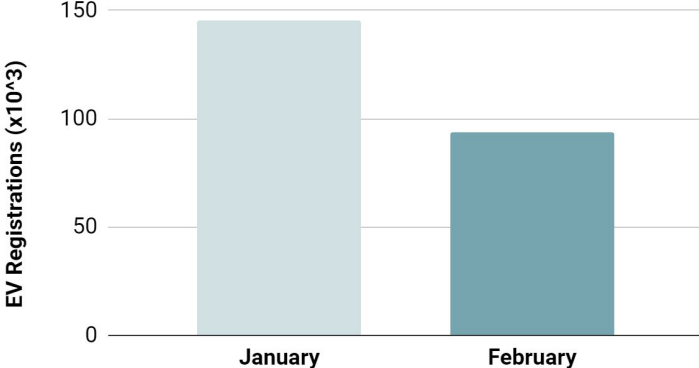
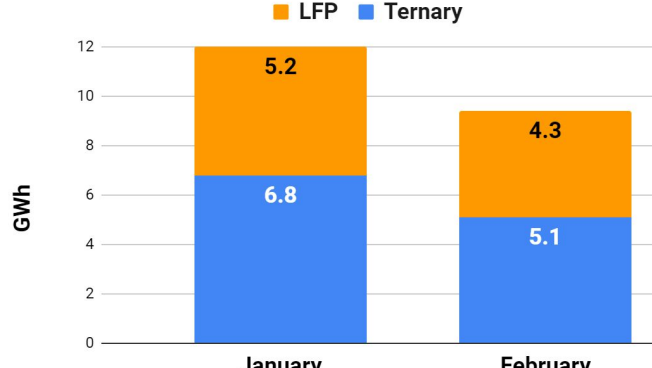


# China EV, Battery and Energy Storage headlines from March 2021

New Energy Vehicles Insurance Registrations (2021)



EV Battery Production (2021)



## Raw Materials & Battery Chemicals



Shantouyang Tech (JV) **artificial graphite** project



Sichuan production expansion **artificial graphite & separators**



Yichun Mining (JV) project produce > **120 ktpa / Li<sub>2</sub>CO<sub>3</sub>**



EVE agree on **LiFePO<sub>4</sub>** production (100 ktpa)



New patent "Method for Extracting Lithium from Salt Lake" CN112538575A

## Cell Manufacturing



Begins 1<sup>st</sup> phase Fuding (**60GWh**) & Zhaoqing (**25GWh**) increases total capacity under construction ~**300GWh**



**56GWh** battery factory in Meishan



**20GWh** battery base in Inner Mongolia



**42GWh** battery plant in Guangzhou



EV prismatic **LFP** battery factory

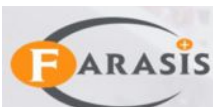


Qingshan & REPT-**30GWh** in Nanhai



Starts construction in Sichuan **20GWh**

## Battery Technology



Silicon Anode & Carbon nanotube

**330+ Wh/kg**  
Gravimetric Energy density

**1,500+**  
Cycles with 100% DoD

**750+ Wh/l**  
Volumetric Energy density

**~90%**  
Capacity at -20°C



Unveiled 1<sup>st</sup> pouch cell with potential **10GWh** production capacity. June 1<sup>st</sup> market introduction of cobalt-free cells.



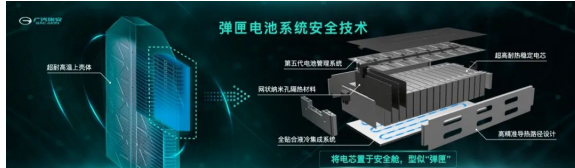
Introduce 25Ah tabless 4680 cell



90Ah NCM811 pouch battery (300Wh/kg)



Introduce the ultra safe ternary Li-ion **Magazine** a battery system. Already in use in GAC Aion Y ↓↓↓



## Electric Vehicle



Agree to procure & supply **pouch cells**



Xiaopeng P7 available in **LiFePO<sub>4</sub>**



Entering "smart EV business" **BYD** to build a car?



Considering **BYD blade** for China EV's



"Catalog of Recommended Models for the Promotion and Application of New Energy Vehicles" (2021). Includes **136 new energy models**.

An annual highlight is the increase in battery pack energy density.  
**Guoxuan Hi-Tech** ( 200.22Wh/kg in the **BJ700USD8-BEV SKI** ( 194.12 Wh/kg ) in the **ARCFOX**  
**CATL** ( 190.1Wh/kg ) in the **BAIC EX3**.  
**JEVE** ( 176 Wh/kg ) in the **ORA R1**.  
**Farasis** ( 170 Wh/kg ) in the **GAC Aion LX**.

## RECALL ALERT

Jan-Mar 83,800 new energy vehicles from 5 automakers



recalled **32k** of EX360 and EU400 pure EV's



recalled **36,100** Model S and Model X EV's