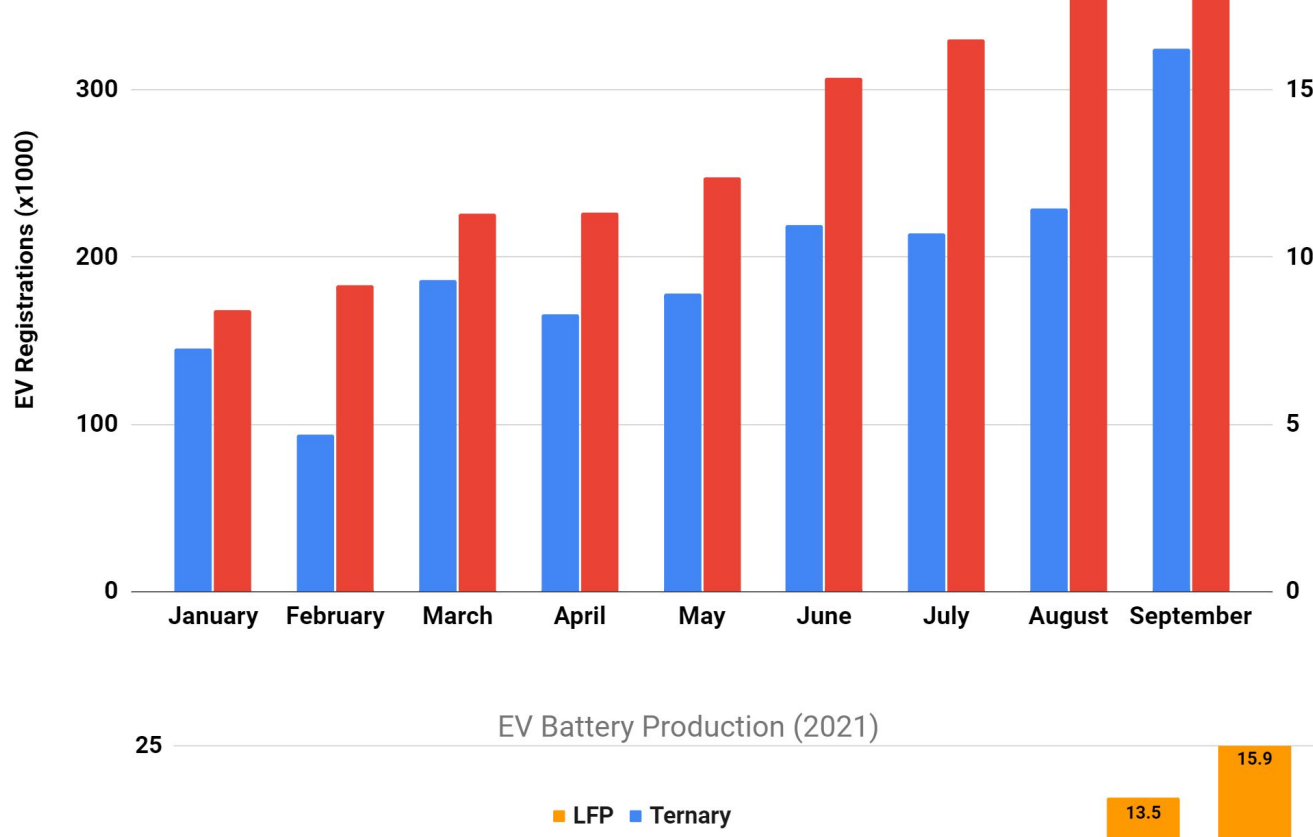
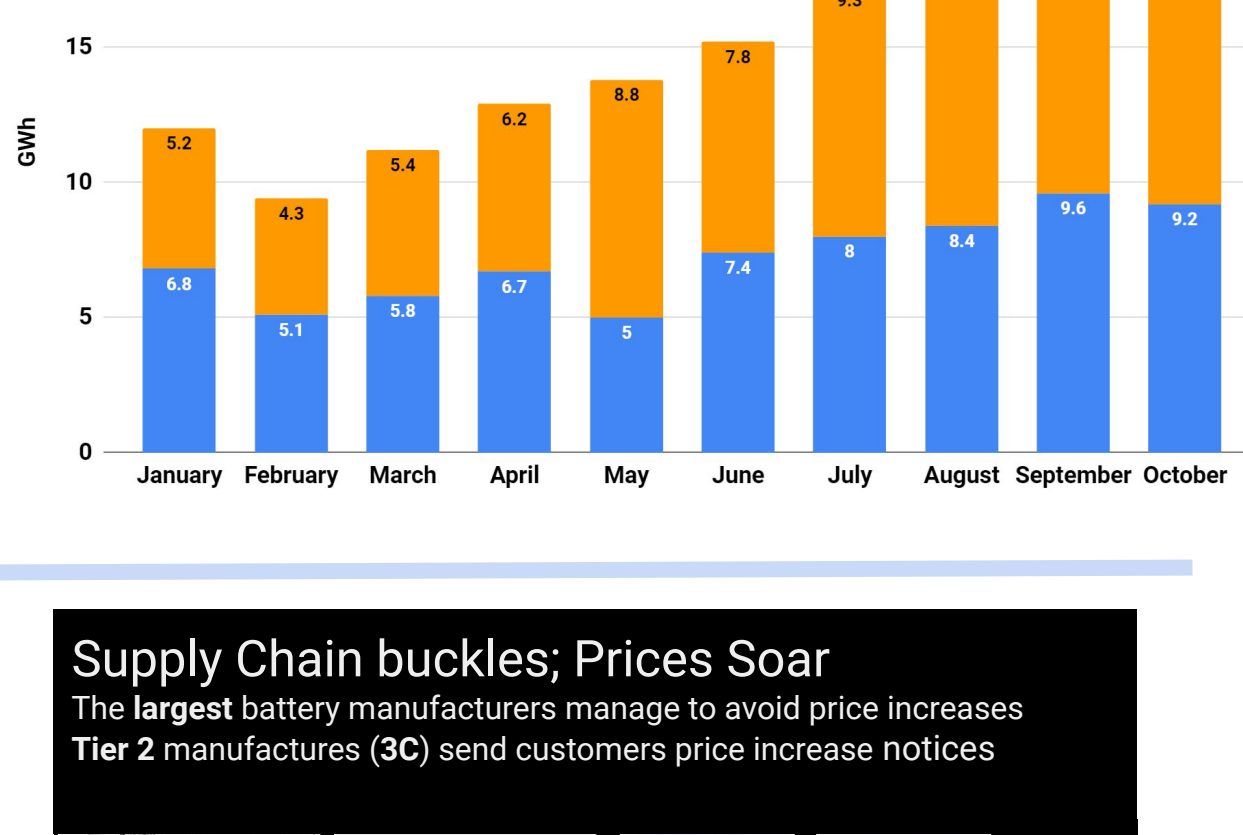


China EV Battery Headlines October 2021

NEV Insurance Registrations (2021)

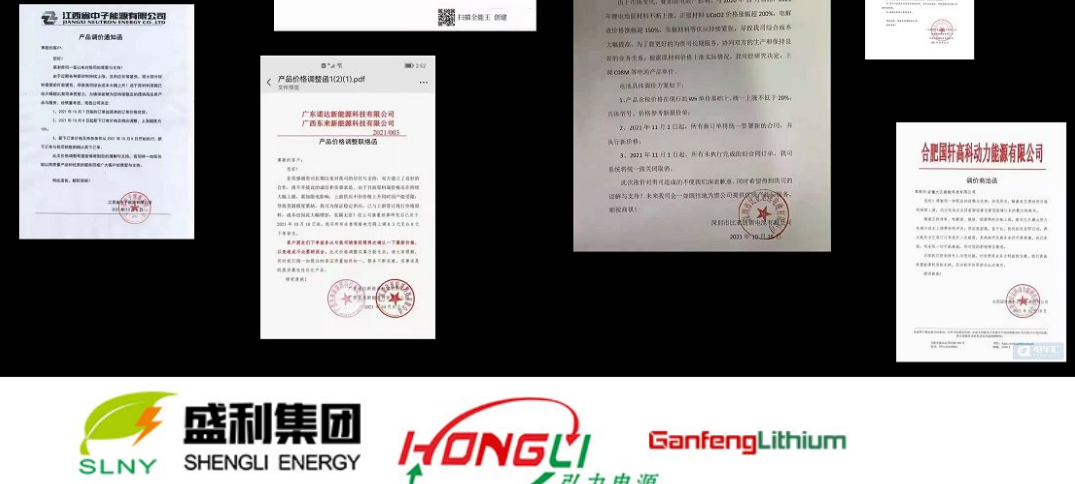


EV Battery Production (2021)



Supply Chain buckles; Prices Soar

The largest battery manufacturers manage to avoid price increases
Tier 2 manufactures (3C) send customers price increase notices



Raw Materials & Battery Chemicals

Battery raw materials- NOV 1 ave spot prices

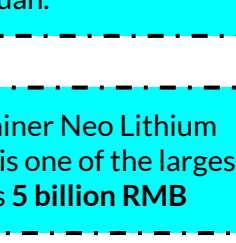
99.5% Li ₂ CO ₃	195k RMB/ton
56.5% LiOH.H ₂ O	195k RMB/ton
Spodumene 6% CIF China	1365 USD/ton
Precursors (523,622,811)	131,141,146k RMB/ton
CAM (523,622,811)	223.5,236.5,257k RMB/ton
LiFePO ₄ (EV)	88k RMB/ton
LiFePO ₄ (ESS)	82k RMB/ton
Graphite (Natural/Synthetic)	55.5/70k RMB/ton
LiPF ₆	570k RMB/ton
PVDF- Battery Grade	400k RMB/ton

Dynanonic

(Qijing) Invest 3.5 billion RMB to build a lithium project (25 kt/yr)

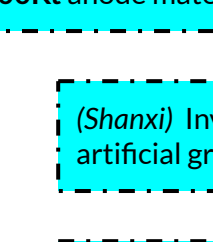


Signs 500 million Lithium supply contract with.



CONCH VENTURE

(Guangzhou) Construction of 500K/yr of LiFePO₄
Phase 1: 50,000 tons 1 billion yuan.



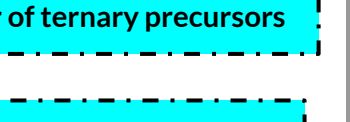
Acquire Canadian lithium miner Neo Lithium
3Q lithium salt lake project is one of the largest and highest-quality projects 5 billion RMB



(Xintao) to build a lithium battery 400k cathode material manufacturing base.
Phase 1+2: 200k 2025



Agree 100kt anode materials JV with Zhongke



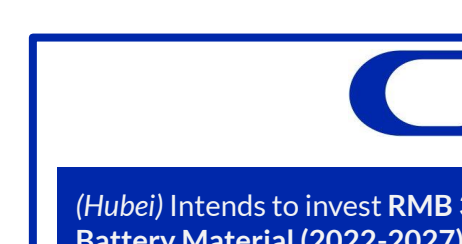
(Shanxi) Invested 1.8 billion RMB to build a 70kt artificial graphite. Phase 1: 40k tons/ 12 months.



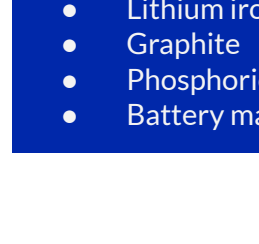
(Guizhou) Started construction of the 150kt/ 3 billion RMB anode material project



Agree supply agreement supply approximately 5,000-15,000 tons/year of cobalt tetroxide and 15,000-35,000 tons/year of ternary precursors



GEM lock in 800kt order from ECOPRO.
176kt of NCA & NCM precursors (2021-2023)
650kt NCA & NCM precursors (2024 to 2026)



(Wuhu) Invests 700 million RMB in 2 wet separator production lines (200 million m²)



(Zhejiang) Invest 1.5 billion RMB
Construction of 25kt electrolyte salt plant
LiPF₆ & LiFSI Lithium bis(fluorosulfonyl)imide
Phase 1 + 2 + 3) (6k,9k,10k) (

ALBEMARLE®

(Meishan, China)

- Albemarle/China \$500 million investment, 50kt of lithium hydroxide plant
- Largest foreign direct investment in the region this year.
- Will be China's largest LiOH producer upon completion.

CATL

(Hubei) Intends to invest RMB 32 billion in the construction of a comprehensive Battery Material (2022-2027). The suite of materials include

- Lithium iron phosphate & ternary precursors,
- Lithium iron phosphate, lithium cobalt oxide, ternary cathode materials
- Graphite
- Phosphoric acid
- Battery material recycling.

Acquires

MILLENNIAL LITHIUM

Cell Manufacturing

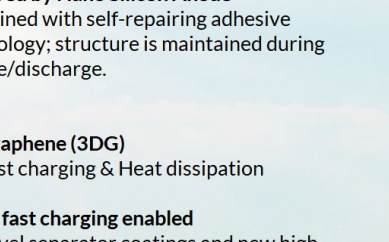
January to November battery output totaled 159.8 GWh



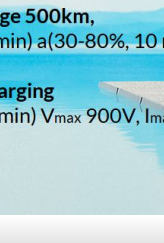
Invests



(Changzhou) Construction of 40 GWh EVB plant in two phases.
(Yancheng) Construction of 22 GWh EVB plant in two phases.
(Total announced >200GWh)



(Qinhuangdao) Automotive supplier announce 10GWh lithium battery plant(NEV & ESS)
Phase 1: 2GWh, 12 months, 800 million RMB



(Chengdu) announce 50GWh lithium battery plant

Battery Technology

Highest Range Available on the Market up to 1008km (205Wh/kg)

Powered by Nano Silicon Anode Combined with self-repairing adhesive technology; structure is maintained during charge/discharge.

3D Graphene (3DG) for fast charging & Heat dissipation

Super fast charging enabled by novel separator coatings and new high-power electrolytes

3C fast charge 500km, (0-80%, 16 min) at 30-80% (10 min)

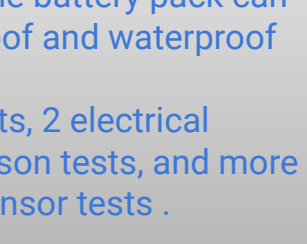
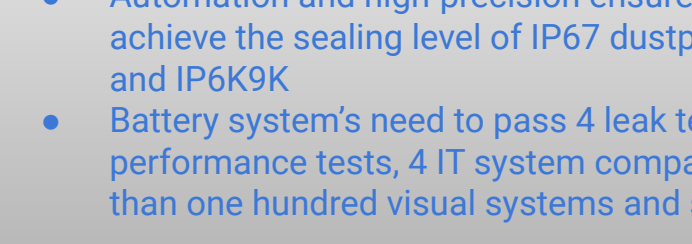
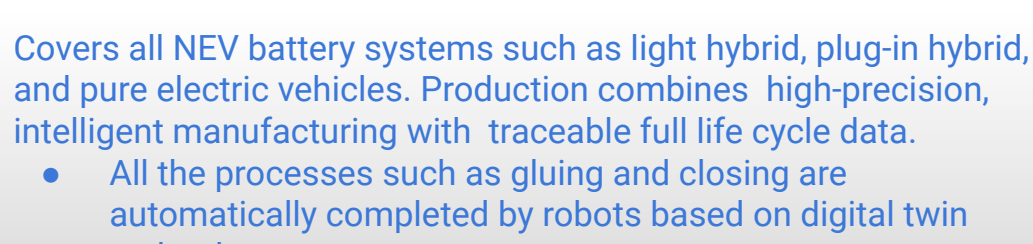
6C super charging (0-80%, 16 min) Vmax 900V, Imax 500A

AION LX

优越生活全体验

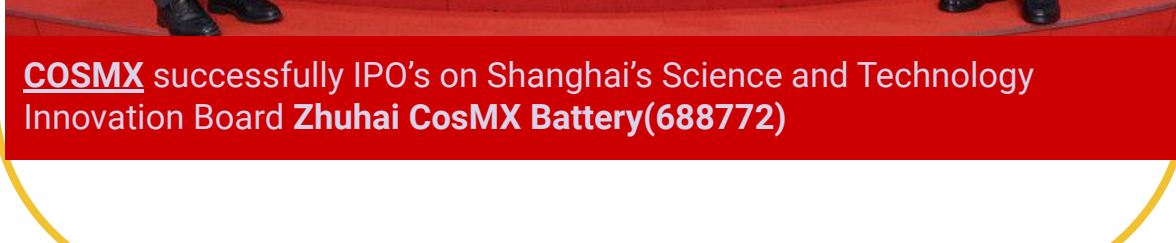
AION LX尊享电池租赁计划
下订立减10万, 首付最低2.2万*

SAIC General Motors Ultium Battery System



Covers all NEV battery systems such as light hybrid, plug-in hybrid, and pure electric vehicles. Production combines high-precision, intelligent manufacturing with traceable full life cycle data.

- All the processes such as gluing and closing are automatically completed by robots based on digital twin technology
- Automation and high-precision ensure the battery pack can achieve the sealing level of IP67 dustproof and waterproof and IP6K9K
- Battery system's need to pass 4 leak tests, 2 electrical performance tests, 4 IT system comparison tests, and more than one hundred visual systems and sensor tests.



COSMX

COSMX successfully IPO's on Shanghai's Science and Technology Innovation Board Zhuhai CosMX Battery(688772)