

Model S四驱版



model X



# 电动全轮驱动系统即将获得新生

## New Electric All-wheel Drive System

### ——斯巴鲁PK特斯拉

### — Subaru and Tesla

文/ 达洁 Text/ Da Jie



斯巴鲁汽车一向致力于新技术的开发，左右对称全时四轮驱动系统和斯巴鲁水平对置发动机两大技术似乎已成为斯巴鲁的技术“标签”。左右对称全时四驱系统这项看家法宝更是其自主研发的核心技术。近日，斯巴鲁又有新动作，正在研发电动四轮驱动系统。斯巴鲁正在研发电动四轮驱动系统，将与该技术已经应用于量产车的特斯拉竞争。斯巴鲁PK特斯拉将不可避免。

斯巴鲁研发电动四驱系统应用旗下车型

斯巴鲁汽车是一家专门生产四驱轿车与SUV的汽车厂商。目前，对外销售的车型主要有跑车BRZ、紧凑型车翼豹、中型车力狮，紧凑型SUV森林人、XV和中型SUV傲虎

Subaru Car has always been committed to the development of new technologies. left and right symmetrical full-time four-wheel drive system and horizontally placed engine technology are two important technologies for Subaru. The front one is its core tech independently developed. Recently, Subaru is developing the electric four-wheel drive system, which will compete with that of Tesla.

Subaru: electric all-wheel-drive system

Subaru Car is a company specializing in the production of four-wheel drive cars and SUV cars. Currently, the main models on sale are sports car BRZ, compact car Wing Leopard, mid-size Lion, compact SUV Forester, XV and etc. These models use full-time four-wheel drive systems which are symmetric in the left and the right. After the success of the



等车型，这些车型现阶段全部采用的是左右对称全时四轮驱动系统。未来电动四驱系统研发成功后，斯巴鲁旗下部分车型或将应用这一新系统。

电动四轮驱动系统顾名思义就是在基础的四驱系统上面安装上驱动电机，依靠锂电池模块提供动力源，从而实现驱动的系统。相比传统四驱车型它没有传统意义的中央差速器、分动箱和传动轴，它的四驱系统实现方式是通过在车辆上设置电机来驱动，并通过电动机控制装置来实现前后轴的动力分配。

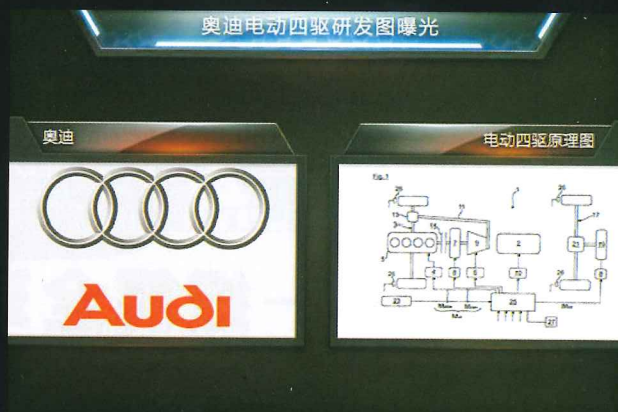
#### 斯巴鲁电动四驱系统PK特斯拉

斯巴鲁之外，目前火热的特斯拉电动车已经开发出双电机四驱系统，并应用于旗下首款SUV model X车型上，该车将于今年在欧洲率先上市。特斯拉正在考虑推出Model S纯电动跑车的四轮驱动版。Model S的四驱系统或将由两套电动机实现前后桥的驱动力，四轮驱动板无疑将大幅度地提升整车的操控稳定性以及通过性。

此外，还有德系品牌BBA之一的奥迪汽车也计划研发该技术。奥迪未来的部分科技计划也已经通过专利申请曝光，其中一项就是电动全轮驱动系统，组合了快速反应四轮驱动和电驱动。

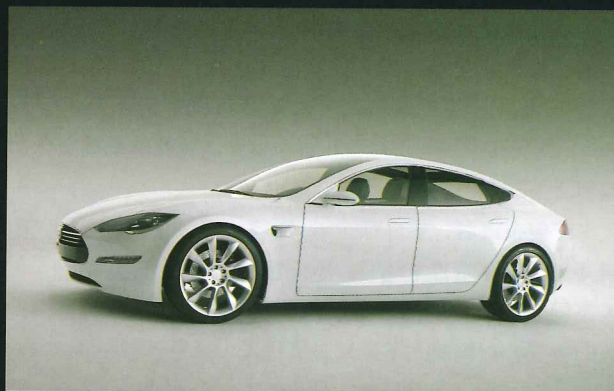
development of the future electric all-wheel-drive system, it will be used in a part of models from Subaru.

Electric four-wheel drive system means that the drive motor is installed in the basic all-wheel-drive system. It takes the lithium battery module for the provision of power. Compared with the traditional all-wheel-drive models, it has no traditional differential, transfer case and driving shaft. It is implemented through the motor. Also, the power distribution in the front and rear axles is realized by the motor control device. Subaru PK Tesla with regard to the electric all-wheel-drive system



In addition, Tesla has developed its electric all-wheel-drive system with dual motors which are applied in the first SUV X model. This X Model will be on sale in Europe in this year. Tesla is considering a launch of a four-wheel drive version of the Model S all-electric sports car. The Model S all-wheel-drive system may realize the driving force with the front and rear axles through the dual sets of motors. The four-wheel drive plate will greatly improve the handling stability and so forth.

Audi also plans to develop the technology. A part of Audi technology has been exposed through the application for a patent. One of them is the electric all-wheel drive system, which combines the rapid response four-wheel drive and the electrical drive.





# 第三次工业革命 机器人迅速崛起(三)

## The third industrial revolution Robots emerge quickly

### ——缓解全球正蔓延的“护士荒”

### Ease the global emerging “nurse shortage”

文/季克荣 Article / Ji Kerong

在日本大阪的松下纪念医院，病员躺在病床上，一位到“职”已经四年的老员工“护士”——Hospi——竟是机器人，会为你送药到床前来的。这种情景对患者已不陌生，只是偶尔有孩子会好奇地跟着跑之外，Hospi在走廊上穿梭已是寻常风景，司空见怪。

#### 信任机器人变成帮手

松下纪念医院隶属于松下集团（Panasonic），为日本最早导入服务型机器人的医院，因此他们也比所有人提早发现，“不信任”是个棘手的问题。

初导入时，碰到最大的问题是Hospi“水土不服”，开始颇受冷落。护士认为“自己来还比较快！”“已经够忙了，还要熟悉新机器，很麻烦！”为此，Hospi计划主持者大阪工业大学为了提高人们使用的意愿，花了一年时间反覆验证机器人带来的好处，由特定单位带头示范，证明Hospi的确比人快，使用率才逐渐提升。医院的职场文化，也因之而改变。

当值夜班时，要麻烦Hospi送药，明知道它听不见，药剂师还是会不由自主地说：不好意思，请跑一趟。Hospi和人不同，不管再晚都不会累、有求必应。有这样的帮手，人们很安心。机器人不是用来取代人，只是当帮手。

In Osaka, Japan's Panasonic Memorial Hospital, the patient lying in bed, a four-years-old employee "nurse" —Hospi— turned out to be a robot, it will take medicine to your. The situation was no wired to the patients, only occasional the children will run with it curiously, it is so familiar unusual scenery for Hospi shuttle in the hallway.

#### Trust robot can be a helper

Panasonic Memorial Hospital affiliated to the Panasonic (Panasonic), first imported hospital service robot for Japan, so they also earlier found that "distrust" is a thorny problem than others,.

The biggest problem when early imported Hospi was "not adjusted to the environment, it was left out at the beginning. The nurses think that "they are faster than it!" "It was very troublesome in this busy situation, but also need to familiar with the new machine!" Therefore, Hospi plan presided over Osaka University of Technology in order to improve the willing usage for people, spent a year to repeat to verify the benefits of the robot, took the lead in demonstrations by specific unit, prove Hospi indeed faster than people, gradually to increase utilization rate. The hospital workplace culture is changing by then. When the duty shift, need Hospi to deliver the medicine, quite well know that Hospi is can't hear that, but the pharmacist will involuntarily said: I'm sorry, please run a trip. Hospi and person is different, it will not be tired and do as you required no matter how late. It was soft touch to own such a helper.

Robot is not to replace people, it was just a helper.

#### Teach robot to deliver medicine

In the underground floor of Panasonic Memorial Hospital





## 教会机器人跑腿送药

在松下纪念医院地下一楼的药剂部，机器人“Hospi”有138cm高、63cm宽，各为粉红、绿、黄、蓝、橘色的圆筒型。她们在这里正透过头部荧幕画面，露出睡眠惺忪的表情，告诉人们：“我正在充电，等待送药！”

机器人Hospi送药的流程如下：1.药剂师装配药物：药剂师以识别证轻触机器人感应区解锁，打开Hospi“肚子”，放入装有药品的A4大小托盘。2.设定配送目的地：页面有各楼层护理站的选项，设定目标后，Hospi发出音效；开始移动，离开药剂部。3.不伸手就能搭电梯：透过无线网络连线，也同步设定电梯楼层。Hospi进电梯定位后就能自动关门上楼。4.护士开锁取药：Hospi行走时无声、遇人自动闪避，抵达护理站后以红灯提醒护士取药，不打扰病患。5.完成任务自动返航：循同样路径返回药剂部。

随电力存量显示想睡、笑脸等表情，夜间行走时脚部发光，避免看不清楚。

Hospi的工作流程，与原本使用的气压输送系统比较，不只安装成本节省约三分之一，保养维修费用也是原本的五分之一。

## 使用机器人缓解“护士荒”

Hospi只要6分钟就能完成一趟送药工作，据医院统计，导入Hospi后，每天至少省去6个小时的人力劳动时间，减轻了“护士”的劳动。

“护士荒”正蔓延全球，高龄化的日本尤为稀缺。日本厚生劳动省统计，2011年，日本护理师缺额达5.6万人，全国约有七成医疗院所护理师人手不足。日本一个护士须照顾7名病人，护病比约1:7，与美国、德国、丹麦等国的1:4、1:5相较，在先进国家中排名末位。

如今，医生诊断、开处方，药剂师配药，护士照顾病人，这些工作必须由人亲自做，是机器人没办法取代的。医院的其他“谁都可以做”的杂务，则让机器人来帮忙。

使用机器人可以缓解日本、台湾等地所面临的医护人员短缺问题，为缓解“护士荒”找到一个解决方案。

medicament department, the robot "Hospi" is 138 cm tall, 63 cm wide, cylinder as pink, green, yellow, blue, orange for each type. They are here through the screen to show the sleepy eyes, and telling to people: "We are charging, and waiting to send medicine!"

Robot Hospi delivery process is as follows: 1. The pharmacist assembly drugs: pharmacists to identify the light touch in induction area to unlock robot, open the Hospi "stomach", put the drugs in the A4 size tray.

2. Set the destination: page sheet has the options of each floor's nursing station, after setting the destination, Hospi will emit sound; and begin to move away from pharmaceutical department.

3. Do not need to stretch out its hand to take the elevator, through the wireless network connection, also synchronize to set the elevator floor. Hospi can automatically shut up the door after positioning at the elevator.

4. The nurse unlock and get medicine: Hospi is walking with silence, to evade automatically when meeting people, after arriving at the nursing station will alert the red light to remind the nurse to take the medicine, and will not disturb the patients.

5. Complete tasks automatically return back: return to pharmaceutical department follow the same path.

Along with the power of memory showed that if want to sleep, smile and other expressions, such as lightening the foot when walking at night, and to avoid can't see clearly.

Hospi's workflow, compared with the original pneumatic system, it is not only save about a third installation cost, the maintenance cost is one fifth of the original ones.

## Use robot to ease the "nurse shortage"

Hospi to complete a trip to send medicine as long as 6 minutes, according to hospital statistics, after importing Hospi, had saved at least six hours a day of human labor time, reducing the labor of "the nurse."

"The nurse shortage" is spreading all over the world, aging Japan is particularly scarce.

Japan's health ministry statistics, in 2011, the Japanese nurse practitioner shortage of 56000 people, about seventy percent of the country medical institutes nurses understaffed.

A nurse need to take care of seven patients in Japan, nurse-patient is about 1:7, compared the same with the United States, Germany, Denmark and other countries of 1:4, 1:5, ranked at last in the advanced countries.

Today, the doctor diagnose, prescription, pharmacists, pharmacy, nurses are taking care of the patients, all the work had to be done by the man himself, the robot can't replace. The other chores of "anyone can do it" in the hospital, to let the robot to help.

Using a robot can ease Japan, Taiwan and other places facing shortage of medical staff, to find a solution to alleviate "nurse shortage".





## 耐普恩 建国内首条年产百万只超级电容器生产线

Nepuenergy To build the first annual output of one million super capacitor production line in China

时间	主题	主讲人	公司
10:00-10:40	超级电容的发展与应用	杨恩东博士	上海奥威科技开发有限公司
11:00-11:40	大功率电容型锂离子电池性能及应用	李睿博士	朝阳立泰新能源有限公司
中午休息			
14:00-14:40	湖南耐普恩电科技有限公司新闻发布会	黄浩宇董事长	湖南耐普恩电科技有限公司
14:50-15:30	石墨烯材料在超级电容器和锂电中的应用介绍	闫立群董事长	碳世纪科技有限公司

湖南耐普恩电科技有限公司国内首条年产100万只超级电容器生产线正式投产，该生产线投资超过4000万元，涵盖了极片制备、单体组装全工艺流程，标志着国内超级电容器行业长期被国外厂商垄断的局面将要被打破，将加速我国超级电容器市场的发展。

由该条生产线出来的650F、1200F、2000F、3000F单体已经在电梯节能系统、风光互补路灯储能系统、AGV机器人储能系统、汽车启停装置等方面得到了实质性应用。

Hunan Nepuenergy technology co., LTD. The domestic first annual output of 1 million super capacitor production line has formally put into production, the investment for this production line is more than 40 million yuan, covers the pole piece to assemble the whole technological process, preparation, monomer of which marks the

domestic super capacitor industry will be broken the long-term monopolized by foreign manufacturers, it will accelerate the development of the super capacitor market in China. The products from this production line of 650 F and 1200 F, 2000 F, 3000 F monomers have been substantial applied in the elevator energy-saving systems, scenery complementary street light energy storage system, AGV robot energy storage system, car start-stop devices etc.

## 特斯拉 第200个充电站开放使用

Tesla's The 200th charging station has been opened for use



电动汽车公司特斯拉宣布，其第200个超级充电站已经开放使用了。这个超级充电站位于美国加州南部的奥克斯纳德（Oxnard）。超级充电站可让特斯拉电动汽车30分钟充满电。

目前特斯拉已经分别在在北美、欧洲和亚洲建造了114座、66座、20座超级充电站。

Electric vehicle company Tesla has announced that its 200th super charging station has been opened for use. This super charging station is located in the southern California Oxnard (Oxnard). Super station can make Tesla electric vehicle charging in full electricity in 30 minutes.

Tesla currently has respectively built 114 super stations in North America, 66 super stations in Europe, 20 super stations in Asia.

## 福特/现代起亚 竞推混动车型挑战普锐斯

Ford/Hyundai KIA Promote hybrid model to challenge the Prius



福特、现代和起亚近来都公开表示，有意打造专门定位油电混合动力车的新产品，同丰田普锐斯争夺市场，新车问世时间大约在2016至2018年前后。

现代汽车正在美国测试一款以伊兰特紧凑型车为蓝本的混合动力车，旨在同丰田普锐斯争夺市场。

现代起亚也准备在“两年内”推出专门的油电混动型号。

福特正在酝酿全新紧凑型油电混合动力车系列，新混动车将以福特新C2全球紧凑架构平台为蓝本。

福特还筹划在密歇根州Wayne兴建一座新混动车工厂，年产能120,000辆。

Ford, hyundai and Kia have recently said publicly that intends to make special new product positioning petrol-electric hybrid, and compete with Toyota Prius, the launch time of the new car will be about from 2016 to 2018.

Hyundai Auto is testing an Elantra compact car as the blue book hybrid car, aim at competing with Toyota Prius.

Hyundai and Kia are also preparing to launch special oil electric hybrid models in "two years".

Ford is brewing a new compact petrol-electric hybrid series, a new hybrid will make the new global compact C2 framework platform as the bluebook of Ford.

Ford is also planning to build a new hybrid factory in Wayne of Michigan, annual production capacity will be 120000 cars.



## 郑州日产 纯电动汽车亮相西安新能源车展

Zhengzhou Nissan Pure electric vehicles had shown at Xi 'an new energy auto show

郑州日产的帅客、锐骐纯电动车一同亮相西安新能源车展，换电模式下借助专用设备实现整体底盘换电，整个过程只需3分钟。帅客纯电动汽车采用的三元系锂电池，续航里程最高可达240公里。锐骐纯电动汽车针对电力、公安、消防、市政、通信等多种行业设计，其承载大、动力强劲、灵活空间的特点，为各行业工作者提供有力的工具支持。

Zhengzhou Nissan SUCCE, RuiQi pure electric vehicles had shown at Xi 'an new energy auto show, with pure electric vehicles in the electric mode with the aid of special equipment to realize the whole chassis in electricity, the whole process only 3 minutes. SUCCE pure electric vehicle is using ternary lithium-ion batteries, endurance driving range can be up to 240 kilometers. The designed of RuiQi pure electric vehicle aim at electric power, public security, fire protection, municipal, communications, and other industries, the characteristics of large bearing capacity, powerful and flexible space have provided the powerful tools to support workers for every industry.



## 松芝股份 拟募资10亿发展电动汽车空调

Songz Share plans to invest 1 billion to develop electric vehicle air conditioning

松芝股份发布了非公开发行预案，公司拟以13.02元/股非公开发行股票数量为不超过76,804,700股。此次募集资金总额不超过100,000万元。

松芝是A股市场唯一一家以移动空调业务为主业的上市公司。本次非公开发行股票所募资金将用于

公司新能源汽车空调的技术研发、产能提升、市场拓展和人才引进等各项经营活动。

Songz Share has released non-public plans, the company proposed to 13.02 yuan/share non-public stock quantities are not more than 76,804,700 shares. The invested amount does not exceed 1 billion yuan.

Songz Share is the only carrier in the A-share market in the mobile air conditioning business of listed companies. The non-public funds raised by a stock will be used in the company of new energy automotive air conditioning technology research and development, production capacity, market development and talent introduction and other business activities.



## 比亚迪 前三季净利同比减少16.38%

BYD the net profit at the first three quarters has fell 16.38%

比亚迪(002594.SZ)公告了三季报，1-9月份实现营业收入404.09亿元，同比小幅增长4.4%；净利润3.89亿元，同比减少16.38%。扣除非经常性损益后，该公司前三季亏损3.9亿元。

虽然新能源车板块快速增长，1-9月，比亚迪新能源车秦销量累计达到9473辆，纯电动E6销量达到2004辆。但在整体业务中所占比例依然不大，难以抵消传统汽车因销量下滑而丢失的利润。

BYD (002594 SZ) has announced the three quarterly reports, it has realized the business income of 40.409 billion yuan from January to September, raised up 4.4% compared with the same season, Net profit of 389 million yuan, dropped down 16.38% compared with the same season. After deducting non-recurring gains and losses, the company has lost of 390 million yuan in the first three quarters.

Although the rapid growth of new energy vehicle plate, from January to September, BYD new energy vehicle Qin has been sold out for totaled 9473 vehicles, pure electric vehicle E6 has been sold out for 2004 cars. But accounted for a small part of the overall business share, it is hard to offset the traditional automobile for the decline in sales and lost profits.





## 大众 汽车与滴滴合作提供electric up! 电动车专车服务

Volkswagen has cooperated with DiDi to provide electric up! Electric vehicle service



大众与滴滴将合作推出大众汽车新能源车滴滴专车服务，该合作将在上海首先启动。

本次合作所采用的大众汽车electric up! 纯电动车，其电动机输出功率为60千瓦/82马力，百公里加速仅需12.4秒，最高车速为130公里/小时，电池续航里程160公里。

Volkswagen has cooperated with Drabs to promote the Volkswagen new energy vehicle Drops limousine service, the cooperation will be first launched in Shanghai.

The collaboration is adopted of Volkswagen electric up! Pure electric vehicles, the motor output power is 60 kw / 82 HP, hundred kilometers

acceleration just need 12.4 seconds, top speed of 130 km/h, battery endurance driving range of 160 kilometers.

## 欣锐特 首推家电式大功率充电机

SHINRY The first home appliance type high power charger



国内车载电源企业深圳市欣锐特科技提出充电设备“家电化”概念，推出40KW--320KW新能源汽车大功率充电机，体积、重量是传统充电机的十分之一，有壁挂式、拉杆箱式、手推车式三种造型，体积相当于不同规格的行李箱大小。简化了功能键设计，并有显示屏可显示调节参数。据称充电效率达到98%。这或将对电动汽车充电市场产生革命性影响。

Domestic car power enterprise of Shenzhen SHINRY technology has put forward the concept of "electrochemical" charging equipment, introduced 40 kw - 320 kw new energy automobile power charger, volume, weight, is one tenth of the traditional charger, including three

kinds modeling of wall-mounted, pull rod box type, trolley type, volume size is equal to the different specifications of the suitcase. Simplify the design of the function keys and display screen can be adjusted according to parameters. Allegedly charging efficiency can be reached to 98%. This or will have a revolutionary influence on electric vehicle charging market.

## 众泰 推电动汽车V10EV主攻物流行业

Zotye Has launched electric vehicle V10EV to compete with logistics industry



泰此次推出的V10EV车型属于7座商务乘用车，车身宽大，动力强劲，续航里程为130~150公里，主要应用于商务物流领域。目前这款车以租赁形式为主，用户可以以零租金的方式租用，每月保底价格是2000元，里程超出2000公里后，每公里以7毛钱的价格付使用费。

The launched V10EV model from Zotye belongs to the seven business passenger car, the body is wide, powerful driven, endurance driving range is 130 ~ 150 kilometers, mainly applied in the field of business logistics. Now this car is given priority to rent, users can rent it for zero

rent, guaranteed price is 2000 yuan per month, pay royalties for 7 cents per kilometer if drive for more than 2000 km,



## 比亚迪 在美发布超大电动汽车

BYD Has released large electric vehicle in the United States

比亚迪在美发布超大电动公共汽车，并以加州城市“兰卡斯特”命名。该车长达60英尺（约合18.29米），载客量达120人，可行驶170英里(约合273公里)以上。

兰卡斯特在最热的8月份测试了比亚迪电车，开足冷气并用5250磅(约合2381公斤)的沙袋充当载客量。

BYD has released large electric vehicle in the United States, and named it as "Lancaster" of the California city. The vehicle body length is up to 60 feet (18.29 meters), carrying 120 people, can be travelled for above 170 miles (273 km).

Lancaster has tested BYD electric vehicle in the hottest August, full air conditioning and 5250 pounds (2381 kilograms) of sandbags as the capacity.



## 中兴联手东风 启动首条无线充电大巴商用示范线

ZTE cooperate with Dongfeng To start the first wireless charging bus commercial model line

9月17日，中兴通讯携手东风汽车联袂打造的全球首例无线充电公交示范线在湖北襄阳启动。

现场还演示了车辆手动充电和自动充电过程。从现场的演示来看，大功率无线充电公交车在改造过的停车位停靠后就可以进行充电，无需人工插拔充电枪，完全不受泥沙和水浸的影响。同时，现场检测显示，无线充电设备辐射数据处于安全范畴，证明无线充电安全。

On September 17, ZTE has cooperated with Dongfeng motor together to build the world's first wireless charging bus and demonstrated in XiangYang of Hubei Province.

The site also illustrated the vehicle manual charging and automatic charging process. From the perspective of the scene demonstration, high power wireless charging bus can be charged after modified parking spots, no need manual insertion charging, not affected by sediment and water immersion. At the same time, the field test had shown that the wireless charging equipment radiation data in security category, proof the security of wireless charging.



## 富士康 向山西投资50亿发展电动汽车

Foxconn Has invested 5 billion to Shanxi to develop electric vehicles

鸿海集团董事长郭台铭在出席第二届晋商大会时表示，富士康将向山西投资超过50亿元人民币，用于发展电动汽车行业，向新能源转型。

鸿海集团在电动车领域布局多年，在汽车模具、线束、电池等领域已经取得成果。此前，鸿海集团一直为美国电动车制造商特斯拉供应零部件。

Hong hai Group chairman Guo Taiming has expressed in the second Shanxin Merchants conference Foxconn will investment more than RMB 5 billion to Shanxi, used in the development of the electric vehicle industry, to meet the new energy transformation.

Hong hai Group has layout the electric vehicle for many years, in the field of auto mould, wiring harness, battery, and other fields had made achievements. Previously, Hong hai Group has offered the components to America electric vehicle manufacturer Tesla.





## 山东 青岛首辆直充式双客门电动小型公交将开跑

Shandong Qingdao first direct charge two doors electric mini bus will run on the way



城阳907路公交车线路新增了一辆直充式双门电动小公交，车身只有8.5米，采用上客门、下客门双客门设计，驾驶区域与乘客之间设计了钢化玻璃门，24个乘客座位的设置，车厢也仍然感觉很宽敞。在电池方面，此车采用多元复合锂动力电池，一次充电可跑80——100公里，总重量1吨左右。充电桩和车一起刚好占一个公交车位。

Chengyang No.907 bus line has been added a direct charge small two-door electric bus, the car is only 8.5 meters length, adopted the two-doors design of get on and get off, the driving area has designed the toughened glass door with passengers, and 24 sets of passenger seat, still feel very spacious in the compartment. In terms of battery, the

vehicle using multivariate composite lithium power battery, it can run for 80-100 kilometers for one time charging, the total weight is about 1 ton. Charging pile and the car are just account for a bus station.

## 天津 新能源汽车9月预订超300辆

Tianjin has reserved more than 300 new energy vehicles September



新能源汽车利好政策频出，尤其是9月起开始实施新能源汽车免交购置税条令，在一定程度上助推了消费者的购车热情。天津市已预订出新能源汽车300多辆，有100多辆汽车已交付购车者。首批尝鲜者买的绝大多数是插电式混合动力汽车，其中，比亚迪秦占据主流。购车者年龄多在25岁—40岁之间，多为私营企业主与年轻前卫的上班族。

The good policy for New energy vehicles has been issued very often, especially has began to implement the exempt tax policy to purchase the new energy vehicle, in a certain extent, has helped the shopping enthusiasm of consumers. Tianjin has reserved more than 300 new

energy vehicles, there are more than 100 vehicles have been delivered to buyers. There most are the plug-in hybrid cars for the first group of buyers, among them, the BYD Qin occupies the mainstream. Buyers are most between the ages of 25 and 40, most of them are private business owners and the young vanguard office workers.

## 上海 购置电动汽车最高优惠17万元

Shanghai the highest discount to purchase the electric vehicle is 170000 yuan



购买新能源汽车免购置税政策实施后，上海首批获购置税减免的新能源车主诞生。9月17日上午，上海市嘉定区国家税务局安亭税务所开出3张荣威550 PLUG-IN插电式混合动力轿车免购置税凭证，这意味着新能源汽车免购置税政策正式在上海落地，从购置税、国家、地方、厂商、区县补贴相加，一台混合动力轿车的总优惠幅度达17万元。

After implemented the exempt tax policy to purchase the new energy vehicle, the first batch of Shanghai new energy vehicle owners have enjoyed the policy. In the morning of September 17, the State Tax

Bureau of Jiading district in Shanghai had delivered three pieces of tax exemption certificates for Roewe 550 plug-in hybrid sedan, which means that new energy vehicles purchasing tax free policy has formally landed IN Shanghai, subsidy from tax subsidies, state, local, vendors, and counties and regions, the total discount for a hybrid sedan is up to 170000 yuan.



## 安徽 合肥开出首张免税凭证明年新能源车超万辆

Anhui Hefei has offered the first tax exemption certificate the New energy vehicles will be over ten thousand cars next year

合肥自2014年9月1日至2017年12月31日，对获得许可在中国境内销售的纯电动汽车、插电式(含增程式)混合动力汽车、燃料电池汽车三类新能源汽车免征车辆购置税。

作为新能源汽车示范推广及私人购买补贴“双试点”的合肥市，到2015年，全市推广新能源汽车将超过10000辆。目前为9000多辆。

Hefei has got permission to make the tax exemption in China region for purchasing three models of new energy vehicles of pure electric vehicle, plug-in hybrid car(including EREV) and fuel cell electric vehicle since from September 1<sup>st</sup> to December 31th of 2017.

Hefei as the new energy vehicle demonstration promotion and private purchase subsidies "double pilot" city, by 2015, the promotion of new energy vehicles in the city will be more than 10000 vehicles. There are more than 9000 vehicles at the moment.



## 河北 出台电动汽车用电政策小区充电享居民电价

Hebei has issued the electricity utilization policy for electric vehicles, charging in the community can enjoy the residential electricity price

河北省物价局出台电动汽车用电价格政策，对向电网经营企业直接报装接电的经营性集中式充换电设施用电，执行大工业用电价格。居民家庭住宅、居民住宅小区、执行居民电价的非居民用户中设置的充电设施用电，执行居民用电价格中的合表用户电价；党政机关、企事业单位和社会公共停车场中设置的充电设施用电执行“一般工商业及其他”类用电价格。电动汽车充换电设施用电执行峰谷分时电价政策。

Hebei provincial Price Bureau has issued the electricity utilization policy for electric vehicles, directly reported the operating centralized in a electric charge in electrical power facilities to the network operation

enterprises, carried out the industrial electricity price. Residents in the family houses, residential area, to implement residential electricity to the non-resident users set charging infrastructure in the electricity, to implement the BHB electricity price for the residential cummunity; to implement general industry and commerce and other kind of electricity price for Party and government organs, enterprises and institutions and the social public parking charging infrastructures. To implement peak-valley time-of-use tariff policy for electric vehicle exchange charging facility.



## 北京 昌平首建设置WIFI的路灯充电桩

Beijing Changping has built the first WIFI street lamp charging pile

路灯杆旁加装充电桩，市民把电动汽车停在路边的停车位上就可以给爱车充电。昌平京密北路东段在建的路灯充电桩，采用慢充与快充结合的方式，8个慢充桩常规充电时间为4到6个小时，2个快充桩大约30分钟就可补电80%。这些充电桩白天、晚上都能充电，最大限度利用现有资源，解决征地难、开挖难、电力线路铺设难等问题。路灯充电桩还设置由电信运营商提供的WIFI热点，方便车主边充电边上网。

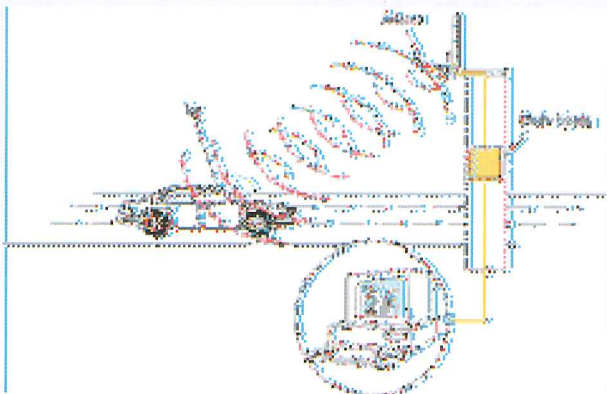
Equipped the charging piles near the street light poles, residents can park their electric vehicles near the roadside charging piles and can be charged for their vehicles. The eastern part of Jingmi North Road is building the charging piles of which have adopted the quick and slow charging method, the charging time of the 8 slow charging piles are from 4 to 6 hours, while the 2 quick charging piles can be reached up 80% of electricity for charging about 30 minutes. These charging piles can be charged whether in day or night, make the best use of existing resources, had solved the problems of land expropriation, excavation, such as power line laying difficulties. Street lamp charging posts also had provided the WII hotspot by the telecom, it is convenient for owners can surf the internet while charging the electric vehicles.





## 韩国 首尔建设用RFID辨识车主身分的充电站

South Korea, Seoul has built the charging station with the RFID to identify the car owners' ID



首尔市政府要与建商和大商场合作，设立RFID即时辨识车主身分、侦测充电电量；韩国电力则负责计算电动车车主在各地公寓和商场的用电费用。有了这些基础设施，一般停车场也能化身充电站，用RFID辨别车主，传输使用资讯到中央伺服器，解决用电量计费问题，方便车主在各地充电。

Seoul city government has cooperated with builders and shopping malls to build RFID to identify the car owners' ID and check the charging electricity just in time, South Korea Electronic is responsible for calculating the using electricity, with these basic infrastructures, the ordinary parking lot can regard as the charging station. Using RFID to identify the car owners' ID, send the using information details to the central server, solving the using

electricity problem and it is convenient to car owners to charge the electricity where they go.

## 美国 太阳能充电进驻布莱恩特公园

USA Solar charging station has entered into Bryant Park



位于曼哈顿42街五大道的布莱恩特公园新添加了两个太阳能充电站。每个充电站可以同时为六个电子设备充电，充电站还可以移动。阴天时，这些充电器也可以充电，但不如在晴天那样高效。通常，充电器在晴天会把50%的能量储存起来，供阴天时使用，一般可以连续在三个阴天工作。

手机、iPad，或照相机电量不足时，可以直接充电，为游客和行人带来了极大便利而深受欢迎。

Bryant Park which is located in Five avenue in 42 street of Manhattan, has added two solar charging stations. Every station can be charged for 6 electric vehicles at the same time. The charging stations also can move,

but they are not so effective as in sunny day. Usually, the charger will reserve 50% of electricity in the sunny days, in order to supply for the cloudy days, usually can be worked consecutive in three cloudy days. Mobile, iPad or lightening are lack of electricity, they can be charged directly, it is very convenient and popular for tourists and travelers.

## 冰岛 Even欲在首都周边建200个电动汽车充电站

Iceland Even want to build 200 electric vehicle charging station around the capital



Even公司计划未来几个月在冰岛高速路建造200座新的电动汽车充电站。

据冰岛政府制定的计划，到2020年，应有10%的汽车依赖可持续能源。但由于目前冰岛充电站数量较少，且大多分布在大都市。

Even company has planed to build 200 new electric vehicle charging station in highway of Iceland in the future several months. According to the plan formulated by Iceland government, by 2020, 10% of cars will rely on sustainable energy. But due to a few charging stations in Iceland, and most of the stations are distributed in the big cites.



## 美国 底特律电气将推最快量产纯电动轿车SP:01

USA Detroit Electronic will promote the fastest bulk production pure electric vehicle SP:01

近日，美国底特律电气公司（Detroit Electric）宣布，明年将量产SP:01电动跑车，该车将成为速度最高的批量生产纯电动轿车。

从2015年开始投放到亚洲、欧洲和北美市场。

据称，SP:01采用了优化的外形、轻量化技术和强劲的电池组，车辆极速高达155英里/时（249公里/时），从静止加速至60英里/时（96公里/时）只需3.7秒。

Recently, America Detroit Electronic has announced that they will put into bulk production of SP:01 electric vehicle next year. The car will be the highest speed bulk production electric vehicle. It will be put into operation in Asia, Europe and South America market from 2015. As reported, SP:01 adopts the optimized shape, lightweight technology and strong battery pack, the top speed of the vehicle can reach to 155 miles/h (249 km/h), the accelerate time from 0 to 60 miles/h (96 km/h) only need 3.7 seconds.



## 荷兰 阿姆斯特丹机场提供百余辆特斯拉电动车租赁

Netherlands Amsterdam airport has provided hundreds Tesla electric vehicle rental service

特斯拉宣布与荷兰当地租车公司合作，提供阿姆斯特丹 Schiphol 机场旅客 Model S 租车方案。

这次由荷兰 BBF Schiphol taxi 与 BIOS-groep 两大租车公司通力合作，一口气导入167辆特斯拉 Model S 加入汽车租赁，以首都阿姆斯特丹主要机场史基浦（Schiphol）国际机场作为出租据点，锁定国际旅客与国内高端客群，也替低碳城市计划尽一份心力

Tesla company has announced to cooperated with the local car company in Netherlands, Providing Amsterdam Schiphol airport passenger model S rental scheme

This scheme is provided by Netherlands BBF Schiphol taxi and BIOS-groep these two big taxi rental companies, of which had introduced 167 Tesla Model S for rental service. Set the main airport Schiphol International Airport as the rental spot in Amsterdam capital, aim at the high-end customers of international and domestic, also has done a favor to low carbon urban city plan.



## 美国 乔州电力投1200万美元促电动汽车销售

USA Qiaozhou will invest \$12 million to promote the sales of electric vehicles

自2015年起，乔州电力公司将为新房和二手房住宅的用户提供250美元的信用，用以在住宅内安装240伏2级电动汽车充电器。2级充电器每小时充电量可提供约29英里的行驶距离。

同样，乔州电力将为商业大厦业主提供500美元及250美元的信用来安装2级和1级（110伏）充电器。1级充电器每小时充电可提供大约4英里行驶，比较适合可以整晚或全天充电的用户。

From 2015, Qiaozhou electronic company will provide \$250 credit for the new and second housing residents to install 240 V of Level 2 electric vehicle charger in the house. The full electricity of level 2 charger can make the car to drive for 29 miles. Meanwhile, Qiaozhou Electronic will provide \$500 and \$250 credit for commercial building owners to install level 1 and level 2 chargers. The full electricity of level 1 can make the car to drive for 4 miles per hour, it is quite suitable for users to be charged in day and night

