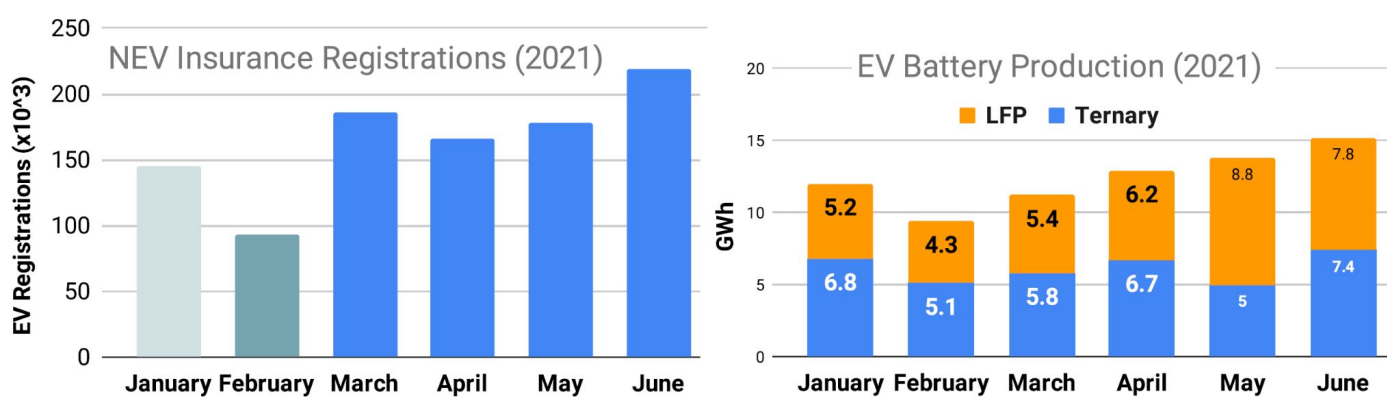


# China EV, Battery and Energy Storage headlines July 2021



## Raw Materials & Battery Chemicals

**Lithium battery raw materials Ave-spot prices**  
 99.5% Li<sub>2</sub>CO<sub>3</sub> June 29 (89.0k RMB/ton)  
 56.5% LiOH·H<sub>2</sub>O June 22 (100.0k RMB/ton)  
 LiPF<sub>6</sub> 330-370k RMB/ton  
 LiFePO<sub>4</sub> (EV) 50k RMB/ton  
 LiFePO<sub>4</sub> (ESS) 40k RMB/ton  
 Graphite (Natural/Synthetic) 55.5/67.5k RMB/ton



Hunan Yuneng select **Fuquan City** to invest 17 billion RMB in the construction of iron phosphate & lithium iron phosphate 300kt/yr plants



Announce construction of 6 billion RMB **100kt/yr** ternary precursor & **50kt/yr** ternary cathode material plants in (**Guangxi**)

**Dynanonic**

(**Qijing**) one billion RMB investment in a **40kt/yr** nano-lithium iron phosphate project goes into production.



Select **Ulanqab**, Inner Mongolia as the production site for a **50kt/yr** flake graphite processing plant.



(**Guangdong**) Invest 3.8 Billion RMB in a **4 million m<sup>2</sup>** separator production plant expected to come online in 2026. Additional 1.4 billion RMB investment to establish **automated** battery production equipment company.



(**Qinhai**) Acquire a 28% stake in Jin Kunlun Lithium & invest 1.8 billion RMB yuan to build 30kt/yr Li<sub>2</sub>CO<sub>3</sub> & LiOH plant.



Invest **5.15 billion** RMB in electrolyte & additive production.

1. **100kt/yr** lithium hexafluorophosphate (LiPF<sub>6</sub>)
2. **40kt/yr** of lithium bisfluorosulfonimide (LiFSI)
3. **10kt/yr** of difluorophosphoric acid (LiPO<sub>2</sub>F<sub>2</sub>)



Shantou Wanshun invested **1.2 billion** RMB to expand cathode aluminum foil production to **80kt /yr**



(**Hubei**) Longbai Group to build a **100kt/yr** iron phosphate precursor plant.



**Xintai** to supply **GTHR** with 12kt of (LiPF<sub>6</sub>) from July 2021 to June 2023.



Ternary precursor manufacturer **Fangyuan** enjoys successful IPO. Annual production of **50kt** of (NCA, NCM) precursors & **10kt** lithium hydroxide.



(**Lujiang**) Guoxuan announce investment in the construction of massive a **200kt/yr** cathode plant.



LG will purchase an 55kt of electrolyte from Tinci up until the end of 2023

## Cell Manufacturing



(**Hubei**) **2.45 billion** RMB investment in **four** major construction projects.

1. **3GWh** cylindrical LFP & **0.7GWh** cylindrical ternary.
2. **3GWh** prismatic LFP
3. **4GWh** ternary prismatic
4. **1.5GWh** ternary pouch



(**Hefei**) **2.45 billion** RMB investment in **four** major construction projects.

1. **3GWh** cylindrical LFP & **0.7GWh** cylindrical ternary.
2. **3GWh** prismatic LFP
3. **4GWh** ternary prismatic
4. **1.5GWh** ternary pouch



(**36kt**) **FARASIS** will source high Nickel ternary cathode material from **RONBAY**



(**36kt**) **SHANSHAN** agree to supply **FARASIS** in **3.9kt** (2021) & **21.5kt** (2022) of graphite



Agree to acquire **Bosch Group's** factory in **Göttingen**, to establish Guoxuan first european production base.

## Battery Technology



**SVOLT's** cobalt-free **single crystal NMX** batteries ready for mass production

(**240wh/kg**, 3000 cycles, 115Ah-MEB).

**Safety**- Certified GB/IEC62660/UL2580/UN38.3

Passed the **150°C hot box test** & **140% SOC** overcharge test



**赣锋电池 DONGFENG**

**Gangfeng Lithium** to expand **solid state battery** production to **1GWh** by the end of 2021 in conjunction **Dongfeng** technology center



**CATL** break ground on **300MW/600MWh** (**Datong**) state grid energy storage project.



Sued by



for patent infringement



### 1st Gen- Sodium-ion battery

- 160 Wh/kg
- 15 min to 80% charge at room temperature
- 90% charge retention at -20°C
- 80% system integration efficiency 80%.
- Thermal stability exceed safety requirements of national standards.

## Electric Vehicle



**东风风行 FORTHING EVE 亿纬锂能**

**EVE Energy** selected as the battery pack supplier for **Dongfeng Liuqi's M6PHEV**



**国轩高科 GOTION HIGH-TECH**



(**Hefei**) **Gotion** to produce **VW's** first standard batteries at **20GWh** production base