargé des essais:
Technical service responsible for conducting approval tests:

TUV Rheinland Knowledge Center

9. Date du procès-verbal délivré par ce service:
Date of report issued by this service:

08/03/2024

10. Numéro du procès-verbal délivré par ce service:
Number of report issued by this service:

84-R100-0300103-00

11. Emplacement de la marque d'homologation:
Location of the approval mark:

refer to manufacturer's information document

11. Raison(s) de l'exclusion de l'homologation (le cas échéant):
Reason(s) for omission of approval (if applicable):

not applicable

13. Homologation Approuvée:

granted / released / released / released

14. Loi:

Batterie

15. Date:

25 mars 2024

16. Signature:

Four: le Ministre de la Mobilité
et des Travaux publics

Phi PHILIPPE
Attache

Four: le SRSEE

Laurent LINDEN
Directeur opérationnel



17. Les documents accompagnant la demande d'homologation ou d'exclusion peuvent être obtenus sur demande.
The documents filed with the request for approval or submission by the Vehicle category:

see index to type-approval report



財團法人車輛安全審驗中心
Vehicle Safety Certification Center

509829 彰化縣臺灣橋邊二光二路五號
TEL:84-7812168 FAX:84-7812555
No.2,Chung 2,Sec.2, Taichung County 509829 Taiwan R.O.C

車輛安全檢測基準審查報告

Examination Report for Vehicle Safety Testing Directives

報告編號: A113CCBE-563
Report No.

製發日期: 2024/09/09
Date of Issue

報告類別: 新型式審查
Category of Report: Examination of New Type

申請者: 車王電子股份有限公司
Name of Applicant

申請者地址: 臺中市大墩區文華里20鄰中清路4段85號
Address of Applicant

法規項目名稱: 五十六之三、電磁相容性
Regulation: SS-3 Electromagnetic Compatibility

廠牌: MOBILETRON
Trade Name

型式系列: BMS-031
Type (Series)

型式名稱: 參照附件第1頁
Type Name: See the attachment (Page 1)

檢測機構: 優力國際安全認證有限公司
Technical Service

檢測報告編號: 4791315164A-GN-A0-F4
Test Report No.

審查結果:
Examination Result:

符合「車輛型式安全審驗管理辦法」第十四條
規定及「車輛安全檢測基準」五十六之三規定
Complies with article 14 of "Vehicle Safety Type
Approval Management Regulations" and SS-3 of
"Vehicle Safety Testing Directives"

周維果

檢驗員/執業技師 檢驗單位/主任技師

本報告會增加3頁, 不予換發證書。
Examination report will be updated 3 pages.
Copy and distribution are prohibited.

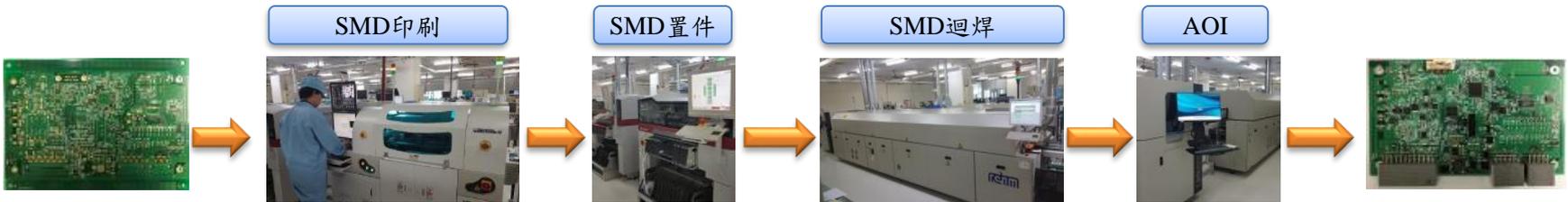
財團法人車輛安全審驗中心 執行長
Vehicle Safety Certification Center CSO

補充說明:

Additional Information:

1. 本報告會增加3頁, 不予換發證書, 有效期限係指送件時檢附之工廠品質管理程序及其效力。
The examination report will be updated 3 pages and distribution is prohibited since the issue of it, or
extension upon the expiration of term of it, the applicant should a member of the report.





主生產項目

EMS Vehicle power management system

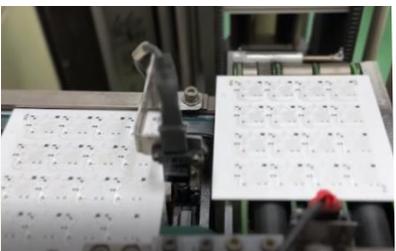
- BMS: 電池管理控制單元
- CMU: 電池監測控制單元
- AMB: 主動均衡控制單元
- CHG: 充電機通訊控制單元
- LKD: 漏電偵測控制單元
- VCU: 車輛控制單元

車用電子生產綫

- IATF 16949 品質管控
- 批次管控、單件UID管控
- MES & Shop floor
- 產品追溯 (作業者、材料批次號、設備、生產參數)
- SPC品質管控、異常追蹤
- E-SOP、防呆操作系統車用電子生產系統



HIC printing



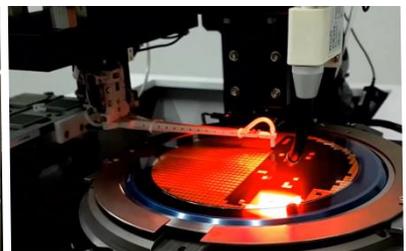
High speed laser trimming



High speed chip mounting

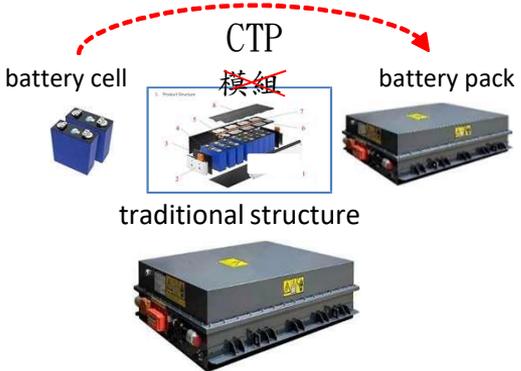


Bare die pick & place



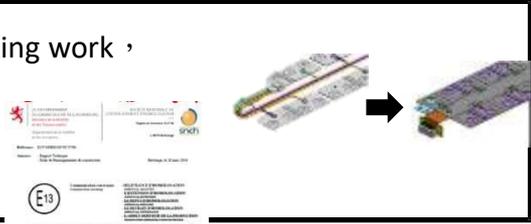
Wire Bonding



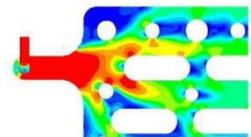
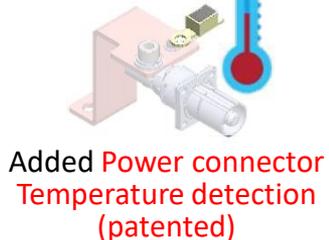
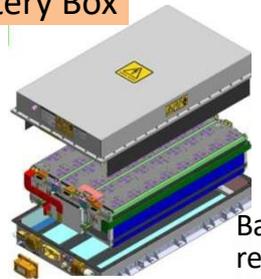


Battery Module

- CCS integrated detection circuit design saves screw locking work , **Integrated all-in-one architecture**
- only in Taiwan that has passed TUV ECE R100.3 certification



Battery Box



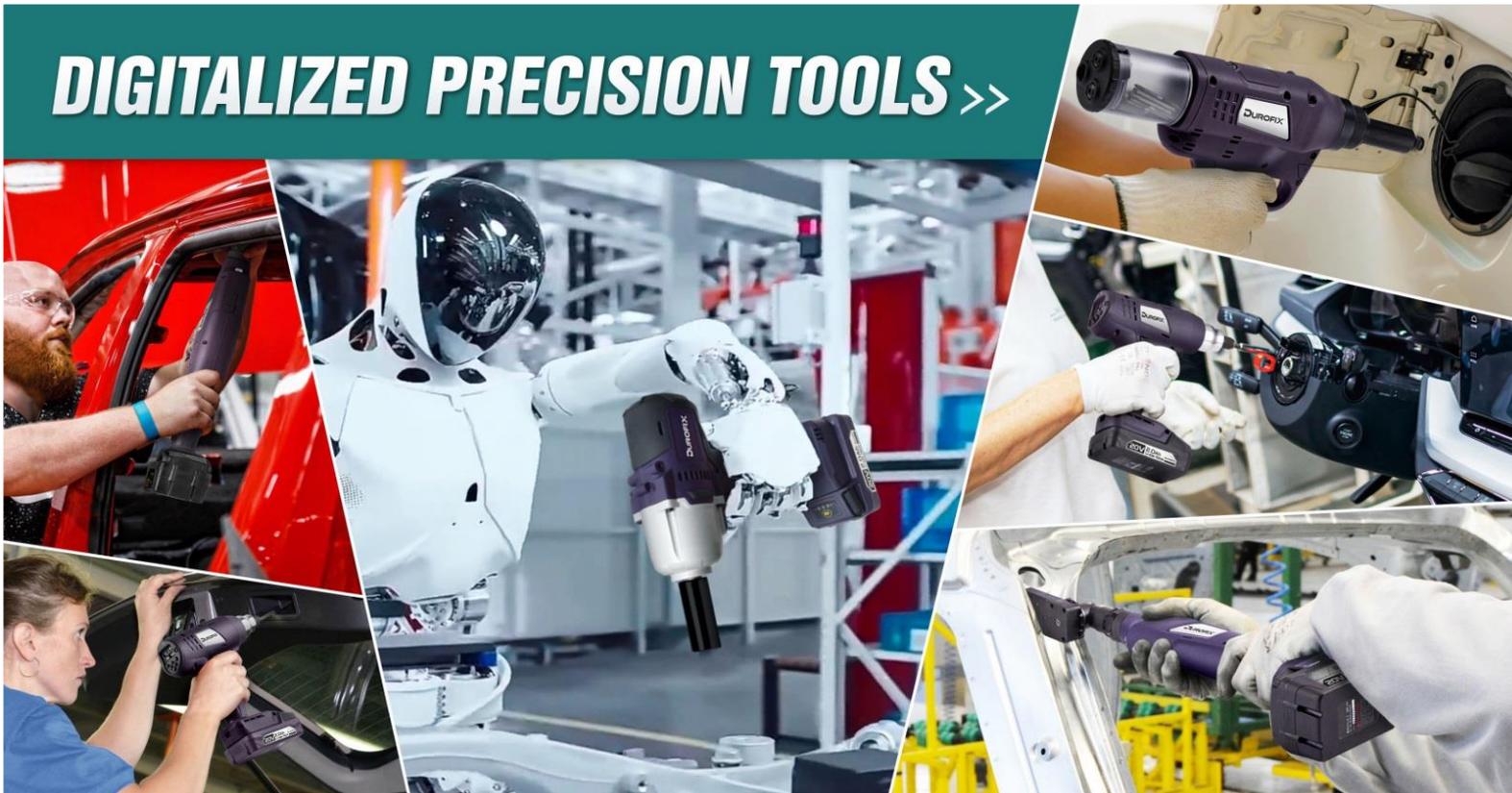
The Battery cell temperature is controlled at **25±3°C**



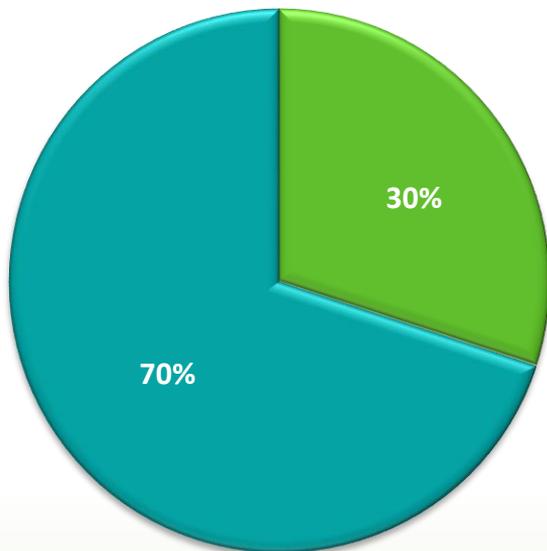
Fully Automatic Battery Soft Plate Laser Welding Technology



DIGITALIZED PRECISION TOOLS >>



2024 Year



■ Auto Repair / Construction Tools ■ Assembly Tools

Assembly Tool Revenue Account for Approximately 70% in 2024

Intelligent Assembly Tools have been Successfully Adopted by Major Car Manufacturers.

Customers include :

- **Taiwan** : K. 、 F. 、 Y. ◦
- **China** : B. 、 G. 、 S. 、 K. 、 H. 、 F.... ◦
- **India** : T. 、 S. 、 L. ◦
- **Southeast Asia** : T. 、 S. 、 S. 、 K. 、 M. 、 V. 、 W. ◦
- **America** : D. 、 S.(ODM) ◦
- **Central Asia** : T. 、 F. 、 H. 、 K. 、 J. ◦

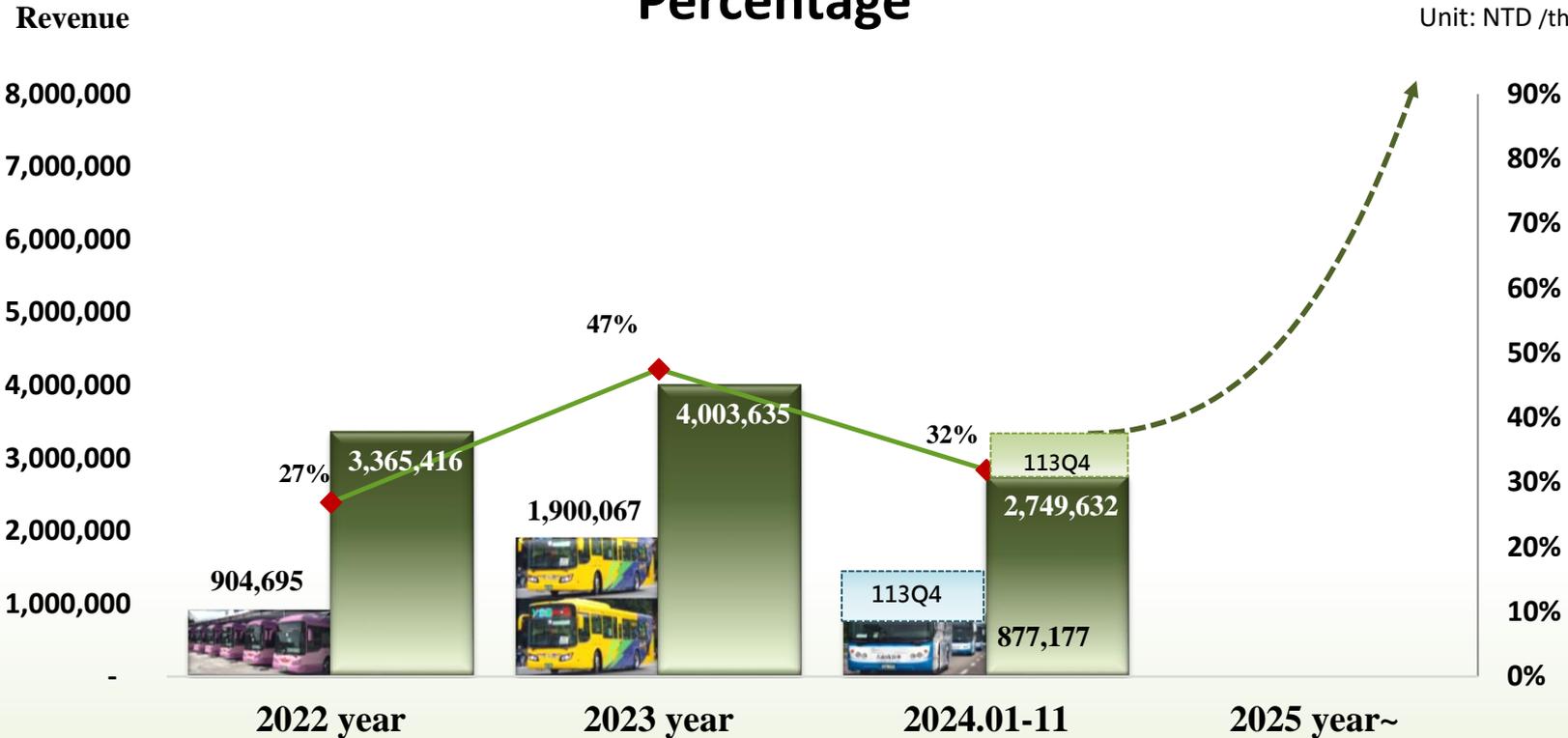


Business Performance

Presented by: Will Chan



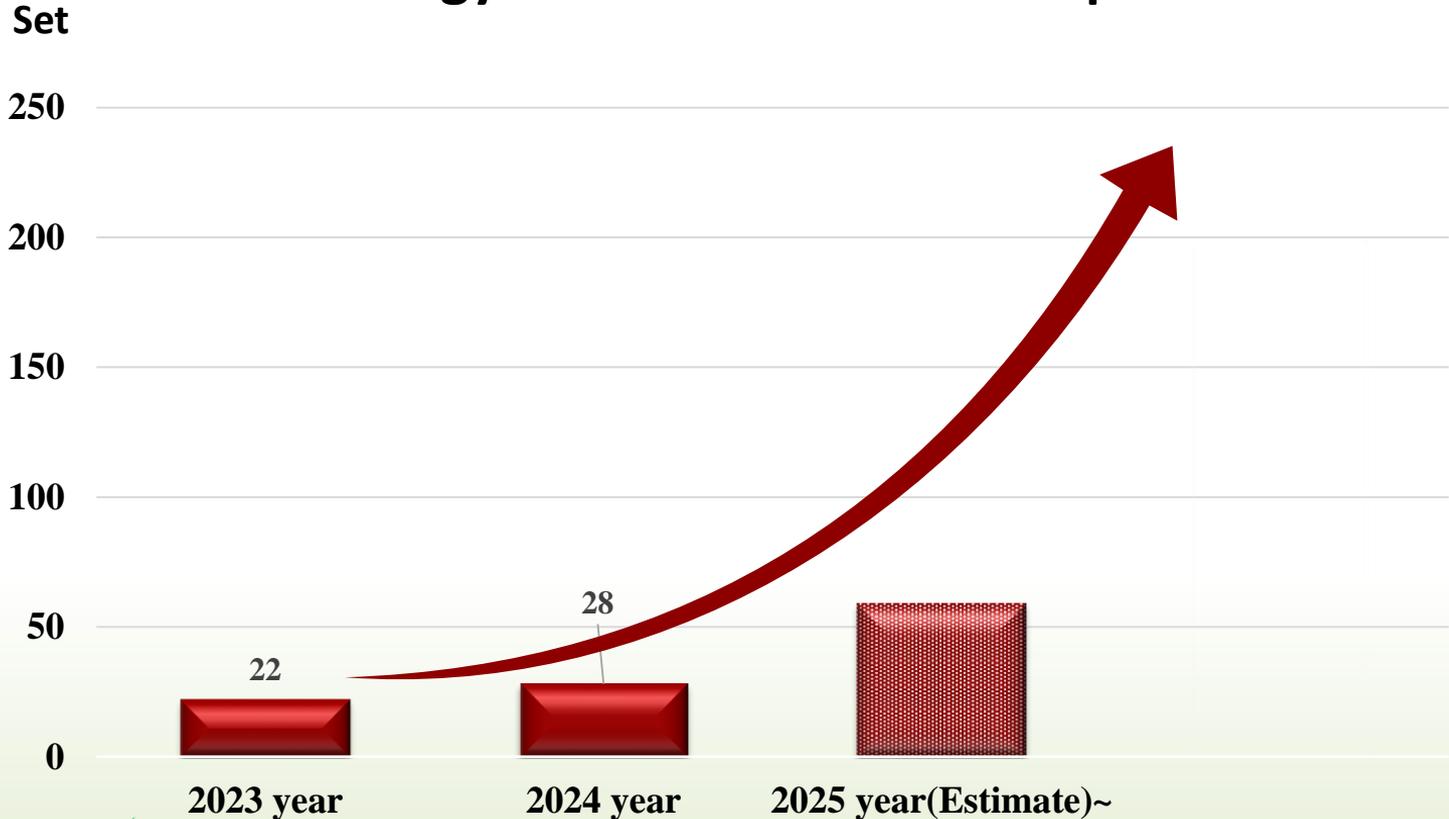
Unit: NTD /thousand



Electric vehicle revenue Group revenue Percentage



Electric Bus Complete System & Technology Sales Trend Chart in Japan



Unit: NTD 1,000

	2021		2022		2023		2024. 1-9		2024.10-11
	The Group		The Group		The Group		The Group		The Group
	\$	%	\$	%	\$	%	\$	%	\$
Operating Revenue	2,932,537	100.0	3,365,416	100.0	4,003,635	100.0	1,965,234	100.0	784,398
Gross Profit	877,190	29.9	876,139	26.0	768,100	19.2	455,954	23.2	
Operating expenses	848,095	28.9	967,996	28.8	1,010,776	25.2	752,124	38.3	
Operating (Income) Loss	29,095	1.0	(91,857)	(2.7)	(242,676)	(6.1)	(296,170)	(15.1)	
Non-operating Income & Expenses	8,651	0.3	50,523	1.5	33,875	0.8	(1,344)	(0.1)	
Pre-Tax (Income)Loss	37,746	1.3	(41,334)	(1.2)	(208,801)	(5.2)	(297,514)	(15.1)	NA
Net (Income) Loss	12,876	0.4	(64,234)	(2.0)	(221,397)	(5.5)	(313,955)	(16.0)	
Net profit of the current period belongs to Headquarters	86,629		41,279		(129,448)		(181,123)		
Capital	985,474		985,474		985,474		985,474		985,474
EPS	0.88元		0.42元		(1.31)元		(1.84)元		



Thank you!

