Hybrid 2035
E-MOBILITY TAIWAN
台灣國際智慧移動展
主辦單位: TAITRA
2023年4月12-15日 TaiNEX 1
www.e-mobilityshow.com.tw
展覽特刊 SPECIAL ISSUE

2035 E-Mobility Taiwan 盛大開展
搶攻全球智慧移動商機

由外貿協會主辦第二屆「台灣國際智慧移動展 (2035 E-Mobility Taiwan)」於今年 4 月 12 日至 15 日在台北南港展覽館 1 館 4 樓盛大舉行，展出電動車、電動巴士、三電系統、ADAS、車聯網、智慧座艙技術等智慧移動解決方案，完整呈現智慧移動生態系，滿足國內外市場需求。

其中，成運汽車、和泰汽車分別展示新款電動巴士、電動車及氫能車；格斯、迪吉亞、馳諾瓦、台達、太平洋電線電纜、士林電機、星博電子、台灣車輛移動研發聯盟 (mTARC) 將展出電池、馬達、充電設備；公信電子、研華、智易科技、台灣車聯網產業協會 (TTIA)、科絡達則展出車輛導航、駕駛行為及車輛狀態偵測、空中升級技術 (OTA) 等智慧車聯網應用科技。

中華民國對外貿易發展協會董事長 黃志芳

4 月 13 日登場的「電馳智駕 - 智慧移動論壇」邀請加拿大安大略省汽車創新協會、波蘭替代燃料協會代表剖析電動車市場趨勢，並由台達、康舒、MIH、和碩、恩智浦、德州儀器等電動車、半導體指標大廠，從永續發展及產業應用兩大面向，協助業者掌握產業脈動、佈局電動車及自駕車市場。

此外，展覽期間還有一系列精采活動等您來參加！包含 E-Mobility Global Demo Day 獲選新創的公開發表會、主題導覽、達人講堂、新產品發表會等，讓您一探最新智慧移動解決方案。更有綠色講堂及減碳諮詢服務，厚植企業永續經營競爭力。

線上展 E-Mobility DigitalGo

線上展E-Mobility DigitalGo同步於 4月10日至4月23日 展出，歡迎業者上線參觀。

「電馳智駕-智慧移動論壇」—驅動產業變革、駕馭智慧未來

■ 時間：112 年 4 月 13 日 (星期四) 上午 10 時至下午 16 時 ■ 地點：台北南港展覽館 1 館 4 樓 402 會議室

上午場

前瞻趨勢 X 綠色變革 剖析電動車發展潛力

時間	議程	講者
10:10 - 10:40	前瞻趨勢 - 產業動態 駛向 2035！ 剖析電動車市場發展關鍵	*Mr. Raed Kadri* 加拿大安大略省汽車創新網絡負責人
10:40 - 11:10	前瞻趨勢 - 國際視野 綠色轉型 遇見循環綠未來	*Mr. Aleksander Rajch* 波蘭替代能源協會董事會成員暨主任
11:10 - 11:40	綠色變革 - 充電樁 低碳時代下的電動車充電與能源基礎設施的發展趨勢	徐瑞源 能源基礎設施暨工業解決方案事業群副總經理 台達電子
11:40 - 12:10	綠色變革 - 新能源 綠色革命興起！鎖定電動車零碳新商機	劉文哲 電動動力本部協理 康舒科技

下午場

產業佈局 X 半導體賦能 實現電動車時代

時間	議程	講者
14:00 - 14:30	產業佈局 - 技術結盟 串聯臺灣科技實力 放眼電動車國際商機	鄭顯聰 執行長 MIH
14:30 - 15:00	產業佈局 - 供應鏈 技術優先！ 乘勢翻轉全球汽車供應鏈	黃中于 董事長特別助理 暨資深副總經理 和碩聯合科技
15:00 - 15:30	半導體賦能 - 軟優勢 軟體定義價值 建構安全連結的智慧車聯網	柯俊守 臺灣區業務協理 恩智浦半導體
15:30 - 16:00	半導體賦能 - 硬實力 站穩電源管理技術領域 推動產業創新變革	陳介平 臺灣業務總監 德州儀器

語言：英文
辦理形式：實體論壇並採全程錄影，之後上傳 YouTube 頻道

睿智創新力 · 驅動新旅程

「經濟部技術處 mTARC 主題館」展示 18 項車輛領域科技專案成果

為了促進臺灣汽車工業與國際交流合作，經濟部技術處於 2005 年 5 月 30 日推動成立台灣車輛研發聯盟(Taiwan Automotive ResearchConsortium；TARC)，自 2019 年 3 月 8 日改為台灣車輛移動研發聯盟 (mobility Taiwan Auto Research Consortium；mTARC)，目前 9 個成員包括：車輛研究測試中心、金屬工業研究發展中心、國家中山科學研究院軍通產業技術拓展中心、資訊工業策進會智慧系統研究所、華創車電技術中心股份有限公司、鴻華先進科技股份有限公司、以及工研院的機械與機電系統研究所、材料與化工研究所與資通與通訊研究所等。

本次經濟部技術處於 2023 台灣國際智慧移動展設立「經濟部技術處 mTARC 主題館」，以「睿智創新力 · 驅動新旅程」為主題，精選出 18 項車輛領域科技專案成果作展示，充分展現法人與產業在車輛產業中自動化與電動化兩大發展趨勢的技術能量，並以三項亮點技術為首：

量產型智慧線控小巴

量產型智慧線控小巴

車輛中心與六和機械合作開發台灣第一部自主量產型之智慧電動小巴，其中電動自製率 100% 為台灣最高，小巴整合國內三電系統，運用 2 家法人新創公司 (優車智能與科飛) 的主動式 ADAS 與整車控制器，已於今年 2 月在墾丁國家公園試營運載客。

國內首創自動駕駛巴士於國家森林遊樂區進行自駕駛駁服務，成功挑戰山坡地形，森林高遮蔽路段、小型動物…等特殊地型與情境。定位系統突破慣用之 RTK 定位系統，採用複合式定位結合 SLAM 定位技術，結合 ADS 相關技術，具備高階智慧系統與高度安全防護機制。整車為台灣設計與製造，包括線控底盤、動力控制、自駕系統、電池…等為目前台灣 MIT 比例最高之智駕巴士。

電動貨車與商用車數位孿生開發平台

本平台技術在電動車開發過程，於虛擬環境中建立車輛、環境、駕駛人模型，執行準確的車輛性能計算，能耗、操控穩定性、車體結構強度等模擬皆具備 90% 以上可信度，可減少 25% 電動車型開發時間，並降低 30% ～ 40% 驗證測試成本，加速國產車輛電動化的腳步。

已導入國內整車廠，應用於電動巴士的車型，以及電動輕型、中型電動卡車型和最具挑戰性的聯結曳引車。

高能量及高安全樹脂固態電池

樹脂固態電池能量高於傳統鋰電池 15%，使用樹脂電解質無漏液、爆炸起火風險，且不需使用高成本添加劑、溶劑等，成本低於傳統電池 3%，研發成果獲 2020 年全球百大科技研發獎 (R&D 100 Awards) 肯定。

已與國內電池廠合作試量產，未來將導入電動車、電巴、儲能系統、泰國電動化運輸工具。此項電池汰役後，容易回收提煉貴金屬，減少鋰電池生產成本 20%，降低電池生產過程排碳量。

高能量及高安全樹脂固態電池

經濟部技術處台灣車輛移動研發聯盟
www.artc.org.tw
M0620

台灣車聯網產業協會推廣車聯網技術之智慧應用

創造車載資通訊產業價值鏈之競爭力

隨著智慧城市浪潮興起，透過通訊快速傳輸訊號，串聯車輛與車輛、基礎設施、行人之間溝通，發展成車聯網技術(Telematics)，已然成為智慧城市的重要環節，帶動整體資通訊產業市場發展蓬勃，臺灣資通訊硬體強、軟體有潛力、服務則融合多元文化創新應用，技術結合服務就是臺灣獨特的優勢競爭力，隨著 5G 時代來臨，跨域創新科技整合與車聯網技術應用將是未來產業重點發展方向，加上資訊及通訊技術為臺灣之核心產業，成長動能豐富，

公信電子

2023 台灣車聯網產業主題館邀集 TTIA 廠商 - 北宸科技、台灣是德科技、公信電子、神通資訊科技、精強科技、佳能企業、立德國際及可取國際等廠商共同展出，期能推廣車聯網技術之智慧應用，同時為產業整合與物聯網技術發展深厚基礎的展示平台。

台灣車聯網產業協會
www.ttia-tw.org
M0320

主題館展出廠商及產品亮點介紹

■ 北宸科技股份有限公司

北極星導航根據車型和政府交通法規及道路限制，規劃合適路徑並提供各式客製化功能服務。

■ 台灣是德科技股份有限公司

其中提供 SA8700A C-V2X 測試解決方案，一款能夠對 R14 或未來更新版本之 C-V2X 裝置執行功能驗證、協定量測和射頻量測的綜合測試解決方案，而此項目也獲得 3GPP 及 OmniAir 認證。

■ 公信電子股份有限公司

此次展出項目為智慧平台車載主機、16-1 數位式行車記錄器及車載資訊系統。其中，智慧平台車載主機的模組化設計，獲得 2023 台灣精品獎。此項產品以高相容性、整合性、開放性的智慧化平台角色，提供各種軟硬體模組搭配的客製化需求，不斷創造產品多樣化的組合方式，其開放性可讓更多廠商投入應用程式的創意設計，帶動車用電子市場的蓬勃發展。

■ 神通資訊科技股份有限公司

MiAIOT 公路智慧運輸戰情中心 (MiAIOT for Bus)，加速數位發展公路智慧運輸戰情中心，轉型填補客運業者營運優化關鍵缺口。

■ 佳能企業股份有限公司

多年來與日本相機製造商培養的“對日本市場的理解”和“高品質系統”，推動了車載影像相關產品的開發。產品特點是“高畫質”、“多種通訊功能”、“高品質與合理成本並存”。

■ 精強科技股份有限公司

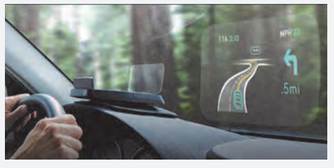
ECSIPC 致力於打造優雅且耐用的交流充電樁，並能多樣化運用在不同場域，如：家庭使用、停車場、商務車隊運營商、EV 經銷商工作室、EV 基礎設施運營商和服務商、高速公路加油站和服務站等。

■ 立德國際商品試驗有限公司

Bureau Veritas 智慧移動市場洞察系列＋。提供安全測試、認證（例如 Homologation (VEO)、V2X 和 OmniAir）協助智慧移動產業。

■ 可取國際股份有限公司

主要經營項目是以研發、製造及銷售雲端網通、物聯網系統、消費性、能源車與智能連結週邊設施之相關電子產品。



電動巴士

成運汽車「快充引領未來」首次公開亮相全國第一台電動城際巴士

為迎接 4 月 12 日至 15 日登場的台灣國際智慧移動展，相信「快充引領未來」的成運汽車，特別規劃在展場內首次發表「全國第一台電動城際巴士」，搭配「充電時間即加油時間」的快充系統，充電從 SOC 20%~80% 僅需 15 分鐘，單日行駛里程更達 500 公里以上。此外，身為電動巴士國家隊，這次展覽亦展出通過交通部 111 年度示範型計畫，採用國產中央馬達的 12 米 2 門低地板電動市區巴士。

成運這次展出的電動城際巴士，是國內首次公開亮相，為臺北至中正機場、臺北至桃園、臺北至基隆、臺北至宜蘭等城際運輸之最適運具，可充分滿足城際之間的里程要求。本車型可以補足臺灣現階段僅有電動市區公車的缺口，加速 2030 公共巴士全面電動化的政策，引領世界走向淨零碳排的美好未來。

12米電動城際巴士

成運汽車製造股份有限公司成立於 2003 年，為擁有自主設計開發能力之巴士製造商，至今製造超過 7,000 輛巴士，累積行駛里程超過 60 億公里，所推出之電動巴士已在臺北市、新北市、高雄市、嘉義市與彰化縣上路服務。

成運汽車製造股份有限公司
www.mastertrans.com.tw
M0820

MASTER
成運汽車製造股份有限公司

充電設備

馳諾瓦 DC 高功率充電樁解決方案 滿足各種場域充電需求

馳諾瓦科技累積多年豐富的 ODM/OEM 經驗，擁有專業知識、技術能力、高標準生產製造品質，一條龍的充電解決方案為國際客戶設計適用於不同場域的高度客製化產品與服務。目前全球已超過 30,000 個充電案場正在使用馳諾瓦高功率快速充電樁的解決方案，多樣化的產品線從慢充、快充、超大容量急速快充，分體樁到大螢幕廣告樁，皆可滿足客戶各種不同的需求。

因應重型或商用車輛電動化快充趨勢，「480kW 四槍一體 DC 直流充電樁」除了可滿足急速快充需求，同時也可提供 4 台車同時充電，硬體結構部分，一體樁的設計也縮小了充電設備的佈建體積，在停車場的安裝及空間配置上更彈性靈活。軟體技術部分，支援動態分配、遠程管理及 21.5 吋觸控螢幕，供客戶更方便管理及操作充電樁。

此外，「240kW 雙槍 DC 直流充電樁」呼應電動車的設計趨勢，擁有適合都會商業場域的時尚流線形機身造型，可客製化機身外觀搭配星芒氣氛燈。在操作面板的螢幕可依需求，提供三種尺寸 (7"/ 32"/ 21.5") 應用在不同場域使用。同時可選配迴旋式自動收回的支臂式槍線管理系統，減輕使用者抬槍重量並提供更好的使用者體驗。

馳諾瓦科技股份有限公司
www.zerovatech.com
M0608

邁向 EV 充電新趨勢 台達 DC Wallbox 50kW 直流充電樁

台達創立於 1971 年，為全球提供電源管理與散熱解決方案。

面對日益嚴重的氣候變遷，台達長期關注環境議題，秉持「環保 節能 愛地球」的經營使命，持續開發創新節能產品及解決方案、不斷戮力提升產品的能源轉換效率，以減輕全球暖化對人類生存的衝擊。近年來，台達已逐步從關鍵零組件製造商邁入整體節能解決方案提供者，深耕「電源及零組件」、「自動化」與「基礎設施」三大業務範疇。

隨著城市充電需求提高，充電樁的建置不僅增加用電需求，其佔地空間也不容小覷，尤其是空間壅擠的城市中，充電樁布建將可能造成停車空間更顯緊張。台達 DC Wallbox 50kW 直流充電樁為超薄型設計，厚度僅 25 公分，較同類型充電樁佔地面積縮小 60%，並提供立柱或壁掛式安裝選項，融入城市現有的停車空間。理想情況下，50kW 充電功率可於 1 小時補充約 200 公里程所需電力。採用台達高效電源模塊，為業界最高的 97% 電源轉換效率，減少充電過程中的電力浪費，節省充電場站的電力成本。

台達 DC Wallbox 50kW 直流充電樁支援主流標準充電規格可彈性配置，並採雙充電槍設計可同時為兩車充電，提高充電樁使用周轉率，服務更多車主。內建網路和無線通訊，可連接管理平台遠端進行跨場站的維運管理。為充電站營運商和業主提供最佳空間使用效率和充電站營運效益。

台達電子工業股份有限公司
www.deltaww.com
M0110

DELTA

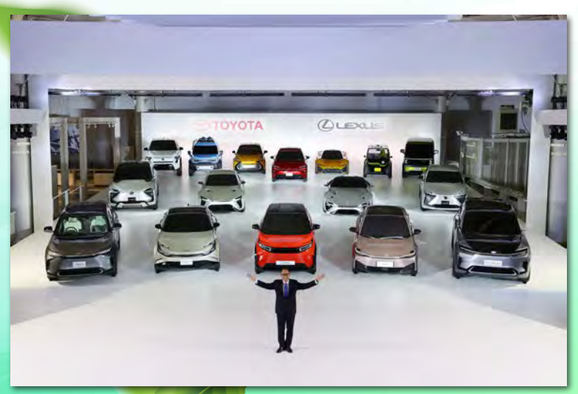
TOYOTA

— 加速實現碳中和 —

TOYOTA持續發展多元電動化車款

TOYOTA已累積30年電動車開發經驗，致力於研發更安全、使用壽命長、低成本且高性能的電池，並透過整合開發及供應體系，提供顧客更優質的電動化車款。

TOYOTA在推進車輛電動化上不遺餘力，累積至今已銷售千萬輛的HEV (Hybrid Electric Vehicle，油電複合動力車)。為地球永續發展，我們將持續提供HEV、PHEV (Plug-in Hybrid Electric Vehicle，插電式油電複合動力車)、BEV(Battery Electric Vehicle，電池電動車)及FCEV (Fuel-Cell Electric Vehicle，氫能電動車)等「全產品線」的碳中和汽車，提供全球顧客因地制宜的不同電動化車款選擇。



bZ4X (BEV) ▼


▲ 搭載TOYOTA最先進的氫燃料電池動力系統 TOYOTA MIRAI (FCEV)　COROLLA CROSS (HEV) ▲


▲ PRIUS PHV (PHEV)

健和興端子股份有限公司

M0806a

ksterminals.com

健和興端子為住宅、工業和充電站 (EVSE) 場景設計並新創研發完整系列的 AC / DC 充電連接器。

電動汽車充電產品 CCS1 & CCS2 EV 充電連接器和插座 |IEC 62196-3，電力高達 200 千瓦，兩個額外的直流 (DC) 觸點，可大功率快速充電。產品可靠耐用、小巧輕便易安裝且滿足汽車振動耐久性和延長壽命要求。

025(0.64) CMX 連接器系列 (密封)，易組裝、線路更方便檢查與維修，長時間的戶外環境使用也不用擔心可靠度與安全性。機電設備可快速輕鬆地連接或斷開控制模塊，適用於連接 ECM、PCM、TCM、TAC 等汽車控制模塊。

致茂電子股份有限公司

M0106

www.chromaate.com

由於電動車與充電樁之間的對接介面與通訊方式的不同，目前全球的充電介面大致可分成四個區域 (接頭) 與三大標準 (CCS / GBT / CHAdeMO)。對此，致茂推出交 / 直流充電樁自動測試系統來整合測試所需要的設備。

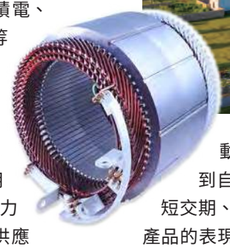
此系統包含交 / 直流電源、交 / 直流負載、功率計、示波器、數位電表、及符合各國充電標準的 EV 模擬器與測試項目。內建的測試項目主要涵蓋充電裝置與電動車之間的通信協議，必須能夠依電動車的情況，在不同的模式間順利切換，以維持充電裝置的功能運作與安全性，此系統適用於研發 / 驗證單位或產線終端 (EOL) 等測試。

驅動馬達

臺灣電線電纜領導品牌 開拓世界新能源電力市場

太平洋電線電纜股份有限公司成立於 1950 年，專注於電力線、漆包線、電子線和通訊線等產品，並具備電力系統工程之專業整合能力和經驗。整體領域涵跨國家電力系統、通訊網路、工業用線和民生用電等，為電力傳輸與循環帶來穩定的便利與最大的效益。

太電的服務據點跨足全球，以臺灣研究開發為中心，將相關製造和服務據點延伸至大中華地區、東南亞地區、澳洲地區等市場，提供當地公家機關、企業行號等穩定的電力服務。整體實績表現包含臺電、中華電信、臺鐵、高鐵、捷運系統、台積電、美光、上銀科技和澳門捷運等電網佈置和工程建設。



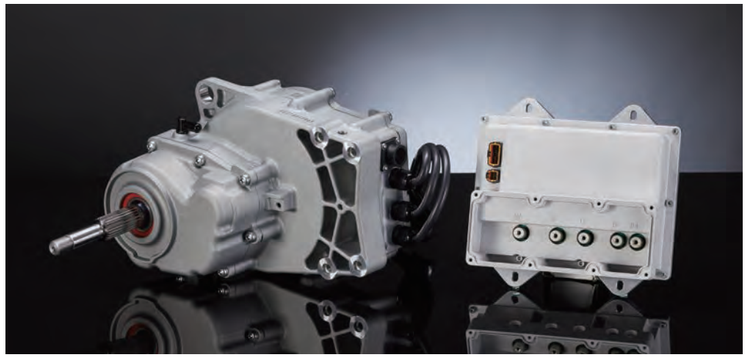
因應近年電動車與節能等新興產業發展，太電積極投入電機繞組、充電線組、車用高壓線組、儲能線組、車用平角漆包線和太陽能電纜等電力產品，為全球開創新的能源供應網絡。其中，電機繞組與其技術服務，含括電動載具動力系統、家電產品或高效率工業動力等領域，提供一個從設計開發到自動化生產的一站式服務，有效縮短交期、穩定品質和降低成本於動力系統產品的表現。太電秉持專業的技術規範，嚴謹的品質把關，為客戶打造量身訂製的解決方案和優質產品。

太平洋電線電纜股份有限公司(PEWC)

www.pewc.com.tw/zh-tw

M0311

士電運用領先核心技術，落實高效綠能環保使命



士電在綠能領域積極布局電動車領域，今年帶來智能化的 EV 用動力系統及充電樁產品。

EV 用動力系統 (馬達與馬達控制器)，其最大功率達 4 kW ～ 150 kW，適用 E-Scooter、重機、off-road 等乘用 / 商用車型，備受歡迎的人氣產品 E-Scooter 用動力系統已具 20 萬台以上之量產實績，目前與臺灣、歐美、日本客戶針對商用物流車、On-road、off-road ... 等車型使用之動力系統進行合作開發。士電動力系統可依客戶使用需求，提供客製化設計與開發方案 (ODM / OEM / JDM)，並藉由自行設計之動力系統系統調校介面可提供客戶整車動力與機能調校的最大彈性、提供輕量化、高出力、高效率、IP67 防水性能設計之動力系統。

全新設計具時尚美學的 EV 充電樁為電動機車與電動汽車打造多元充電選擇，也可依廠商需求提供不同客製化設計方案。電動汽車 DC 快速充電機具超高速直流充電能力，相容多國標準直流充電介面 SAE CCS / IEC CCS / CHAdeMO / GB，功率最高達 480 kW。電動汽車 AC 交流充電機具有 7 kW / 11 kW / 17 kW 充電功率之產品，相容多國標準交流充電介面 SAE J1772/IEC 62196-2/GB。

士林電機廠股份有限公司

www.seec.com.tw

M0512

東元電機股份有限公司

M0305

www.teco.com.tw/en/products/electric-vehicle

東元電機近年積極發展綠色載具動力系統，從二輪到四輪範圍皆有對應之動力馬達。東元發揮強項，以大功率馬達及驅動器滿足綠色載具 — 電動巴士之動力需求，亦協助臺灣國內巴士車廠達到國產化之目標。因此推動電動巴士成為減少城市廢氣排放的解決方法，東元 T Power+ 系列動力系統，功率範圍模組化擴充至 150~250kW，機械結構設計彈性架構，可應用於「直驅式動力系統」及「搭配變速箱式動力系統」，滿足應用於電動大客車、大型電動商用車、電動渡輪等載具。

星博電子股份有限公司

M0810

www.sinpro.com

星博現階段電動車相關產品包含獲精品獎的電動馬達 & 馬達控制器、直流轉換器、充電器等。亮點產品如：7.6kW 三相交流無刷電動馬達 (永磁同步馬達) MVWF7K6-10 及三相電動馬達控制器 DVWF7K6-102。

電動馬達可應用於多領域的電動載具，具備小體積、輕盈重量、IP67 防水防塵設計、溫度感測保護及新型專利。而馬達控制器內建智慧演算法可讓馬達具有低電流及高效率控制，並使煞車回充系統可有效回收能量，以達到節能減碳的功能。馬達控制器的強化結構可避免端子斷裂，且具備 IP67 防水防塵設計，適用於各種特殊環境。

動力電池

迪吉亞節能科技股份有限公司 M0412

www.dijiya.com.tw

因應全球淨零碳排趨勢之下，迪吉亞主要自主生產大容量磷酸鋰鐵動力電池，並衍生關聯性系列最具競爭力的產品：

從電池芯、PACK 模組、BMS 電池管理系統及主動平衡系統皆自己生產與研發，自主性的技術，使品質穩定、倍率好、高安全，尤其是智慧型自動平衡系統獨家技術，更能保障循環壽命。應用於自駕車、電動車、各種大型儲能系統、UPS、電梯不斷電系統、基地台備用電源等。

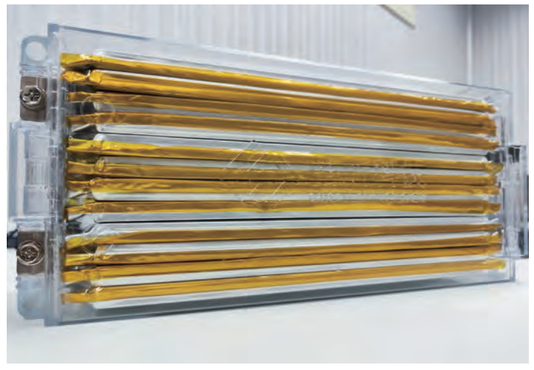
此外，迪吉亞也客製化開發不同噸位物流車用冷凍系統，深耕冷鏈物流市場，讓業者可省油費，投報率高。

格斯科技股份有限公司 M0505a

www.gustech.com

格斯科技新創團隊專注於多元的能源應用，打造專業高階電芯，共創臺灣綠能「芯」商機。

今年展覽主推產品 -VDA355 模組，為歐規電動車通用標準尺寸，透過此規格可利於汽車製造商直接改良應用在現行車款，減少整車重新規畫的成本，並且搭配格斯科技優良的電芯方案，可根據不同的終端需求，選配高鎳三元或是鈦酸鋰軟包電池芯，格斯鈦酸鋰電池芯具有高安全性、高倍率充放電電流（>20C）、更寬溫域的可工作溫度區間（-40° C~60° C），以及超高循環壽命（≧ 10,000 次）等優勢。



智能駕馭

公信電子股份有限公司 M1020

www.clientron.com

公信電子推出電動車智慧駕駛座艙平台整合車身與四電（電子、電池、電機、電控）技術，以模組化的架構以及軟體定義硬體的方式，透過智慧電子控制介面的「智駕平台資訊系統」，整合駕駛資訊、道路狀況和政府推動的「大型車輛八大項主動預警輔助系統」，再依不同車廠或車款進行快速彈性模組配置，以數位化方式控制整車機電系統與設備，將各種資訊完整呈現於單一車載主機螢幕，提供駕駛員完整行車資訊，更可搭配車聯網應用，同步傳遞至雲端的監控平台上，進行大數據收集、分析與應用。

研華科技股份有限公司 M0520

www.advantech.com

研華於本次展會聯合產業夥伴，打造智慧巴士國家隊，提供高效穩定的車載運算方案，提升行車安全及車隊管理效率。

研華智能巴士解決方案透過 AIoV（AI + Internet of Vehicle）技術，整合車隊管理雲平台、高整合強固型車機、AI 車輛安全系統（盲區偵測、車道偏移、駕駛者行為管理等）、巴士影音廣告系統等，佈建車隊管理、車輛調度、維修管理等功能。藉此更精確掌握行車路線，智能化派遣管理功能，實現節能與效率監控；透過高度整合台落實智能化車隊管理，提升行車安全、準點率，預測並降低機械故障率，同時提升乘客舒適與滿意度。

內政部高精地圖布建與導航安全智慧應用實現自駕系統未來願景

全球夯無人駕駛！內政部發表自駕系統專案成果。

由國立成功大學高精地圖中心發表聯合自主研發的嵌入式即時融合導航系統之 EGI 系列產品，分別為測繪用級 EGI-1000 及自駕車用級 EGI-370、320 定位導航系統。該產品專注於系統軟硬體整合開發，硬體部份透過嵌入式硬體設計，提升機體穩定性及降低耗能；軟體部分通過時間同步和運動模型約制等演算法技術，提供高精度、低成本成果的即時融合導航系統，並可提供客製化應用模組開發。此系列並具有多項感測器套件擴充 (相機、光達及高精地圖)，提升導航定位精度，將適用於自駕車、無人機、無人船等各項導航應用。

鼎漢國際工程顧問公司展示自動駕駛資訊整合平臺提供自駕車輛運行所需的資訊，包含雷達、光達、高速攝影機等感測器，且配備全球導航衛星系統、電子控制單元回傳即時點位到雲端。除視覺化呈現車內 / 外影像、車輛位置與路線等資訊外，更提供不同等級的行車警示，使業者可以即時掌控自駕車運行狀況，並提供主管機關完整的紀錄，蒐集到的資訊可以提供高精地圖圖資更新應用。

內政部
www.moi.gov.tw
M0324

億昇電子有限公司 M1116

www.acewell-meter.com

億昇今年各推出一款顯示紀錄車況的車錶及一款加熱把手產品。

HG 系列加熱把手主打高耐磨的「橡膠材質」，HG20 適用於摩托車的 7/8” / 22mm 手把 ; HG20 / HGT 則適合 ATV / UTV / 雪車使用 (可選配拇指加熱器)。產品特色具「快速加熱」、「記憶」、「低電壓偵測」、「五段溫控」等功能。

CV080 負顯數位式儀錶搭載高品質「負顯式 LCD」，儀錶內建 7 顆 LED 指示燈、7 顆 LCD 警示符號，可顯示速度、RPM、總里程速、電壓、溫度、時間、溫度條塊及油錶條塊，五段背光亮度供使用者依據使用當下狀況進行調整…等多功能資訊。

智易科技股份有限公司 M1120

www.arcadyan.com

除了滿足客戶的車載設備需求外，智易科技還提供駕駛安全和車隊管理的整體解決方案。今年展覽推出先進的 360 度全方位「77GHz 盲點警示雷達」，BSD 與 FCW 雷達已通過多國法規認證與產品可靠度測試；用於大型商用車輛行駛安全的「79GHz R151 內輪差盲點雷達」，提供內輪差、A 柱盲區偵測及 BSD / LCA 功能警示。

此外，首創 5G 智能車載系統，整合車機與雷達功能，運用於異常駕駛行為偵測及評分，提升安全駕駛行為。主動式安全告警提醒，警報數據分析統計改善駕駛行車安全。

第二屆「E-Mobility Global Demo Day」12家新創團隊

智慧化、永續節能的創新解決方案 帶動跨界合作與產業轉型

由中華民國對外貿易發展協會和時代基金會共同舉辦的第二屆「E-Mobility Global Demo Day」 是 2035 E-Mobility Taiwan 的重要活動之一。成功吸引了來自 20 國 64 家新創團隊參賽。經過兩輪評選，最終分別由來自臺灣、美國、加拿大、法國、以色列、英國及越南，共計 12 家團隊脫穎而出。

這 12 家新創公司將於 2035 E-Mobility Taiwan 的 Future Star Pavilion 中展示智慧移動的創新解決方案，更將在前瞻舞台上公開發表，並與創投公司、加速器、科技公司和製造商交流。

12 家團隊蓄勢待發 展現新創量能

獲勝的 12 家新創團隊將於 4 月 12 日下午 2 點至 4 點展示自駕系統、AI 運算與應用、影像偵測、語音辨識、可維修及重複使用的車用電池，更有解決最後一哩運送的自駕機器人…等，這是讓所有與會者可與新創廠商面對面的最好機會，不但可見識到這些新創為人類移動提出智慧化、永續性及節能的解決方案，更可了解智慧移動的最新發展趨勢、開發潛在合作機會及共同拓展國際商機。

Future Star Pavilion | M1220

BLUESPACE
cognata
Accelerating Autonomous Engineering
DELIVERS.AI CONTACTLESS DELIVERY
GOUACH
KARDOME
Kneron
MindtronicAI
NEWSIGHT IMAGING WHERE TECHNOLOGY SHINES
nexpress
Polymertal
ROSTEK
TGO

E-Mobility Global Demo Day–PowerUp & MeetUp

■ 時間：2023 年 4 月 12 日下午 2 點至 4 點
■ 地點：台北南港展覽館 1 館 4 樓 N 區前瞻舞台

時間	議程
13:30-14:00	報到
14:00-14:05	開場
14:05-14:10	介紹以色列新創生態系
14:10-15:10	12 家新創廠商公開發表
15:10-16:00	交流時間

Hybrid 2035 E-MOBILITY TAIWAN
SPECIAL ISSUE
ORGANIZER: TAITRA
APR. 12-15, 2023 TaiNEX 1
www.e-mobilityshow.com.tw

2035 E-Mobility Taiwan Opens:
Seizing Global Smart Mobility Opportunities

Organized by the Taiwan External Trade Development Council (TAITRA), the 2035 E-Mobility Taiwan, running from April 12 to April 15, showcases cutting-edge technologies from electric vehicles, battery, motor, ADAS, Internet of Vehicles to smart cockpit. The show presents a complete e-mobility ecosystem to meet the global need for smart mobility solutions.

The show brings together industry players including Master Transportation and Hotai Motor to showcase their latest electric and hydrogen vehicles. GUS Technology, DIJIYA, ZEROVA, Delta Electronics, Pacific Electric Wire & Cable, Shihlin Electric, Sinpro Electronics, and the Mobility Taiwan Auto Research Consortium (mTARC) will exhibit batteries, motors, and charging systems. Moreover, Clientron, Advantech, Arcadyan, the Taiwan Telematics Industry Association (TTIA), and Carota will exhibit connected car technologies, such as car navigation, driver behavior and vehicle monitoring, over-the-air (OTA) technology.


Mr. James C.F. Huang, Chairman of TAITRA

2023 E-Mobility Forum, being held on April 13, has invited global experts to discuss the most impactful developments across the electric vehicle industry. Furthermore, leaders from Ontario Vehicle Innovation Network (OVIN), Polish Alternative Fuels Association (PSPA), and top EV and semiconductor companies including Delta Electronics, AcBel Polytech, MIH, Pegatron, NXP Semiconductors, and Texas Instruments will share their insights of the industry trends and strategy for tapping into the electric vehicle market.

Visitors will also find a series of exciting activities during the exhibition, including the E-Mobility Global Demo Day-PowerUp & MeetUp, Guided Tours, KOL Workshop, New Product Launches, and more! To promote ESG investing, the exhibition also hosts an ESG Sharing workshop and one-on-one consultancy service, helping companies to get started with ESG practices in their businesses.

For more information, visit the official website: www.e-mobilityshow.com.tw

E-Mobility DigitalGo

E-Mobility DigitalGo
(April 10th ~ 23th)
Scan and visit the online exhibition ▶▶

2023 International E-Mobility Forum — Lead the Way to 2035

■ **Date:** Thursday, April 13th, 2023 ■ **Time:** 10:00 - 16:00 ■ **Venue:** Conference Room 402, 4F, Taipei Nangang Exhibition Center, Hall 1

Morning Session
Trends & Foresight x Green Transformation

Time	Agenda	Speaker
Trends & Foresight - Industrial Dynamics		
10:10 - 10:40	Driving the Future of the Automotive and Mobility Sector	***Mr. Raed Kadri*** Head of Ontario Vehicle Innovation Network (OVIN)
Trends & Foresight - Global Vision		
10:40 - 11:10	The sustainable market in Poland and the CEE	***Mr. Aleksander Rajch*** Board Member, Director, Polish Alternative Fuels Association (PSPA)
Green Transformation - Charging Piles		
11:10 - 11:40	EV Charging and Energy Infrastructure Development Trends in the Low Carbon Era	***Kelly Shyu*** Deputy General Manager, Energy Infrastructure and Industrial Solutions Business Group, Delta Electronics
Green Transformation - New Energy		
11:40 - 12:10	Green revolution is on the rise! Targeting EV for zero-carbon business opportunities	***Eddie Liu*** EVPG Assistant Vice President, AcBel Polytech Inc

Afternoon Session
Industry Layout x Empowerment Through Semiconductors

Time	Agenda	Speaker
Industry Layout - Technological Alliance		
14:00 - 14:30	Connect Taiwan's technology strengths to explore global EV business opportunities	***Jack Cheng*** CEO, MIH
Industry Layout - Supply Chain		
14:30 - 15:00	Technology first! Seize the opportunity to flip over the global automotive supply chain	***Steve Huang*** Special Assistant of Chairman & Senior Vice President, Pegatron Corp.
Empowerment Through Semiconductors - Soft Benefits		
15:00 - 15:30	Software defined value: Build a smart internet of the vehicle with secured connections	***Mavis Ko*** Senior Sales Manager, NXP Semiconductors
Empowerment Through Semiconductors - Hard Benefits		
15:30 - 16:00	Establish a firm foothold in the power management technology to promote an innovation-driven transformation of the industry	***Jasper Chen*** Sales Area Director, Texas Instruments

Language: English
Event Format: Physical forum with full video recording, which will be uploaded to YouTube afterwards.

The Evolutionary Journey

“Department of Industrial Technology, Ministry of Economic Affairs mTARC Pavilion” shows 18 achievements of vehicle technology project for exhibition

In order to promote Taiwan's automotive industry and international exchanges and cooperation, Department of Industrial Technology, Ministry of Economic Affairs promoted the establishment of the Taiwan Automotive Research Consortium (TARC) on May 30, 2005, and changed it to mobility Taiwan Auto Research Consortium(mTARC) on March 8, 2019, currently 9 members include: ARTC, MIRDC, NCSIST, III, HAITEC, FOXTRON, and the MSL, MCLI, ICL of ITRI.

Department of Industrial Technology, Ministry of Economic Affairs mTARC Pavilion, “THE EVOLUTIONARY JOURNEY” as the theme, and select 18 achievements of vehicle technology project for exhibition, fully show the technical energy of Automated and Electrified from incorporated foundation and industry, such as three highlight exhibits below :

Massproduced Intelligent Mini Bus control by wire

ARTC cooperated with LIOHO Machinery to develop Taiwan's first independent mass-produced autonomous electric minibus. Among them, 100% electric self-made rate is the highest in Taiwan. The minibus integrates the domestic three-electric system, and uses active ADAS and vehicle controller from two incorporated foundations’ start-up companies (OMI and KopherBit), has been put into trial operation in Kenting National Park in February this year to carry passengers.

The first self-driving bus in Taiwan was introduced at a national forest recreation area to provide shuttle services. It successfully challenged terrains such as hilly areas, and heavily forested sections, and encountered small animals and other unique situations.The positioning system breaks through the traditional RTK positioning system and adopts a hybrid positioning system combined with SLAM and RTK positioning technology. It integrates Autonomous Driving System technologies with advanced intelligent systems and high-level safety protection mechanisms.The whole vehicle is designed and manufactured in Taiwan, including the wired chassis, power control, self-driving system, battery, etc., which is the highest proportion of Made-in-Taiwan self-driving vehicles.

Massproduced Intelligent Mini Bus

Design and Development Platform with Digital Twins of Buses and Commercial Vehicles

During the electric vehicle development process, this platform technology establishes vehicle, environment, and driver models in a virtual environment, and performs accurate vehicle performance calculations. The simulations of energy consumption, handling stability, and vehicle body structural strength all have a reliability of more than 90%. , can reduce the development time of electric vehicles by 25%, and reduce the cost of verification and testing by 30% to 40%, and accelerate the pace of electrification of domestic vehicles.

It has been introduced into domestic OEMs and applied to electric bus models, as well as electric light-duty and medium-duty electric trucks and the most challenging coupling traction vehicles.

High Energy and Safety Polymer Solid LIB

The energy of the resin solid-state battery is 15% higher than that of the traditional lithium battery. The resin electrolyte has no leakage, no risk of explosion and fire, and does not need to use high-cost additives, solvents, etc. The cost is 3% lower than that of the traditional battery. The research and development results won the 2020 Global Top 100 Affirmed by R&D 100 Awards.

It has cooperated with domestic battery factories for trial mass production, and will introduce electric vehicles, electric buses, energy storage systems, and electric transportation vehicles in Thailand in the future. After this battery is out of service, it is easy to recycle and refine precious metals, reduce the production cost of lithium batteries by 20%, and reduce carbon emissions in the battery production process.

mobility TAIWAN AUTOMOTIVE RESEARCH CONSORTIUM (mTARC)
www.artc.org.tw

M0620

High Energy and Safety Polymer Solid LIB

TTIA furthers uses of smart telematics

Creating competitive value chains in automotive ICT

Building safer, smarter and greener technology in communities has become an emergent trend around the world over the past 10 years, stimulating the booming telematics industry in Taiwan. Telematics prides itself on a robust information and communications industry that integrates innovative software applications and services to meet the needs of drivers and passengers alike. The 2023 Taiwan Telematics Industry Pavilion has invited members including Polstar Technologies Inc., Keysight Technologies, Clientron, MiTAC Information Technology Corp., ECS Industrial Computer Co., Ltd., Ability Enterprise Co., Ltd., BV and Icatch Inc. to join with the aim of encouraging the smart utilization of Internet of Vehicles technology while establishing a strong basis for industrial integration and IoT development.

Clientron

TAIWAN TELEMATICS INDUSTRY ASSOCIATION (TTIA)
www.ttia-tw.org

M0320

Pavilion featured companies and products:

■ POLSTAR TECHNOLOGIES INC.

Polnav Navigation generates optimal routes in accordance with vehicle and road type parameters, in addition to providing various customized functions.

■ KEYSIGHT TECHNOLOGIES

The SA8700A C-V2X is a comprehensive testing solution enabling functional, protocol and RF measurements on R14 and future 5G NR C-V2X devices. It has 3GPP and OmniAir certification.

■ CLIENTRON

Exhibited items include the Smart Virtual Onboard Unit, Digital Driving Recorder and In-Vehicle Infotainment System (IVI). Because of its smart modular design, it easily connects to systems such as cameras, sensors and e-shifters, and integrates eight ADAS warning features: the digital driving recorder, Alcohol Interlock System, Driving Monitoring System, AVM (Around View Monitoring System), FCW (Forward Collision Warning System), LDW (Lane Departure Warning System), BSD (Blind Spot Detection System) and TPMS (Tire Pressure Monitoring System) for driving safety. It also provides an infotainment system and smart driving services.

■ MITAC INFORMATION TECHNOLOGY CORP.

The MiAIOT Intelligent Transportation Platform (MiAIOT For Bus) was created to speed up the digital development of the Highway Intelligent Transportation Warfare Center, bridging a critical gap in the optimization of passenger transportation operations.

■ ECS INDUSTRIAL COMPUTER CO., LTD.

ECSIPC is dedicated to innovating elegant and robust AC chargers for different applications. It is the best choice for diverse scenarios including home use, parking garages, commercial fleets, dealers, infrastructure operators, service providers, freeway service stations and more.

■ ABILITY ENTERPRISE CO., LTD.

Through collaborating with many Japanese camera OEM/ODM firms over the years, Ability Enterprise has developed the capacity to deliver high-quality systems with insights into the Japanese market. Its automotive products provide high-resolution images with multiple communication protocols. Ability Enterprise’ mission is to always provide the highest quality products at reasonable costs.

■ BUREAU VERITAS

Bureau Veritas helps the new mobility industry with quality and safety testing, including Homologation (VEO), V2X and OmniAir certification.

■ ICATCH INC.

Icatch develops, manufactures and sells electronics related to cloud network communication, Internet of Things systems, consumer products, vehicle energy systems and smart peripheral facilities for connectivity.

ELECTRIC BUS

MASTER fast charging heralds the future Introducing Taiwan's first intercity eBus

MASTER believes that fast charging will bring about the future. During 2023 E-Mobility Taiwan, MASTER is launching the first intercity electric coach bus in Taiwan. The fast charging system designed and developed by MASTER only needs 15 minutes to recharge capacity from SOC 20% to 80%, representing the belief that recharging time should equal refueling time. Daily mileage can also reach more than 500 kilometers. As Taiwan's E-bus Representative by the Ministry of Transportation and Communications, MASTER is also presenting a 12-meter 2-door low floor central motor electric city transit bus, which has been certified by the DMIT (Designed and Made in Taiwan) Project.

12-Meter Electric
Intercity Coach Bus

The electric intercity bus presented by MASTER is a first for Taiwan. The model can fully meet mileage requirements when traveling from Taipei to Taoyuan International Airport, Taipei to Taoyuan, Taipei to Keelung and Taipei to Yilan to give passengers the best experience. It can fill the gap in the electric bus market in Taiwan, which at present only has city transit buses, accelerating the complete electrification of public buses by 2030 and leading the world toward a bright future of zero carbon emissions.

Established in 2003, MASTER BUS is a bus manufacturer with independent design and development capabilities. It has manufactured more than 7,000 buses, with accumulated mileage of more than 6 billion kilometers. MASTER electric buses have entered service in Taipei, New Taipei City, Kaohsiung, Chiayi City and Changhua County.

MASTER TRANSPORTATION BUS MANUFACTURING LTD.
www.mastertrans.com.tw

M0820

TOYOTA

Accelerating to Achieve Carbon Neutrality

TOYOTA's EV Strategy:
Keeps Developing All Types of Electrified Vehicles.

TOYOTA has more than 30 years of experience in developing electrified vehicles. We are dedicated to providing safer, long-lasting, high-performance batteries, while cheaper. Meanwhile, providing customers with electrified vehicles in high quality by integrating developer and supplier.

TOYOTA puts much effort into promoting vehicle electrification and has been selling more than 10 million HEV (Hybrid Electric Vehicle). For the sustainability of our mother earth, TOYOTA will keep providing the full types of electrified vehicles, including HEV, PHEV (Plug-in Hybrid Electric Vehicle), BEV (Battery Electric Vehicle), and FCEV (Fuel-cell Electric Vehicle) to fit our customers' need and environment in worldwide.

bZ4X (BEV) ▼


▲ TOYOTA MIRAI (FCEV)

COROLLA CROSS (HEV) ▲


▲ PRIUS PHV (PHEV)

CHARGING INFRASTRUCTURE

ZEROVA diversified DC product line for all EV charging scenarios

With its many years of ODM/OEM experience, ZEROVA has the professional knowledge, technical ability and high quality standards to provide one-stop charging solutions for the specialized needs of customers around the world. Currently more than 30,000 charging sites worldwide use ZEROVA's high-powered fast chargers. Diverse offerings include slow charging, fast charging, high-capacity fast charging and dispensers, as well as media screens for EV charging stations to meet various customer needs.

To serve the rapid electrification of heavy-duty and commercial vehicles, the DQ SERIES 480kW Standalone DC Charger can not only charge at lightning speed, but can do so for four vehicles at once. Its standalone design is compact, saving on space to allow for flexible installation in parking lots. The software supports dynamic distribution and remote management, with a 21.5-inch touchscreen for easy control.

The DC SERIES 240kW All-in-one Dispenser was developed in response to EV design trends, featuring a stylish and streamlined shape suited to urban commercial venues with a customizable appearance and atmospheric lights. The operational screen is available in three sizes (7, 21.5 and 32-inch) to suit different use cases. Its optional adjustable cable arm system with automatic retraction can also reduce gun weight to provide a better user experience.

ZEROVA TECHNOLOGIES
www.zerovatech.com

M0608

Towards a new trend of EV charging DC wallbox 50kW EV charger

Delta, founded in 1971, is a global provider of power and thermal management solutions. Its mission statement, "To provide innovative, clean and energy-efficient solutions for a better tomorrow," focuses on addressing key environmental issues such as global climate change. As an energy-saving solutions provider with core competencies in power electronics and automation, Delta's business categories include Power Electronics, Automation and Infrastructure.

Optimistic about the development of electric vehicles (EVs), Delta has developed the DC Wallbox 50kW EV Charger to meet the associated charging demand with a charging efficiency of 97%, thickness of only 25 cm and support for simultaneous charging with a maximum output of 50kW of DC power from two charging guns.

Its 25cm thickness requires only 40% of the installation space compared to other chargers on the market. With floor and wall-mounted options, the DC Wallbox 50kW has outstanding

flexibility to suit different types of charging scenarios. Leveraging Delta's cutting-edge technology, the DC Wallbox 50kW delivers industrial-leading charging efficiency, offering considerable savings for site operators.

The DC Wallbox 50kW can be equipped with two charging guns and supports major charging interface standards for all EVs while accommodating the different needs of different sites.

It not only provides optimal convenience in usage and management, but its thin design also enables the utilization of residual space

for installation without reducing the number of available parking spaces.

DELTA ELECTRONICS, INC.
www.deltaww.com

M0110

DELTA

K.S. TERMINALS INC.

M0806a

ksterminals.com

K.S. Terminals has developed a complete series of AC/DC charging connectors for residential, industrial and charging station (EVSE) scenarios.

The CCS1 & CCS2 EV Charging Connectors & Inlets (IEC 62196-3) provides power at up to 200 kilowatts with two additional DC contacts for high-powered fast charging. Combining reliability, durability, compact size and easy installation, the CCS1 & CCS2 can withstand vehicle vibrations to last longer.

The 025(0.64) CMX Connector Series (Sealed) is easy to assemble with wiring that is simple to check and repair. Users do not need to worry about extended outdoor use affecting reliability and safety. The device has been designed to connect and disconnect quickly and easily to a control module, including the ECM, PCM, TCM and TAC.

CHROMA ATE INC.

M0106

www.chromaate.com

Because of international differences in charging interfaces and communication protocols, EV chargers can be broadly divided into four regions (by connector type) and three major standards (CCS, GBT, and CHAdeMO). Chroma provides an AD/DC EVSE system to integrate all related testing equipment, including AC/DC source, AC/DC load, power meter, DSO, digital meter, EV emulators and test items that meet national charging standards. The built-in test items include communication protocols between the charging device and EV to ensure that the charging device can switch smoothly between modes as required to maintain the EV's functionality and safety. This system is suitable for R&D, validation and end-of-line (EOL) testing.

MOTOR

Taiwan's wiring leader PEWC backs global power transition

Pacific Electric Wire and Cable Co., Ltd. (PEWC), founded in 1950, specializes in manufacturing power cables, enameled wires, electronic wires and cables, communication cables and more. PEWC possesses professional integration capabilities and experience in power systems engineering. Fields of service include national power systems, communication networks, industrial wires and household electricity, providing stability and maximum results for all power transmission and circulation needs.

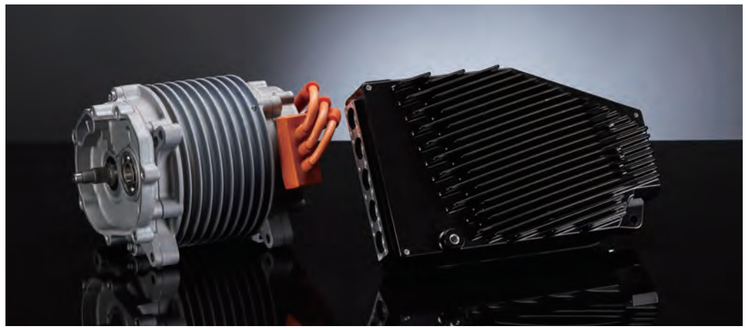
PEWC has service bases worldwide. From its research and development base in Taiwan, PEWC has expanded manufacturing and service stations to greater China, Southeast Asia and Australia to provide local electricity stability services for public agencies and enterprises. PEWC has completed power grid distribution and construction projects for Taiwan Power Company, Chunghwa Telecom, Taiwan Railway, Taiwan High Speed Rail, MRT systems, TSMC, Micron, HIWIN, and the Macau MRT.

Responding to emerging trends in electric vehicles and energy conservation, PEWC is actively investing in developing coil winding, EV charging cable assembly, high voltage harnesses, DC power ESS connection cables, rectangular enameled wires and PV cables to realize a new energy supply network for the world. For coil winding and related technology services applied to EV powertrains, home appliances or high-efficiency industrial power, PEWC provides one-stop service from design and development to automated production, effectively shortening delivery time, stabilizing quality, and reducing costs. Adhering to professional technical specifications and strict quality control, PEWC provides customized solutions and high-quality products to its customers.

PACIFIC ELECTRIC WIRE AND CABLE CO., LTD.
www.pewc.com.tw/en-us

M0311

Efficient green energy with Shihlin Electric cutting-edge tech



An active EV player in the green energy field, Shihlin Electric has brought smart EV powertrain systems and chargers to E-Mobility Taiwan this year.

With maximum power of 4kW to 150kW, the Shihlin Electric powertrain system for EVs (motor and motor controller) is best suited to e-scooters, motorcycles, off-road vehicles and passenger/commercial vehicles. More than 200,000 units of the popular e-scooter powertrain system have already been produced, and collaborations with customers in Taiwan, Europe, America and Japan are under way to develop powertrains for commercial logistics, on-road and off-road vehicles. The Shihlin Electric powertrain can also be customized according to customer requirements (ODM/OEM/JDM). A uniquely designed system adjustment interface provides maximum flexibility to control power and vehicle functions for the lightweight, high output, efficient and IP67 waterproof powertrain system.

Shihlin Electric's stylish, newly designed EV charger provides diverse charging options for electric motorbikes and automobiles, with customized design solutions available to meet manufacturer needs. The DC super charger is compatible with the global-standard DC charging interface SAE CCS/IEC CCS/CHAdeMO/GB, with a capacity of up to 480 kW. The AC charger with 7 kW/11 kW/17 kW of charging power is compatible with the global-standard AC charging interface SAE J1772/IEC 62196-2/GB.

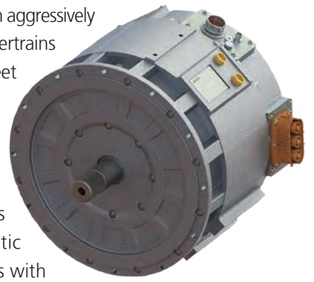
SHIHLIN ELECTRIC & ENGINEERING CORP.
en.seec.com.tw

M0512

TECO ELECTRIC & MACHINERY CO., LTD.

www.teco.com.tw/en/products/electric-vehicle

M0305



TECO in recent years has been aggressively developing electric vehicle powertrains for two to four-wheelers to meet the demands of zero emissions and public transportation electrification. It is especially devoted to making the high-power motors and drivers needed for Taiwan's domestic bus OEMs electrify their fleets with Made in Taiwan components. TECO is utilizing its strength in developing high-efficiency EV powertrains to satisfy the needs of bus makers with products such as the T Power+ series with 150kW-250kW direct drive power. The powertrain also has the option for adding a gear system depending on bus maker demand. It has a wide range of applications, including for 12-meter electric buses, heavy-duty commercial vehicles and even electric ferries.

SINPRO ELECTRONICS CO., LTD.

M0810

www.sinpro.com

Sinpro provides a number of products for EVs, including a Taiwan Excellence Award-winning electric motor and motor controller, DC/DC converters and chargers. Featured here are the MVWF7K6-102 7.6kW 3-phase AC brushless electric motor (IPMSM) and DVWF7K6-102 3-phase electric motor controller.

With its compact size, light weight, IP67 water and dustproofing, temperature protection and newly patented design, the motor can be used with all types of EVs. The controller's embedded AI algorithm enables highly efficient motor control with low current, and allows the system to effectively recharge the battery while braking to save on energy and carbon emissions. The reinforced structure of the controller prevents breakage, while IP67 water and dustproofing makes it suitable for all kinds of environments.

BATTERY

DIJIYA ENERGY SAVING TECHNOLOGY INC.

www.dijiya.com.tw M0412

As part of the world trend toward decarbonization, Dijiya produces its own large-capacity LiFePO4 power batteries in addition to a slew of related competitive products.

From battery cells and PACK modules, to BMS and active balancing systems, all products are produced and developed by Dijiya. Developing technology independently allows for stable quality, good ratings and improved safety, especially Dijiya's intelligent automatic balancing system guaranteed to increase cell longevity. Dijiya products are suitable for self-driving cars, electric vehicles, energy storage systems, uninterruptible power supply (UPS), elevator UPS, base station backup power supplies, and more.

Dijiya also makes customized refrigeration systems for logistics vehicles of different tonnages, allowing cold chain logistics operators to save on fuel costs for a high rate of return.

GUS TECHNOLOGY CO., LTD. M0505a

www.gustech.com

The GUS Technology innovation team specializes in diversified energy applications, creating professional high-end batteries to help supercharge Taiwan's green energy industry.

The featured product on display this year is the VDA355 battery module, utilizing a standard European size for automakers to conveniently modify or upgrade EVs at minimal cost. GUS Tech is capable of producing NCM and LTO type cells in the VDA355 format while still preserving their excellent properties of high safety, high power density (>20C), high energy density (~850 Wh/L), extreme working temperatures (-40°C ~ 60°C) and long cycle life (≧10,000 cycles). With its excellent battery technology and one-stop service, GUS Tech offers the right solutions for all types of energy problems.

AUTONOMOUS

CLIENTRON

www.clientron.com M1020

The Clientron Smart eCockpit for electric vehicles integrates the body of the car with its electronic, battery, motor and electronic control systems. Built through the control interface's modular architecture and software-defined hardware, the eCockpit integrates driving data, road information and government-provided early warning systems for large vehicles. Quickly adaptable to different vehicle makes and models, it allows for full digital control over all electronic and mechanical systems of the vehicle from a single screen. It also synchronizes with the vehicle-to-everything network and with the cloud for big-data collection, analysis and application.

ADVANTECH CO., LTD.

www.advantech.com M0520

For this year's E-Mobility Taiwan, Advantech has joined forces with industry partners to form an all-around iBus solution that enhances driving safety and management efficiency while also elevating passenger experience.

Advantech's iBus solution leverages AIoV technology and an intelligent in-vehicle computing platform to improve driving safety and fleet management efficiency. It includes an in-vehicle computing platform, onboard media broadcasting system, AI-empowered driving safety systems and a cloud management system, which features blind spot detection, vehicle maintenance management and fleet management capabilities. With these technologies, Advantech's iBus solution can optimize management decision-making and enhance driving safety, as well as generate profit from onboard advertising.

MOI precision map for navigational safety Autonomous driving realized through smart applications

Autonomous driving is picking up speed! The Ministry of the Interior is here to help with specialized self-driving systems.

A joint project led by the National Cheng Kung University High Definition Map Research Center, the EGI series of embedded real-time integrated navigation systems includes the survey-grade EGI-1000, and EGI-370 and EGI-320 for autonomous driving. The products focus on system software and hardware integration, with embedded hardware design to improve stability and reduce energy consumption. The firmware utilizes algorithmic techniques such as time synchronization and motion model constraint to provide a highly accurate and low-cost real-time integrated navigation system that also comes with customizable application modules. Additionally, the EGI series includes multiple sensor kit extensions (e.g., cameras, lidar and high-definition maps) to enhance navigation positioning accuracy, suitable for autonomous vehicle, drone and uncrewed ship navigation.

THI Consultants is also showcasing its operational central control platform for autonomous vehicles. The platform collects all necessary information from radar, LiDAR and high-speed cameras for self-driving vehicles to operate smoothly, and is equipped with GNSS and ECU to return real-time positioning data to the cloud. In addition to visually presenting information such as interior and exterior images, vehicle locations and routes, it also displays different warning levels, allowing operators to control the operation of autonomous cars in real time and providing complete records to authorities. The data collected can also be used to update high-definition maps.

MINISTRY OF THE INTERIOR,
REPUBLIC OF CHINA(TAIWAN)
www.moi.gov.tw

M0324

ACEWELL INTERNATIONAL CO., LTD.

www.acewell-meter.com M1116

This year, Acewell is presenting its digital vehicle displays and heated grips.

The HG series of heated grips are all made with abrasion-resistant silicone, including the HG20 to fit any 7/8" / 22mm handlebars and the HG20/HGT for use with ATVs, UTVs and snowmobiles (with an optional thumb heater). They are fast heating, can remember previous settings, detect low voltage and come with five heat settings.

The high-quality CV080 Negative LCD Digital Display comes with seven LED indicators and seven LCD warning indicators for displaying speed, RPM, mileage, voltage, temperature, time, fuel level and more. The backlight also comes in five brightness levels for the user to adjust according to need.

ARCADYAN TECHNOLOGY CORP.

www.arcadyan.com M1120

In addition to meeting on-vehicle equipment needs, Arcadyan also provides complete solutions for driving safety and fleet management. This year, Arcadyan is promoting its 77GHz Radar Sensing solution for blind spots. The 360-degree BSD and FCW radar is certified by multinational regulations and compliant with product reliability tests. For large commercial vehicles, the 79GHz R151 Turn Assist Radar gives information on the inner wheel turning radius, A-pillar dead zone and BSD/LCA warnings.

What's more, Arcadyan's one-of-a-kind 5G smart vehicle system integrates vehicle and radar functions to detect and assess abnormal driving behavior. Through active safety alerts and analysis of warning data, driving safety can be greatly improved.

Innovations in E-Mobility: Showcasing 12 Top Startups

The second "E-Mobility Global Demo Day," co-organized by the Taiwan External Trade Development Council (TAITRA) and the Epoch Foundation, is one of the most important events of the "2035 E-Mobility Taiwan". This year, 64 startups from 20 countries applied to participate. After two rounds of evaluations, a total of 12 teams from France, the United States, Canada, Israel, Vietnam, the United Kingdom, and Taiwan were selected.

These 12 impressive startups will showcase their innovative solutions for E-Mobility at the Future Star Pavilion (booth M1220) in this year's "2035 E-Mobility Taiwan". Furthermore, each startup will make a public presentation at the Forward Stage and exchange ideas with venture capital firms, startup accelerators, tech companies, and manufacturers.

E-Mobility Global Demo Day: PowerUp & MeetUp

On April 12 from 2pm to 4pm the 12 startups will showcase their autonomous driving systems, AI computing and applications, image detection and speech recognition technologies, repairable and reusable electric car batteries, and even self-driving robots that complete last-mile delivery services. This is the best opportunity to interact with these startups in person. Not only will visitors gain insights into these startups' smart, sustainable, and energy-efficient solutions for human mobility, but they will also learn about the latest trends in E-Mobility, explore potential business collaborations, and expand international business opportunities.

Future Star Pavilion | M1220

BLUESPACE

cognata
Accelerating Autonomous Engineering

DELIVERS.AI
CONTACTLESS DELIVERY

GOUACH

KARDOME

Kneron

Mindtronic AI

NEWSIGHT IMAGING
WHERE TECHNOLOGY SHINES

nexpress

Polymertal

ROSTEK

TGO

E-Mobility Global Demo Day–PowerUp & MeetUp

■ **Date:** Wednesday, April 12th, 2023 ■ **Time:** 14:00 - 16:00
■ **Venue:** Forward Stage, Area N, 4F, Taipei Nangang Exhibition Center, Hall 1

Time	Agenda
13:30-14:00	Reception
14:00-14:05	Opening
14:05-14:10	Introduction-Israel's Startup Ecosystem
14:10-15:10	12 Startups Public Pitch
15:10-16:00	Networking