Lithium-ion battery technology beijing

Lithium-ion battery technology beijing

Driven by robust new energy vehicle demand, China"s power battery industry has seen growing sales and production, with emerging technologies expected to accelerate its high-quality development, officials noted.

Power batteries serve as the core component of NEVs and are the main driver in automotive electrification. With government support, China leads in both the quality and quantity of batteries, said Guo Shougang, deputy director of the equipment industry department at the Ministry of Industry and Information Technology.

Guo made the remarks at a conference held by the China Automotive Battery Innovation Alliance on Thursday in Beijing.

The data of the battery alliance show that China"s battery installation reached 387 gigawatt-hours in 2023, accounting for more than half of the global total. CATL, BYD and CALB were the top three providers.

From January to April, the installed capacity of power batteries reached 120.6 GWh, a year-on-year growth of 32.6 percent.

The alliance predicts that China"s NEV industry will continue to grow in 2024, with production expected to reach 10.83 million units, a year-on-year increase of 31.9 percent. Power battery installation is forecast to reach 527 GWh this year, up 35.9 percent year-on-year.

A key reason for the achievements of China"s power battery industry is its pursuit of two technological paths; simultaneously developing lithium iron phosphate, or LFP batteries, and ternary lithium batteries. China is the only country in the world to establish this dual-track approach, said Xu Yanhua, secretary-general of the battery alliance.

The installation of LFP batteries reached 79.8 GWh in the first four months, up 28.6 percent year-on-year, accounting for 66.1 percent of the total. Meanwhile, ternary battery installations reached 40.8 GWh, with a year-on-year growth of 41.2 percent, representing 33.8 percent of the total.

The rising energy density of LFP batteries highlights their advantages in cost and safety, leading to an increase in market share in recent years. At the Beijing auto show in April, Chinese battery giant CATL unveiled its latest LFP battery, Shenxing Plus, which is able to power 1,000 kilometers on one full charge or 600 km after a 10-minute charge.

Battery providers have also developed new technologies to power NEVs. Fully solid-state batteries are widely acknowledged as the preferred solution and represent a crucial advantage in the competition for next-generation battery technologies, said Ouyang Minggao, an academician of the Chinese Academy of

Sciences.

The solid-state electrolytes offer benefits like increased battery energy density, enhanced safety and extended battery life.

Chinese battery provider Gotion High-Tech unveiled its all-solidstate battery in mid-May, aiming for small-scale production by 2027 and mass production by 2030.

Contact us for free full report

Web: https://www.kary.com.pl/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346