

WNEVC

技术展览

Technical Exhibition



FLOOR PLAN

展位分布图



EXHIBITOR & SPONSOR LIST

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企业中文名 Company Name (CN)	企业英文名 Company Name (EN)	展位号 Booth No.
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黑芝麻智能科技（上海）有限公司	Black Sesame Technologies (Shanghai) Co., Ltd.	D05
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蔚来	NIO	A40

企业中文名 Company Name (CN)	企业英文名 Company Name (EN)	展位号 Booth No.
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华为数字能源技术有限公司	Huawei Digital Power Technologies Co., Ltd.	
博世（中国）投资有限公司	Bosch (China) Investment Ltd.	
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奥动新能源汽车科技有限公司	Aulton	
瑞浦能源有限公司	Ruipu Energy Co., Ltd.	
上海快卜新能源科技有限公司	Shanghai KBVIP New Energy Technology Co., Ltd.	
江苏云快充新能源科技有限公司	Jiangsu YKC New Energy Technology Co., Ltd.	
星星充电	Star Charge	
株洲中车时代电气股份有限公司	ZHUZHOU CRRC TIMES ELECTRIC Co., Ltd.	C03
雄韬氢雄	HydraV	
英飞凌科技（中国）有限公司	Infineon Technologies China Co., Ltd.	D01
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芯力能（上海）技术咨询有限责任公司	Silicon Mobility (Shanghai) Technology Consulting Co., Ltd.	D02
苏州国芯科技股份有限公司	Suzhou China Core Technology Co., Ltd.	D06
上海氢晨新能源科技有限公司	Shanghai H-Rise New Energy Technology Co., Ltd.	C02
	SK Innovation	
快电	KuaiDian	
爱弥库（苏州）试验设备有限公司	EMIC Corporation Japan	C04
深圳基本半导体有限公司	Shenzhen BASiC Semiconductor Co., Ltd.	D04



重庆长安新能源汽车科技有限公司
Chongqing Chang'an New Energy Vehicle
Technology Co., Ltd



长安汽车是中国汽车四大集团阵营企业，拥有 159 年历史底蕴、63 年造车渊源，全球有 15 个生产基地、35 个整车及发动机工厂。截至 2021 年 5 月，长安系中国品牌用户突破 2000 万，领跑中国品牌汽车。长安汽车在 2017 年发布“香格里拉计划”新能源战略，是首家明确宣布停售传统意义燃油车时间表的中国汽车企业。

长安新能源成立于 2018 年 5 月，是一家兼有整车、研发、生产、加工、销售、咨询、汽车租赁及充电业务的全产业链新能源汽车企业。2019 年 11 月，长安新能源首轮融资完成，成功引入长新股权基金、两江基金、南方工业基金、南京润科产投等 4 家战略投资者，成为第一家实现混改的汽车央企。长安新能源是“香格里拉计划”新能源战略的主要承载者，现有员工 1357 人，具有一支国内一流的研发团队，其中工程技术研发人员 977 人，占比 72%；博士硕士 300 余人，外部专家顾问 10 人。

长安新能源将以“第三次创新创业”为指引，加快推进“香格里拉计划”，全谱系打造“有生命、有情感”的智慧出行伙伴，满足追求经济实用、舒适品质、乐趣体验的个人客户及共享出行客户的需求，目前正在打造三大新能源整车专属平台，致力于成为数字化电动汽车普及者。

Changan Automobile is one of China's Top 4 automobile groups, with 159 years of history and 63 years' experience of automobile manufacturing. It has 15 production bases and 35 vehicle and engine factories worldwide. As of May 2021, the number of users for the Chinese brands of Changan Automobile exceeded 20 million, ranking among the top Chinese Automotive Brands. In 2017, Changan Automobile released the new energy strategy Shangri-la Program and became the first Chinese automaker to explicitly announce a timetable to end sales of traditional fuel vehicles.

Changan New Energy Automobile Co., LTD was founded in May 2018. It is a new energy automobile enterprise which has the whole industrial chain, including vehicle development&designing, production, processing, sales, consulting, car rental and charging business. In November 2019, Changan New Energy became the first central automobile enterprise to realize mixed transformation. And CA-NEVTC was completed its first round of financing and successfully introduced into four strategic investors "Changxin Equity Fund, Liangjiang Fund, Nanfang Industrial Fund and Nanjing Runke Industrial Investment". CA-NEVTC is an indispensable part to achieve the grand mission of "Shangri-La Program". It has 1357 employees and own a professional first-class r&d team in China, which has 72% of employees are engineering technicians, 977. And More than 300 doctors and masters, 10 external expert consultants.

CA-NEVTC will be guided by the "third time of innovation entrepreneurship". Implement the Shangri-la program, and create the smart travel partner with life and emotion. To meet those individual consumers and sharing travel customer who have the needs for economical&practical, comfortable, fun to experience. Currently CA-NEVTC are building a exclusive platform for three new energy vehicle and committed to be a provider of high quality new energy car.



上海汽车集团股份有限公司
SAIC Motor Corporation Limited



上海汽车集团股份有限公司（简称“上汽集团”，股票代码 600104）作为国内规模领先的汽车上市公司，紧紧围绕“以用户为中心”，通过深入推进创新发展战略，全面发力“数据决定体验、软件定义汽车”的新一代电动智能汽车，正在加快向技术升级化、业务全球化、品牌高档化、体验极致化的用户型高科技企业转型。2021 年，公司第 17 次跻身《财富》世界 500 强，排名第 60 位。

目前，上汽集团主要业务包括整车（含乘用车、商用车）的研发、生产和销售，正积极推进新能源汽车、互联网汽车的商业化，并开展智能驾驶等技术的研究和产业化探索；零部件（含动力驱动系统、底盘系统、内外饰系统，以及电池、电驱、电力电子等新能源汽车核心零部件和智能产品系统）的研发、生产、销售；物流、汽车电商、出行服务、节能和充电服务等移动出行服务业务；汽车相关金融、保险和投资业务；海外经营和国际商贸业务；并在产业大数据和人工智能领域积极布局。



宝马（中国）汽车贸易有限公司 BMW China Automotives Trading Co., Ltd



宝马集团于 1916 年在德国慕尼黑成立，是全世界最成功的汽车和摩托车制造商之一，旗下拥有 BMW、MINI、Rolls-Royce 和 BMW Motorrad 四个品牌，同时还提供汽车金融和高档出行服务。作为一家全球性公司，宝马集团在 15 个国家拥有 31 家生产和组装工厂，销售网络遍及 140 多个国家和地区。截止到 2020 年 12 月 31 日，宝马集团在全球共有 120,726 名员工。

宝马集团于 1994 年 4 月设立北京代表处，正式进入中国市场。二十多年以来，宝马集团在中国成功发展，经销商网络超过 600 个网点，拥有超 500 万汽车保有量和千万品牌粉丝。2020 年，宝马集团在华共交付 777,379 辆 BMW 和 MINI 汽车，同比增长 7.4%。

宝马集团的成功源于其前瞻未来的远见和具有高度责任感的行动。宝马集团在整个价值链中贯彻生态和社会的可持续性发展策略，全面的产品责任以及明确的节能承诺已成为宝马集团企业战略的重要内容。

Founded in 1916 in Munich, Germany. With its four brands BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial and mobility services. The BMW Group production network comprises 31 production and assembly facilities in 15 countries; the company has a global sales network in more than 140 countries. As of 31 December 2020, the BMW Group had a workforce of 120,726 employees.

The establishment of the BMW AG Beijing Representative Office in April 1994 marked the official entry of the BMW Group in Mainland China. Over the past two decades, the BMW Group has developed successfully in China, with a dealer network of more than 600 outlets, a car parc of over 5 million as well as tens of millions of fans. In 2020 BMW Group's sales in China increased by 7.4 percent year-on-year, with 777,379 BMW and MINI brand vehicles delivered to Chinese customers.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company has therefore established ecological and social sustainability throughout the value chain, comprehensive product responsibility and a clear commitment to conserving resources as an integral part of its strategy.



大众汽车集团 Volkswagen Group

VOLKSWAGEN

GROUP CHINA

大众汽车集团是中国汽车工业最早、最成功的国际合作伙伴之一，伴随中国汽车工业成长三十余年。

大众汽车集团在华经营范围包括汽车、发动机和变速箱等零部件的生产、销售与服务，集团旗下的大众汽车乘用车、奥迪、斯柯达、捷达、保时捷、宾利、兰博基尼、大众汽车商用车、曼恩、斯堪尼亚和杜卡迪等品牌在中国各细分市场开展业务。

大众汽车集团致力于到 2050 年在全球范围内全面实现碳中和，并为此发布了“goToZero”战略，以实现脱碳目标。到 2025 年前，集团全球范围内的工厂将减少 30% 的废弃物排放，并将生产每辆汽车的能源和水资源消耗减少 30%。同时，集团产品阵容中的电动汽车车型比例将增至 35%。在中国，集团与合资企业伙伴在电动汽车、生产技术及相应的研发领域共同投入数百亿元人民币以实现这一目标。

大众汽车集团（中国）在安亭和佛山的两座工厂自 2020 年起正式投产纯电动车型，此后，大众汽车集团将在中国具备每年生产 60 万辆纯电动汽车的技术能力。

大众汽车集团将继续把最环保、最先进的技术和产品带到中国，为消费者提供更满意的服务，与中国汽车工业共同迈向可持续发展的未来！

The Volkswagen Group is one of the first and most successful international partners of China's automobile industry. The Group has grown together with China's auto industry in the past 30 years of partnership with the country.

The business scope of the Volkswagen Group in China includes the production, sales and services of vehicles and parts, such as engines and transmissions. The Group is presented by many auto brands of all segments — including Volkswagen Passenger Cars Brand, Audi, ŠKODA, JETTA, Porsche, Bentley, Lamborghini, Volkswagen Commercial Vehicles, MAN, Scania and Ducati.

By 2050, the Volkswagen Group aims to be fully net carbon neutral around the world. Volkswagen Group China is tackling this plan with the goToZero initiative to strengthen decarbonization efforts. By 2025, the factories around the globe will produce 30% less waste and use 30% less energy and water per vehicle. The share of electric models in the Group's portfolio will be increased by up to 35%. In China, the Group is investing billions of RMB for e-cars, e-factories and corresponding R&D together with joint venture partners to achieve this goal.

Two factories in Anting and in Foshan purely for electric cars will start production in 2020, with a combined technically installed capacity of 600,000 vehicles per year.

By continuing to bring the most advanced and environmentally sound technologies and products to China, as well as providing professional services for an even higher customer satisfaction, the Volkswagen Group is driving towards a sustainable future with China's automobile industry.

日产（中国）投资有限公司

Nissan (China) Investment Co., Ltd.



日产汽车在中国的发展始于 1972 年，自上世纪 90 年代开始，日产汽车在中国取得了迅猛的发展。日产（中国）投资有限公司作为日产汽车在华的全资子公司与日产汽车公司一起管理在华投资。东风汽车有限公司作为日产汽车与东风汽车公司成立的合资企业，旗下东风日产乘用车公司、东风英菲尼迪汽车有限公司分别负责日产品牌、英菲尼迪品牌和启辰品牌乘用车业务，郑州日产汽车有限公司和东风汽车股份有限公司为日产、东风双品牌 LCV 产品的主要发展基地，致力于成为轻型商用车（LCV）领域不同细分市场的专家。2020 年，包括进口车、乘用车和轻型商用车在内，日产汽车在华销量超过 145 万辆。

Nissan entered the Chinese market in 1972, and the brand has been developing rapidly in China since the 1990s. As the wholly owned subsidiary of Nissan Motor Co., Ltd. based in Beijing, Nissan (China) Investment Co., Ltd. manages Nissan's investment in China together with the parent company. Dongfeng Motor Co., Ltd. is a joint venture between Nissan and Dongfeng Motor Group Co., Ltd.. Under it, Dongfeng Nissan Passenger Vehicle Company and Dongfeng Infiniti Motor Co., Ltd. mainly produce passenger vehicles, while Zhengzhou Nissan Automobile Co., Ltd. and Dongfeng Automobile Co., Ltd. specialize in light commercial vehicles. In calendar year 2020, Nissan sold more than 1.45 million vehicles in China, including imported, passenger and light commercial vehicles.

中航锂电科技有限公司

China Lithium Battery Technology Co., Ltd.



中航锂电是专业从事锂离子动力电池、电池管理系统、储能电池及相关集成产品和锂电池材料的研制、生产、销售和市场应用开发的高科技企业，致力于为全球客户提供完整的产品解决方案和完善的生命周期服务。

公司成立于 2007 年，产品先后通过 IATF16949 等权威质量体系认证，获得 CE、UL、TUV、RoHS 等国际认证。公司现已设立常州、洛阳、厦门、成都、武汉、合肥六大产业基地；并设立专业的独立研发机构——中航锂电研究院，致力于动力电池关键技术的研发与应用，打造具有全球影响力的锂电科技创新平台。

中航锂电以“持续创新，造福人类”为使命，坚持创新发展战略，持续打造产品力领先，努力创建伟大公司，成就伟大事业！为全球新能源产业的健康快速发展，为中国“碳达峰、碳中和”目标的实现，为创造世界更加美好的未来不懈奋斗！

China Lithium Battery Technology Co., Ltd. (CALB) is a high-tech enterprise, which specializes in R&D, production, sales and market application development of lithium batteries & battery materials, BMS, energy storage batteries and related integrated products, dedicated to providing global customers with complete product solutions and impeccable life cycle services.

Established in 2007, CALB offers products which has passed many authoritative quality system certifications, such as IATF16949, and obtains the international certifications including CE, UL, TUV, RoHS and so on. At present, we have established six major production bases in Changzhou, Luoyang, Xiamen, Wuhan, Chengdu and Hefei. Meanwhile, CALB Research Institute, which is operated as a national recognized enterprise technology center, aims to study and transform the key technologies of power battery into application and to create a new energy technology innovation platform with global influence. CALB plans to increase the production capacity to 300GWh+ during the 14th Five Year Plan period and expands production according to the change of the market and customer demand. We are now striving to be a world leading power battery manufacturer and the most reliable partner for the global excellent enterprises.

With the mission of "continuous innovation for the benefit of mankind", CALB adheres to the strategy of innovation-driven development, relentlessly innovating in the material system, system structure, intelligent manufacturing and ecological development, to keep the product force advanced, to create a great enterprise and to achieve a noble cause! The company will make unremitting efforts to support the healthy and rapid development of global new energy industry, to realize China's promise for the "peak carbon dioxide emission and carbon neutral", and to build a better future for the world.

LG 新能源作为全球电池技术的领先企业，在绿色能源时代中最核心的汽车动力电池、小型电池和储能电池领域中打造多元化产品布局，是业内首家产品覆盖新能源汽车、电动船舶、航空航天全出行场景的公司。

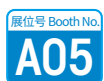
目前，LG 新能源在全球拥有超过 2.4 万名员工，在中国、韩国、美国、欧洲和澳大利亚建立了全球化的生产运营及研发体系。通过 30 年持续的研发投入和专业人才培养，拥有超过 2 万项专利技术，从领先的材料技术、制造工艺到完善的量产体系，LG 新能源领先的技术实力赢得了全球客户们的信赖。

为构建全球绿色环保的电池产业生态及创造可持续的社会价值，LG 新能源聚焦全面碳中和，以“为更美好未来赋能”的 ESG 经营愿景，致力成长为以环境保护为中心，履行社会责任，并在经营中创造可持续价值的绿色低碳型企业。面向未来，LG 新能源将凭借创新技术、全球化布局和多元化产品组合，不断强化价值竞争力，以多元化能源解决方案，不断开创更美好未来。

As a global Battery leader, LG Energy Solution Leads the future energy industry by developing Advanced Automotive Battery, Mobility & IT Battery, and ESS Battery, which are key for the green energy transition. LG Energy Solution become the first supplier in the industry of electric vehicles, electric ships, drones, and battery powered spacesuits.

With over 24,000 employees working within its robust global network that spans China, US, Europe and Australia. Through 30 years of R&D investment and training talents, LG Energy Solution is now equipped with more than 20,000 intellectual property rights. From leading raw material technology and manufacturing production technology to mass production systems, LG Energy Solution is at the forefront of technological advancements.

Under the ESG vision "We CHARGE toward a better future", LG Energy Solution focuses on achieving carbon neutrality. LG Energy Solution is rolling up sleeves to become an eco-friendly company that prioritizes environment, fulfils social responsibilities and shapes sustainable future with its ESG management strategy. LG Energy Solution will thrive to build a unique and competitive brand value with its innovative technologies, global networks, and strong Business Portfolio that provides a variety of energy solutions for a better world.



上汽通用五菱汽车股份有限公司
SAIC GM Wuling Automobile Co., Ltd.



上汽通用五菱汽车股份有限公司，是由上海汽车集团股份有限公司、通用汽车（中国）投资有限公司、广西汽车集团三方共同组建的大型中外合资汽车公司，是国内第一家国企混合所有制改革中形成的中外合资企业，拥有“五菱”、“宝骏”、“新宝骏”三个中国高价值的汽车品牌，企业坚持以用户需求为导向，为用户提供高品质的产品与服务。2020 年，上汽通用五菱全年整体销量突破 160 万大关，连续 9 个月实现同比、环比双增长，不仅成为销量第一的民族品牌，更是得到超过 2300 万用户的

认可，是拥有最多用户的民族汽车企业。目前，上汽通用五菱在国内拥有柳州河西总部、柳州宝骏基地、青岛分公司和重庆分公司四大制造基地，在海外建立了印尼子公司，形成了南北联动、东西呼应的发展格局。上汽通用五菱在国内拥有 2800 家销售网点，覆盖 98% 地级市，79% 县级市，网络覆盖率行业第一。在研发体系上，公司始终坚持自主研发，建立整车正向开发能力。

当下，汽车制造业到了转型升级的关键时期，基于国家环保、节能政策的变化和消费格局的改变，上汽通用五菱坚持聚焦用户需求，提出了“乘用化、新四化、国际化”的三大战略，从新能源车型、全球化布局和乘用车升级等多个维度出发，积极由制造企业向综合出行服务商进行升级转型。

SAIC GM Wuling Automobile Co., Ltd. (hereinafter referred to as SGMW) is a large Sino-Foreign Joint Venture automobile company composed of SAIC Motor Corporation Limited (50.1%), GM (China) (44%), and Guangxi Automobile Group Co., Ltd (5.9%). It is the first Sino-Sino-Foreign joint venture in China that came into being in the reform of mixed ownership of state-owned enterprises, which has successfully created the typical model of "less the possession and more the value of the Company in the society". It has such three valuable Chinese car brands as "Wuling", "Baojun" and "New Baojun". SGMW has always been upholding the spirit of "Perseverance with Self-strengthening", and the concept of "getting rid of backwardness, striving for development, and brining benefits to people". Besides, it adheres to the principle of user-orientation to provide users with high-quality products and service. In 2020, SAIC GM Wuling's overall annual sales exceeded the 1.6 million and achieved year-on-year and month on month growth for nine consecutive months. It has not only become the national brand with the first sales volume, but also been recognized by more than 23 million users. It is a national automobile enterprise with the largest number of users. Currently, SGMW has four manufacturing bases at home, respectively known as Liuzhou Hexi headquarters, Liuzhou Baojun base, Qingdao Branch and Chongqing Branch, set up PT SGMW Motor at Indonesia, forming the development layout featuring "North-South cooperation and East-West interaction". SGMW has a total of 2,800 sales outlets in China, covering 98% of prefecture-level cities and 79% of county-level cities, ranking first in the industry by network coverage. In terms of research and development (R&D) system, SGMW has always been adhering to the independent R&D model of "self-orientation and integrated innovation". SGMW has constantly learned, digested and absorbed these resources to establish and improve the vehicle performance development system and forward-thinking development capabilities with independent core technology. Currently, car manufacturing industry is at the crucial stage of transformation and upgrading. Based on the changes in national environmental protection and energy-saving policies, and the consumption landscape, SGMW sticks to the focus on users' needs, and puts forward such three major strategies as "Passenger Vehicle Orientation, Four New Features, and Internationalization", and embraces new consumption ecosystem from various aspects, such as NEV models, globalization plan, and passenger vehicle upgrading, and so on.

宁德时代新能源科技股份有限公司 Contemporary Amperex Technology Co., Ltd.



宁德时代新能源科技股份有限公司是全球领先的新能源创新科技公司，致力于为全球新能源应用提供一流解决方案和服务。2018年6月，公司于深圳证券交易所上市，股票代码300750。

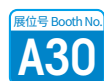
宁德时代的发展目标是以先进电池和风光水等可再生能源的高效电力系统，替代传统化石能源为主的固定和移动能源系统，并以电动化+智能化为核心，实现市场应用的集成创新。为此持续在材料体系、系统结构、极限制造以及商业模式四重维度突破创新。

2020年，公司营业收入503亿元，同比增长9.9%。动力电池国内装机量31.9GWh，市场占有率50%，境外营收同比增长295.3%。根据SNE Research数据统计，宁德时代动力电池使用量连续四年排名全球第一，公司已拥有全球最广泛的整车厂合作伙伴。

Contemporary Amperex Technology Co., Limited (CATL) is a global leader of new energy innovative technologies, committed to providing premier solutions and services for new energy applications worldwide. In June 2018, the company went public on the Shenzhen Stock Exchange with stock code 300750.

To achieve the goal of realizing fossil fuel replacement in stationary and mobile energy systems with highly efficient electrical power systems that are generated through advanced batteries and renewable energy, and promote the integrated innovation of market applications with electrification and intelligentization, CATL maintains continuous innovation in four dimensions including battery material chemistry structure system, structure system, extreme manufacturing and business model.

In 2020, the company's global sales revenue rounded off at 7.69 billion U.S. dollars, with a business growth of 9.9% YoY. The company's domestic EV battery installation volume reached 31.9 GWh, with a market share of 50%. Moreover, the overseas sales revenue increased by 295.3% YoY.



国家电网有限公司
State Grid Corporation of China



国家电网有限公司
STATE GRID
CORPORATION OF CHINA

国网电动汽车服务有限公司是国家电网有限公司的全资子公司。公司以“具有中国特色国际领先的能源互联网企业”战略目标为引领，抢抓“新基建”历史发展机遇，服务国家新能源汽车战略，服务国家能源转型战略，积极发挥基础服务提供者、生态体系建设者、技术创新引领者、投资建设带动者的定位与作用，坚决扛起央企“大国重器”和“顶梁柱”的责任与担当，以客户为中心、以市场为导向，以平台为主导、以充电桩为基础，推动“消费+工业互联网”融合发展，积极构建开放、合作、共赢的产业生态，全面提升我国充电基础设施水平，全力满足人民对绿色美好出行的需求。主营业务包含平台服务、充电服务、出行服务、能源服务、试验验证和技术标准服务、重卡服务等。

关于智能汽车解决方案 BU

汽车行业正在与人工智能、数字能源、云服务等 ICT 技术深度融合，向电动化、智能化方向迈进，成为智能世界发展的新引擎。华为于 2019 年 5 月成立了智能汽车解决方案 BU，将 30 年的 ICT 技术积累应用于汽车，携手产业伙伴推动传统汽车向智能网联汽车转型。华为定位为智能网联汽车增量部件供应商，聚焦计算、操作系统、网络、云等 ICT 技术，打造智能驾驶、智能网联、智能座舱、智能电动、智能车云五大解决方案，与产业界伙伴紧密合作，帮助车企造好车，致力于把数字世界带入每一辆车，构建美好的智慧出行生活。

采埃孚 ZF



采埃孚是一家全球性技术公司，致力于为乘用车、商用车和工业技术领域提供下一代移动性系统产品。采埃孚能使车辆进行自主观察、思考和行动。在车辆运动控制、集成式安全系统、自动驾驶以及电驱动四大技术领域，采埃孚能为现有的汽车制造商以及初创出行服务供应商提供广泛的解决方案。采埃孚能为各种车型提供电驱动解决方案。凭借其产品组合，采埃孚始终致力于推动节能减排、环境保护以及出行的安全性。

采埃孚集团 2020 年的销售额达到 326 亿欧元。集团目前在全球 42 个国家设有约 270 个公司驻地，拥有超过 15 万名员工。

ZF is a global technology company supplying systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains of Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive product and software solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies a wide range of vehicle types. With its products, the company contributes to reducing emissions, protecting the climate and enhancing safe mobility.

In fiscal year 2020 ZF reported sales of € 32.6 billion. The company employs more than 150,000 associates at approximately 270 locations in 42 countries.



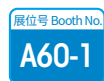
纬湃科技投资（中国）有限公司 Vitesco Technologies Holding China Co., Ltd.



纬湃科技 (Vitesco Technologies) 是全球领先的开发商和制造商，致力于为可持续出行提供先进的动力总成技术。纬湃科技提供适用于电动、混动及内燃机驱动系统所用的关键部件和智能系统解决方案，让出行变得更清洁、更高效、更经济。公司产品包括电动传动系统、电子控制单元、传感器和执行器，以及尾气后处理解决方案。2020 年，纬湃科技实现销售额近 80 亿欧元，在全球 50 多个基地雇佣 40,000 多名员工。纬湃科技总部位于德国雷根斯堡。

纬湃科技在中国有 4 个大型生产基地，深耕中国超过 26 年，此外还有 6 个研发基地以及 12 个销售办公室，雇佣超过 6,500 名员工。2021 年 2 月，上海市商务委授予纬湃科技中国公司为跨国公司地区总部称号。纬湃科技积极履行企业公民责任，在抗击疫情、义务献血、社区教育等方面发挥积极作用。2021 年，中国社会工作联合会企业公民委员会授予纬湃科技中国企业公民 520 责任品牌 60 强荣誉。

Vitesco Technologies is a leading international developer and manufacturer of state-of-the-art powertrain technologies for sustainable mobility. With smart system solutions and components for electric, hybrid and internal combustion vehicles, Vitesco Technologies makes mobility clean, efficient and affordable. The product range includes electric drives, electronic control units, sensors and actuators, and exhaust-gas aftertreatment solutions. In 2020, Vitesco Technologies recorded sales of around 8 billion Euros and employs almost 40,000 people at around 50 locations worldwide. Vitesco Technologies is headquartered in Regensburg, Germany.



特来电新能源股份有限公司 TELD NEW ENERGY Co., Ltd.



特来电是中国创业板第一股特锐德 (300001) 控股的公司，股东还有国家产业调整基金、国新基金、鼎晖投资，是新基建产业独角兽 TOP100 企业。

特来电 2014 年创立，7 年累计投资 80 亿，研发投资 13 亿，成为中国最大最强充电网运营商：

数量 世界第一：特来电累计投建充电桩超 34 万个，市场占有率 40%；

电量 行业第一：累计充电量达 90 亿度，市场占有率 42%；

流量 国内第一：注册用户 520 万，拥有最大充电工业互联网大数据；

技术 国际领先：是世界充电网技术开创者和标准制定者；研发团队 1100 人，获得专利 1331 项，首创“基于新能源汽车安全的充电网两层防护技术”，可有效减少烧车事故 73%，解决了世界性烧车难题。

运营 体系最大：特来电充电网运营服务城市已达 348 个，已成立 138 家城市运营公司，支撑 500 万辆电动汽车充电。

特来电是工信部国家工业互联网“新能源汽车充电网能源管理工业互联网平台”唯一承建主体，代表行业最高水平。

充电网实时链接着人、车，能源，高粘性高强度交互，是工业互联网最大的应用场景，是新能源和新交通双向融合的全新生态产业。

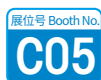
电动汽车 + 充电网是实现 2060 碳中和的最佳路径：电动汽车不烧油就不排碳，充电网既成为电动汽车的技术支撑，同时又把每个车的电池链接成一个巨大的储能网，可以大规模消纳光伏、风电、水电等新能源，让发电厂少烧煤，碳中和就实现了。

特来电使命：实现新能源车充新能源电，让尾气 and 雾霾远离人类。

地平线 Horizon Robotics



地平线是目前国内唯一一家实现汽车智能芯片前装量产的企业。得益于前瞻性的软硬结合理念，地平线自主研发兼具极致效能与高效灵活的边缘人工智能芯片及解决方案，可面向智能驾驶领域提供包括高效能汽车智能芯片、软件算法、工具链等在内的全面赋能服务。随着全场景整车智能中央计算芯片征程 5 的推出，地平线成为业界唯一能够提供覆盖从 L2 到 L4 全场景整车智能芯片方案的边缘人工智能平台型企业。



精进电动科技股份有限公司 Jing-Jin Electric Technologies Co., Ltd.



精进电动是全球新能源汽车电驱动领域的领先企业。公司致力于“做世界上最好的电动系统”，为全球客户开发、配套先进的电驱动核心零部件、总成和系统，产品覆盖乘用车和商用车，市场份额领先。公司在驱动电机、电力电子、汽车传动和软件控制方面拥有先进、全面的技术研发实力。精进电动秉承“追求极致”的企业文化，坚持精益的质量管理，产品技术领先、品质优异，多年来配套国际国内中高端整车客户，获得了多个顶级产品和质量奖项。精进电动总部位于北京市朝阳区，在上海、山东、河北、美国底特律设有研发中心或生产基地。



黑芝麻智能科技（上海）有限公司
Black Sesame Technologies (Shanghai)
Co., Ltd.



黑芝麻智能科技（上海）有限公司 2016 年分别在硅谷和上海成立研发中心，在成都、深圳、武汉、重庆、新加坡均设办事处，目前有超过 500 名员工，核心团队均来自博世、OV、英伟达、安霸、微软、高通、华为、中兴等业内顶尖公司，平均拥有 15+ 年的行业经验。

公司创始人单记章为资深图像处理专家，曾任全球第一的摄像头芯片公司研发副总裁；联合创始人刘卫红为汽车领域销售及专家，曾任全球一流的汽车零部件公司亚太区总裁。公司员工半数以上来自清华大学、上海交大、浙江大学、华中科技大学、中国科技大学等国内顶级学府，拥有 50+ 名博士及 80+ 名硕士。

黑芝麻智能科技是行业领先的车规级自动驾驶计算芯片和平台研发企业，专注于大算力计算芯片与平台等技术领域的高科技研发，能够提供完整的自动驾驶、车路协同解决方案，包括基于车规级设计、学习型图像处理、低功耗精准感知的自动驾驶感知计算芯片和自动驾驶计算平台，支撑自动驾驶产业链相关产品方案的快速产业化落地。

2019 年 8 月，黑芝麻第一颗车规级智能驾驶芯片华山一号 A500 在国内首发；2020 年 6 月，第二颗车规级智能驾驶感知芯片华山二号 A1000 发布，成为唯一可以支持 L2+ 自动驾驶的国产芯片；2021 年 4 月，华山二号 A1000 Pro 于上海车展发布，国产车规大算力芯片再升级，单颗芯片可以支持高级别自动驾驶功能，从泊车、城市内部到高速场景的无缝衔接。

公司和中国一汽、博世、上汽、百度、东风悦享、T3、均联智行、中科创达、亚太等在 L2/3 级 ADAS 和自动驾驶感知系统解决方案上展开商业合作；算法和图像处理等技术已在智能手机、汽车后装、智能家居等消费电子领域布局和商业落地。2019 年 4 月完成 B 轮融资，主要投资机构有北极光创投、君海创芯、上汽集团、SK 中国、招商局资本、芯动能等。

在中国智能网联汽车产业创新联盟中，黑芝麻智能科技作为核心成员，承担核心 IP、芯片及部分解决方案研发任务；2018 年公司成功入选“2018 中国汽车智能网联创新力量 50 强”和“2018 中国人工智能创新成长企业 50 强”。2020 年，黑芝麻加入百度 Apollo 开放生态，双方将基于华山系列自动驾驶芯片展开深度合作。同年，黑芝麻入榜“2020 胡润中国瞪羚企业”和“CB Insights 中国芯片设计企业 65 强”。



岚图汽车科技有限公司
VOYAH Automobile Technology Co., Ltd.



岚图汽车科技有限公司，组建于 2018 年底，作为中国“造车新实力”，是东风汽车集团的高端新能源品牌，充分整合东风公司超 50 年的造车技术和优势资源，以用户为中心，构建创新的商业模式，致力于成为中国高端电动汽车领导者。

岚图定位为“零焦虑高端智慧电动品牌”，以“让汽车驱动梦想，为美好生活赋能”为品牌使命，致力于在安全、品质、里程、品牌可持续发展、服务、交付等六大领域，向用户提供零焦虑的产品及体验，为当代社会新中坚力量创造现代格调的美好生活。

Established at the end of 2018, as China's "new strength in car manufacturing", Voyah Automotive Technology Co., Ltd. is a high-end new energy brand of Dongfeng Motor Group. It fully integrates Dongfeng's over 50 years of car manufacturing technology and superior resources. With its user-centric and innovative business model, Voyah is committed to becoming a leader in China's high-end electric vehicles industry. Positioned as an "anxiety-free high-end smart electric brand", with the brand mission of "cars drive dreams and empower a better life", Voyah is committed to providing users with zero-anxiety products and experiences in six areas which are safety, quality, mileage, brand sustainability, service and delivery, and to create a modern and beautiful life for the new backbone of contemporary society.

长城汽车股份有限公司 Great Wall Motor Co., Ltd.



长城汽车股份有限公司（以下简称“长城汽车”）是中国规模最大的 SUV 和皮卡制造企业，成立于 1984 年，2003 年、2011 年分别在香港 H 股和中国 A 股上市，是中国第一家同时拥有“A 股+H 股”的上市汽车企业。长城汽车旗下拥有哈弗、长城皮卡、魏牌、欧拉、坦克五个整车品牌，以及未势能源、蜂巢易创、精工底盘、诺博汽车、曼德电子电器五大零部件公司，产品涵盖 SUV、轿车、皮卡三大品类，具备发动机、变速器等核心零部件的自主配套能力。

Founded in 1984, Great Wall Motor Company Limited (hereinafter referred to as GWM) is the largest SUV and pickup truck manufacturer in China, and was listed on the Hong Kong H-share and China A-share exchanges in 2003 and 2011 respectively, making it the first listed automotive company in China to have both A-shares and H-shares. GWM has five vehicle brands - Haval, GWM Pickup, WEY, ORA and TANK - as well as five major parts companies - FTXT, Hycet, Exquisite Auto, NOBO AUTO and MIND, covering three categories of products - SUVs, cars and pickups - and possessing independent supporting capabilities for core components such as engines and transmissions.



蔚来是一家全球化的智能电动汽车公司，于 2014 年 11 月成立。蔚来致力于通过提供高性能的智能电动汽车与极致用户体验，为用户创造愉悦的生活方式。蔚来在上海、合肥、北京、南京、圣何塞、慕尼黑以及牛津等全球多地设立研发与生产机构；在中国市场初步建立了覆盖全国的用户服务体系。蔚来专注于核心技术的正向研发，目前已获得授权专利及已公开专利申请 4500 多件，建立了一套完整的包括电机、电控、电池包、智能网关、智能座舱、智能驾驶技术的独立研发体系。

NIO is a global smart electric vehicle company. Founded in November 2014, NIO's mission is to shape a joyful lifestyle by offering high-performance smart electric vehicles and being the best user enterprise. NIO has established R&D centers and manufacturing facilities in Shanghai, Beijing, San Jose, Munich, London and five other places, and has initially set up the user service network with nationwide coverage in China. Specializing in research and development of core technologies, NIO has filed and obtained over 4,500 patents, and built up a full-fledged in-house R&D system encompassing electric motors, motor controls, batteries, as well as smart gateway, smart cockpit, and smart driving technologies.

威马汽车科技集团有限公司

WM Motor Technology Group Co., Ltd.



威马汽车科技集团（WM Motor）成立于 2015 年，公司名字取自德语世界冠军（Weltmeister），是国内新兴的新能源汽车产品及出行方案提供商。作为扎根于中国的硬科技创新代表，威马汽车自创立之初便制定了明确的集团发展“三步走”战略（第一步，做智能汽车头号实力派；第二步，成为数据驱动的智能硬件公司；第三步，成长为智慧出行新生态的服务商）。

威马汽车科技集团的团队规模近 3000 人，秉承“开放，聚能，内驱，尊重”的核心价值观，构建了多元化的人才结构，汇聚了众多来自全球的全产业链人才，分布在上海（集团总部、设计·采购中心、智能网联研发中心）、北京（区域总部及政策法规协同中心）、成都（全球研发中心）、绵阳（自动驾驶技术中心）、温州（威马温州智能制造基地、生产智造与产业化研发中心）和黄冈（湖北黄冈星晖智能制造基地）。

作为实体经济的创新代表，威马汽车秉持“科技普惠”的初心，以“用得爽、用得起”的产品和服务，让每个中国家庭都拥有属于自己的新能源智能出行生活。旗下首款智能纯电 SUV 威马 EX5 自 2018 年 9 月量产交付以来，累计销量突破 6 万辆，已连续两年成为造车新势力单一车型销量冠军，并荣获 C-NCAP 碰撞五星认证。2020 年 9 月，打通家用商用全场景出行的威马 EX6 Plus 6 座正式上市。2021 年 1 月，威马汽车第三款全新智能纯电 SUV 威马 W6 量产下线，新车搭载威马与百度 Apollo 共研的“Apollo 云端智能无人泊车系统”（Cloud AVP），在感知力、智能化、自我进化力三方面达到全新高度。作为国内首台实现 L4 级别无人驾驶技术的量产车型，威马 W6 自 4 月 16 日正式发售以来，最实用的无人驾驶功能吸引了众多用户，截至今年 6 月，订单已过万。

同时，威马汽车以数据引擎驱动汽车零售模式的创新，构建了以用户为核心的新零售渠道网络，更轻量化、多元化、规模化的布局，直接触达用户端，为用户提供安全可靠、质量稳定、体验出色、成本合理的产品和服务。

华为数字能源技术有限公司

Huawei Digital Power Technologies Co., Ltd.



华为数字能源业务包括智能光伏、数据中心能源、站点能源、智能电动、嵌入式电源、综合智慧能源等，目前约有 6000 名员工，研发员工占比 60%，业务遍及 170 多个国家和地区，服务全球三分之一的人口。

Huawei Digital Power covers business domains: smart PV, data center facility, site power, mPower, and embedded power, and integrated smart energy. With approximately 6000 employees, 60% of whom are focused on R&D, Huawei Digital Power serves one third of the world's population across more than 170 countries and regions.

博世（中国）投资有限公司
Bosch (China) Investment Ltd.

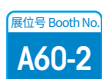


博世集团是世界领先的技术及服务供应商。博世集团近 395000 名员工（截至 2020 年 12 月 31 日）。在 2020 财政年度创造了 715 亿欧元的销售业绩。博世业务划分为 4 个业务领域，涵盖汽车与智能交通技术、工业技术、消费品以及能源与建筑技术领域。

博世在中国生产和销售汽车零部件和售后市场产品、工业传动和控制技术、电动工具、安防和通讯系统、热力技术以及家用电器。博世在 1909 年进入中国市场。博世 2020 年合并销售额达到 1173 亿元人民币。截至 2020 年 12 月 31 日，公司在华员工人数超过 53000 名。

The Bosch Group is a leading global supplier of technology and services. It employs roughly 395,000 associates worldwide (as of December 31, 2020). The company generated sales of 71.5 billion euros in 2020. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology.

In China, the Bosch Group manufactures and markets automotive original equipment and aftermarket products, industrial drives and control technology, power tools, household appliances, security and communication systems as well as thermotechnology solutions. Having established a regional presence in China in 1909, Bosch employs more than 53,000 associates (as of December 31, 2020). Bosch in China has generated consolidated sales of CNY 117.3 billion (14.9 billion euros) in fiscal 2020.



西门子电动汽车动力总成系统（上海）有限公司
Siemens Automotive ePowertrain Systems
(Shanghai) Co., Ltd.



我们致力于实现出行电气化。

凝聚来自全球的专业知识，以果敢的创业精神和强大的创新实力为驱动，公司致力于加速推进电气化出行变革，以全新的解决方案助力混合动力和纯电动汽车在全球范围内建立完整的出行工业。

公司成立于 2016 年，至今拥有 10 个研发及生产基地，超过四千名员工。这对于公司快速实现技术更新并以可持续增长的方式推动创新至关重要。

作为全球行业领导者，公司为全谱系电气化车型开发和生产定制化的高压零部件及系统，包括混合动力，插电混动和纯电动汽车。

We electrify the world of mobility.

With our global engineering expertise, bold entrepreneurial spirit and strong innovations, we are accelerating the evolution of electric mobility. Our aim is to drive forward the transition in mobility to establish hybrid and full-electric vehicles worldwide with new solutions.

Valeo Siemens eAutomotive was established in 2016 and has today more than 4,000 employees at 10 development and production sites, which are essential for the success of the agile technology company and drive innovation in a sustainable growth industry.

As a global leader, Valeo Siemens eAutomotive develops and manufactures customised high-voltage components and systems for the entire spectrum of on-road electric vehicles, including hybrids, plug-in hybrids and fully electric vehicles.

奥动新能源汽车科技有限公司 Aulton



奥动新能源，全球换电模式开创与引领者，自 2000 年起，一直专注新能源汽车换电技术研发及换电网络商业运营。

奥动拥有超过 2000 项全球换电专利技术，荣获包括世界首张电动汽车欧盟 CE 认证、国际电工认证等全球资质证书，并积极参与国内外多项换电行业标准制定工作。

目前，奥动已与包括一汽、上汽、北汽、广汽、东风、长安等 14 家主流车企达成合作，双方共同开发超 22 款换电车型。截止今年 8 月，奥动换电站已覆盖全国 25 座城市，投运超过 363 座换电站，实现规模化商业运营。

2025 年，在 " 让电动汽车摆脱充电烦恼，让电池共享出最大价值 " 的企业使命引领下，奥动计划覆盖全国 100 座城市，运营 10000 座换电站，为 1000 万辆以上新能源汽车提供换电服务，积极打造换电服务网络，成为全球领先的智慧能源服务平台。

奥动新能源，换出一片蓝天。

Aulton, an innovator and pioneer of global battery swapping model, has been concentrating on the research and development of battery swapping technology for NEV and commercial operation of battery swapping stations' (hereinafter referred to as "BSS") network since 2000. At present, Aulton has achieved deep cooperation with more than 14 automakers, including FAW, SAIC, BAIC, GAC, Dongfeng, Chang'an and so forth, to jointly develop more than 22 kinds of battery swappable cars.

Until August 2021, Aulton BSS have covered over 25 cities in China, more than 363 BSS have been put into operation.

Under the guidance of the mission, "Let EVs get rid of charging trouble, let the battery share the greatest value". Aulton has been accelerating the layout of shared battery swapping service network continuously. It goals to operate 10,000 BSS in 100 cities all over China by 2025, providing battery swapping service for more than 10 million NEVs.

In order to become the world's leading intelligent energy service platform, Aulton also actively builds up the commercial ecology of battery swapping service network, battery echelon utilization based on full lifecycle management, and intelligent data operation.

Let's switch to blue!

瑞浦能源有限公司 Ruipu Energy Co., Ltd.



瑞浦能源有限公司成立于 2017 年，是青山实业结合其自身丰富的矿产资源在新能源领域进行投资布局的首家企业。瑞浦能源主要从事动力 / 储能锂离子电池单体到系统应用的研发、生产、销售，专注于为新能源汽车动力及智慧电力储能提供优质解决方案。

公司注册资金 12 亿元，现已建成温州制造基地和上海研发中心两大基地。温州制造基地占地约 300 亩，位于温州龙湾，总投资 100 亿元以上，年产能达到 26GWh，2021 年全部建成投产。预计 2028 年产能达到 200GWh。

瑞浦能源以 VDA 和 MEB 规格尺寸的方形铝壳三元锂电池和铁锂电池为主。产品应用领域覆盖乘用车、商用车、特种车、工业车辆、工程机械装备、船舶等动力领域，以及风光电新能源电力储能接入，电网电力储能，后备电源等储能领域。

Ruipu Energy Co., Ltd. (abbreviated as REPT), established in 2017, is the first enterprise invested by Tsingshan Industry in new energy field. By virtue of Tsingshan's rich resources of nickel mine, REPT is principally engaged in research and development, production and sales of power lithium-ion battery and its systematic application program and focuses on high-quality solutions providing for BEV and intelligent power storage.

Now REPT have built Wenzhou Manufacturing Base and Shanghai R&D Center. Situated at Airport New Area, Longwan District, Wenzhou Manufacturing Base covers up to 20.2 hectares. The planned annual production capacity is 26GWh with a total investment of more than 10 billion RMB. By the end of 2021, about 26GWh has been put into production. It can be expected that another 174GWh will be put into production gradually from 2028.

Square aluminum shell ternary lithium batteries and lithium iron phosphate batteries of VDA and MEB standard sizes are our stars. These batteries can be used in various areas, such as passenger vehicles, commercial vehicles, special vehicles, industrial vehicles, engineering machinery and equipment, ships and other power fields, as well as wind photovoltaic new energy power storage access, grid power energy storage, and backup power supply and other energy storage fields.

上海快卜新能源科技有限公司
Shanghai KBVIP New Energy Technology Co., Ltd.



上海快卜新能源科技有限公司，光储充检智能电站的领跑者，是行业最早将光储充检成功商业化运营的高科技公司。快卜以上海为运营总部，以储充检 + 大数据运营为核心，开展面向全球的光储充检系统运营和平台服务。快卜是全球环境基金 GEF 示范项目，2021 年上海市服务业发展重点引导支持项目，快卜杨浦国际示范站已经累计实现了 1200 次循环的储能超充安全运营，累计 AI 检测样本量突破 200 万份。快卜自 2020 年 3 月成立以来，已在上海，广东，成都，宜宾，长春，北京等地落地多个“光储充检”一体化场景，2021 年，快卜全新推出的二代站和三代站将陆续上线，实现了移动能源、固定能源场景化连接的商业模式迭代和标准化输出。

江苏云快充新能源科技有限公司
Jiangsu YKC New Energy Technology Co., Ltd.



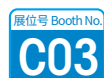
江苏云快充新能源科技有限公司成立于 2016 年，是中国领先的新能源物联网服务商，打造了全国最大的第三方充电物联网 SaaS 平台，致力为全国电桩运营商提供基于充电 SaaS 的全方位解决方案。

多年来，企业大力投入技术研发，通过充电桩底层协议打通，构建桩联网体系，接连开创行业三“最”（接入充电桩品牌最全、合作运营商数量最多、第三方直连充电桩规模最大）。未来将基于第三方充电 SaaS，打造集能源交易、设备运维、智慧金融等服务于一体的能源产业互联平台，助力我国新能源出行产业高质量发展。截至 2021 年 8 月，云快充第三方充电物联网 SaaS 平台业务已经覆盖全国 300 多个城市，合作电桩运营商超 2500 家，平台直连充电终端突破 12 万。

星星充电 Star Charge



星星充电，总部位于中国常州，专注于新能源汽车充电设备研发制造，智能平台兼容全部国标车型，产品线涵盖交直流设备、充电枪头、电源模块、智能电柜、换电设备等，掌握着智能控制、物联网、大功率定制等核心研发能力。为全球客户提供设备、平台、用户和数据运营服务，借助车辆销售、私人充电、公共充电、金融保险等业务打造用户充电全生命周期平台，通过“一端能源互联，一端产业互联”的企业战略，最终实现“推动人类交通电动化，引领全球能源数字化”的长远梦想。现已发展成为全球极少数始终盈利的充电运营商，在大功率充电技术、智能运维平台等方面优势显著。星星充电曾获国家能源局“能源互联网重大应用示范”项目、国家工信部“智能制造 2025 新模式应用”项目、国家科技部重点研发项目、工信部绿色制造系统集成项目等多个国家级项目，入选国家级示范平台；并牵头成立新能源汽车智慧能源装备创新中心，也曾获得极具专业含金量的 ASPICE CL1 认证、IATF16949 和 VDA6.3 认证，持续申请研发专利超 400 件。星星充电是全球 60 多家知名车企充电生态战略合作伙伴，其中不仅包括梅赛德斯奔驰、保时捷、宝马、捷豹路虎、大众等国际品牌，还包括比亚迪、北汽等国内车企。2019 年，星星充电与大众汽车、一汽集团、江淮汽车成立合资公司，创造了大众汽车在中国首次与民营企业合资的历史。作为充电领域的国标制定单位，星星充电参与了国内所有充电标准的起草，并作为中方代表参与 IEC 国际标准的起草，同时也是国家标准委员会指定的国内大功率充电两家牵头单位之一。2020 年，星星充电首创提出“移动能源网”概念：借助于移动的交通工具、移动的能源载体、移动的补能设施和移动的通讯终端所构建的时空泛在能源互联网络。创新“云管端”即“硬件+软件+服务”的商业模式，堪称数字能源生态中国样本。在提高能源利用效率，促进结构调整和节能减排，助力民族汽车工业屹立于世界之巅，推动国家新能源产业发展壮大的事业上，星星充电永远不遗余力。



株洲中车时代电气股份有限公司
ZHUZHOU CRRC TIMES ELECTRIC Co., Ltd.



株洲中车时代电气股份有限公司是中国中车的二级子公司，2006 年 12 月 20 日在香港 H 股上市（股票代码 03898.HK），是中国轨道交通装备制造业首家境外上市公司，2021 年 9 月 7 日，公司登录 A 股科创板，实现 A+H 双通道资本布局（股票代码：688187）。

经过多年的发展，公司已经具有极强的自主研发和技术创新能力，不仅自主掌握了具有列车“心脏”和“大脑”之称的牵引电传动和网络控制关键核心技术，同时坚持“同心多元化”发展战略，将轨道交通牵引电传动技术应用于新能源汽车领域，形成以电动汽车电机驱动系统为核心的系列产品及配套产业链。公司以央企联盟乘用车共性技术研究项目为切入点，开展乘用车电机驱动系统研究，在高功率密度、高可靠性、高安全性、适合批量生产的结构设计技术进行了不断的摸索，并实现了多项技术突破，性能指标处于国内先进水平。目前已经联合整车企业累计完成多款乘用车电机驱动系统的开发，产品应用到纯电动乘用车及专用车、混合动力轿车、燃料电池轿车等领域，并努力成为新能源汽车电机驱动系统解决方案的全球优选服务商。

Zhuzhou CRRC Times Electric Co., Ltd., which is a second-level subsidiary of CRRC, with H shares listed in Hongkong stock exchange (stock code: 03898.HK) on December 20, 2006, is the first overseas listed company of the rail transit equipment manufacturing industry in China. The Company listed with A stock shares in SSE STAR MARKET (stock code: 688187) on September 7, 2021 and accomplished capital distribution of A and H stock shares. After years of development, the Company already has a strong ability in independent R&D and technological innovation. It not only masters the crucial technologies of electric traction drive and network control, which are known as the "heart" and "brain" of a train, but also adheres to a "concentric diversified" development. Through the application of the electric traction drive technology of rail transit to the new-energy automobile field, series of products and a supporting industrial chain with the motor drive system of electric automobile as the core have been formed. With the technical research project on generality of passenger vehicles of the central enterprise alliance as a breakthrough, the Company has conducted a research on the motor drive system of passenger vehicles and it continues to explore the structural design technology that is suitable for mass production with high power density, high reliability and high security. In addition, it has achieved a number of technological breakthroughs with the performance indicators being in the domestic advanced level. Currently, it has completed the development of motor drive system for a total of many types of passenger vehicles in combination with complete vehicle enterprises. The products are applied to the fields of pure electric passenger vehicles and special vehicles, hybrid cars, fuel cell cars, etc. and the Company is making efforts to become the global foremost service provider in providing solutions to the motor drive system of new-energy automobile.

雄韬氢雄 HydraV



雄韬氢雄致力于成为受人尊敬的大功率燃料电池服务商，打造产品核心竞争力，以“专业、高效，用氢能让生活更美好”为企业文化。在雄韬氢雄董事长熊云博士带领下，汇聚行业领军人才，覆盖材料、发动机和整车应用领域。

燃料电池发动机功率覆盖 52-130kW，实现了关键零部件国产化，各项性能处于国内领先水平，并已实现多种车型应用。最早推出氢燃料重型卡车、9 吨 /18 吨氢燃料环卫车等车型。率先开启全国氢能示范运营先河，已在多地批量投放辆氢能源公交车、重卡和物流车，累计运营里程超过 1000 万公里，为全国前列。

雄韬氢雄联合同济、华南理工、太原理工和武汉理工大学，进行前瞻应用开发、上游材料、系统及关键材料的联合开发，并共同建立联合实验室。

HydraV aims at delivering reliable and remarkable fuel cell products and services. HydraV lays out a comprehensive domestic supply chain, including key components, system integration, and applications. HydraV builds an experienced and expertized team led by Dr. XIONG Yun, a renowned expert in this industry.

The fuel cell systems independently developed by HydraV exhibit excellent performance and have been applied to various FCEVs and construction machinery. At present, more than 200 FCEVs powered by HydraV fuel cell products are under service throughout China, and the accumulated mileage has surpassed 10,000,000 kilometers.

HydraV also collaborates with renowned universities, such as Tongji University and South China University, to optimize fuel cell products and provide more efficient zero-emission solutions.



英飞凌科技（中国）有限公司
Infineon Technologies China Co., Ltd.



英飞凌科技股份公司是全球领先的半导体科技公司，我们让人们的生活更加便利、安全和环保。英飞凌的微电子产品和解决方案将带您通往美好的未来。2020 财年（截止 9 月 30 日），公司的销售额达 85 亿欧元，在全球范围内拥有约 46,700 名员工。2020 年 4 月，英飞凌正式完成了对赛普拉斯半导体公司的收购，成功跻身全球十大半导体制造商之一。

英飞凌在法兰克福证券交易所（股票代码：IFX）和美国柜台交易市场 OTCQX International Premier（股票代码：IFNNY）挂牌上市。

Infineon Technologies AG is a world leader in semiconductor solutions that make life easier, safer and greener. Microelectronics from Infineon are the key to a better future. In the 2020 fiscal year (ending 30 September), Infineon reported revenue of more than € 8.5 billion with a workforce of some 46,700 people worldwide. Following the acquisition of the US company Cypress Semiconductor Corporation in April 2020, Infineon is now a global top 10 semiconductor company.

Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the over-the-counter market OTCQX International Premier (ticker symbol: IFNNY).



德州仪器 (TI)

Texas Instruments Incorporated



德州仪器 (TI) (纳斯达克股票代码: TXN) 是一家全球化的半导体公司, 致力于设计、制造、测试和销售模拟和嵌入式处理芯片, 用于工业、汽车、个人电子产品、通信设备和企业系统等市场。我们致力于通过半导体技术让电子产品更经济实用, 创造一个更美好的世界。如今, 每一代创新都建立在上一代创新的基础之上, 使我们的技术变得更小巧、更快速、更可靠、更实惠, 从而实现半导体在电子产品领域的广泛应用, 这就是工程的进步。这正是我们数十年来乃至现在一直在做的事。欲了解更多信息, 请访问公司网站 www.ti.com.cn。

Texas Instruments Incorporated (Nasdaq: TXN) is a global semiconductor company that designs, manufactures, tests and sells analog and embedded processing chips for markets such as industrial, automotive, personal electronics, communications equipment and enterprise systems. Our passion to create a better world by making electronics more affordable through semiconductors is alive today, as each generation of innovation builds upon the last to make our technology smaller, more efficient, more reliable and more affordable – making it possible for semiconductors to go into electronics everywhere. We think of this as Engineering Progress. It's what we do and have been doing for decades. Learn more at TI.com.



芯力能 (上海) 技术咨询有限责任公司

Silicon Mobility (Shanghai) Technology Consulting Co., Ltd.



芯力能 (Silicon Mobility) 是技术引领者和 FPCU 的发明者。芯力能正在以更干净、更安全和更智能的方式加速电动出行演进。公司为汽车行业客户设计、开发和销售灵活、实时、安全和开放的半导体解决方案; 在确保乘客安全的前提下, 提高能源效率, 减少污染物排放。

芯力能的产品可用于控制电动和混动汽车的电机、电池和能源管理系统。通过使用芯力能的技术, 汽车厂商可以提高效率, 减小电机的尺寸、重量和成本, 同时增加电池续航里程和寿命。它的技术和产品正在加速车厂的动力系统电动化。

Silicon Mobility is a technology leader inventor of the FPCU semiconductor architecture for ultra-fast and critically safe real-time control. Silicon Mobility accelerates all e-mobility transitions in the cleanest, safest, secure, and smartest way. The company designs, develops, and sells flexible, real-time, safe, and open semiconductor solutions for the automotive industry used to increase energy efficiency and reduce pollutant emissions while keeping passengers safe.

Silicon Mobility's products control electric motors, battery, and energy management systems of hybrid and electric vehicles. By using Silicon Mobility's technologies, manufacturers improve the efficiency, reduce the size, weight, and cost of electric motors, and increase the battery range and durability. Its technologies and products accelerate the car's powertrain electrification for OEMs.

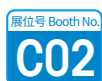


苏州国芯科技股份有限公司
Suzhou China Core Technology Co., Ltd.



苏州国芯科技股份有限公司是我国从事国产自主嵌入式 CPU 技术和芯片研发与产业化应用的高科技企业。公司先后承担和完成了多个“核高基”国家重大科技专项，在信息安全、工业控制、汽车电子、航空航天、网络通信等关键领域，公司攻克了一批国家急需的关键芯片，实现了芯片国产化。

公司在汽车电子 MCU 领域，开发了系列车身控制芯片及动力总成芯片，并实现了汽车前装批量应用。其中 CCFC2002BC 广泛应用于空调、照明、车门、车窗及座椅控制、网关、制动与稳定控制。兼容性设计使客户能够在较短时间内切换应用和实现量产，提高了国产化效率，赢得了客户和市场的认可和赞誉。CCFC2003PT 已经实现国产发动机动力总成的应用装车，实现了发动机控制领域的国产化替代。



上海氢晨新能源科技有限公司
Shanghai H-Rise New Energy Technology Co., Ltd.



上海氢晨新能源科技有限公司成立于 2017 年，是一家专注于高密度燃料电池电堆研发、生产、销售及总体方案的高科技企业。氢晨科技是落实上海交通大学与临港集团科技成果转化的典型代表，落户于中国（上海）自由贸易试验区临港新片区。经过 10 余年的持续研发，掌握了双极板、膜电极、大功率电堆的核心技术，形成了近 200 项的完整知识产权体系；开发的电堆产品涵盖乘用车、公交车、重型卡车等多应用场景；开发的自主产线达到国内领先水平。

Shanghai H-Rise New Energy Technology Co., Ltd. (H-Rise Technology for short), founded in 2017, is a high-tech enterprise focusing on the R&D, production, sales and overall solutions of high-density fuel cell stacks. Located in Lingang Special Area of China (Shanghai) Pilot Free Trade Zone, H-Rise Technology is a typical representative of the transformation of scientific and technological achievements from Shanghai Jiaotong University and Lingang Group. After more than 10 years of continuous research and development, we not only master the core technologies of bipolar plates, membrane electrodes and high-power stacks, which establish a complete intellectual property system of nearly 200 items, but also develop stack products and utilized them in many application including passenger cars, buses, and heavy-duty trucks.[zy1] Thus, our independent production line developed has reached the domestic leading level.

SK Innovation



SK 集团以创造社会价值和幸福经营为目标，在传统的能源化工，移动通讯等领域之外，持续追求新能源产业的发展。SK 集团是韩国三大集团之一、韩国最大的能源化工企业，也是最大的移动通讯企业。

SK 集团旗下 SK innovation 是集团能源化工板块，动力电池领域的核心企业。从 '96 年开始研发锂电池，'06 年开发车用动力电池，'12 年实现商业化应用生产，'14 年开始与北汽集团合作开启中国电池事业，'20 年首次实现了 811 三元锂电池的商业化应用。

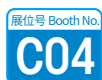
SK innovation 不断扩大电池事业，目前已在中国、韩国、美国、匈牙利拥有动力电池工厂，2025 年产能预计突破 200Gwh 以上。位于中国的工厂坐落在江苏省常州市和盐城市。SK innovation 生产的动力电池具有高安全性、长寿命、高能量密度等优势，并正积极开发全新商业模式—BaaS 电池及服务。

快电 KuaiDian



快电，第三方充电网络。连接不同品牌新能源运营商，车主可快速找到好用充电桩，一键扫码充电；快电为运营商提供流量等线上运营服务，以及巡检、运维、清洁等落地服务，提高充电桩利用率，缩短投资回报周期。

Kuai Dian is a third-party charging network. By connecting with different new energy operators, Kuai Dian helps car owners easily use charging piles by scanning QR code; Kuai Dian provides operators with online operation services as well as landing services in charging stations such as supervision, maintenance, and cleaning to improve the utilization rate of charging piles and shorten the period of return on investment.



爱弥库（苏州）试验设备有限公司
EMIC Corporation Japan

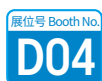


EMIC 株式会社创立于 1971 年，拥有从事复合环境振动设备研发及生产 50 年历史，产品涉及汽车、航空航天、环境模拟等核心专业技术。

总部设立在日本东京，在全球拥有 2 处研发中心、2 处制造工厂，10 处 ISO17025 认证试验中心，30 处销售及售后服务据点，年平均销售额 50 亿日元。

2017 年收购 NISSOKU 公司，同时与日本 SUGA 公司结成战略伙伴关系，实现了环境模拟测试产品的全面覆盖。

2017 年，在中国苏州建设新工厂，开始逐步实现振动及环境设备国产化制造，受 COVID19 疫情影响，目前只实现了环境测试设备的本地化设计及制造，振动设备国产化推动中。



深圳基本半导体有限公司
Shenzhen BASiC Semiconductor Co., Ltd.



深圳基本半导体有限公司是中国第三代半导体行业领军企业，专业从事碳化硅功率器件的研发与产业化，在深圳坪山、深圳南山、北京亦庄、南京浦口、日本名古屋设有研发中心。公司拥有一支国际化的研发团队，核心成员包括来自清华大学、剑桥大学、瑞典皇家理工学院、中国科学院等国内外知名高校及研究机构的十多位博士。

基本半导体掌握国际领先的碳化硅核心技术，研发覆盖碳化硅功率器件的材料制备、芯片设计、晶圆制造、封装测试、驱动应用等全产业链，先后推出全电流电压等级碳化硅肖特基二极管、通过工业级可靠性测试的 1200V 碳化硅 MOSFET、车规级全碳化硅功率模块等系列产品，性能达到国际先进水平。

Shenzhen BASiC Semiconductor LTD., the leading enterprise of Wide-band Gap semiconductor industry in China, is committed to the R&D and industrialization of SiC power devices, and set up R&D centers in Pingshan Shenzhen, Nanshan Shenzhen, Yizhuang Beijing, Pukou Nanjing and Nagoya Japan. BASiC has established a world-class R&D team, the core members include more than 10 PhDs from Tsinghua University, University of Cambridge, KTH Royal Institute of Technology, Chinese Academy of Sciences and other well-known universities and research institutions at home and abroad.

BASiC master the global advanced core technology of SiC. The R&D fields cover the whole industrial chain of SiC power devices, such as epitaxial preparation, chip design, wafer manufacturing, packaging test and driver circuit application etc. Successively launched series of products such as full-current and full voltage range SiC schottky diode, 1200V SiC MOSFET which has passed the reliability test of industrial level and automotive level SiC power module etc. The products have reached the international advanced level.