

Russia battery research and development

Head of the Group - Nina Vasil"evna Kosova, Ph.D.

Every year students and graduate students of the Novosibirsk State University and the Novosibirsk State Technical University have internships and carry out course and diploma work in the Group.

+7 495772-95-90, ext.27661

Emergency hotline: +7 (985) 040-13-55

+7 495772-95-90, ext. 12669

The digest includes a general news agenda, expert interviews on the prospects of electric vehicles and battery technology, an analytical overview of the current state and future prospects of the industry in Russia and worldwide, an overview of domestic market players, and a Tesla case study.

One of the most notable and important technological transformations is taking place in the global automotive industry. Electric cars, which only a couple of decades ago looked like fashionable toys, are becoming both an environmentally friendly and economically attractive means of transport.

Recent sanctions and the withdrawal of foreign carmakers from the Russian market present a dilemma for the country: should Russia try to catch up with the rest of the world by establishing full-fledged production of traditional internal combustion engine cars despite their growing lack of relevancy, or should it make the leap and jump on the 'electric car' bandwagon?

Understanding how this dilemma is resolved today, evaluating how electric vehicles have already penetrated the economy, and identifying the main vectors of its further development are the main objectives of this issue.

Conclusions and observations:

Electric cars are often seen as a greener technology and a step towards a zero-CO2 economy. This is one side of the coin. The other side is the development of unmanned vehicles, which naturally will be powered by electricity. On top of these two trends is the economics of electric cars, which is becoming increasingly competitive. Along with the development of technology, changes are also occurring in the concept of urban traffic organisation, the approach to the production process, and inter-industry synergy (including through recycling).

Whatever happens, electric vehicles continue to evolve: the growth rate of electric vehicle sales increased both

during the COVID-19 pandemic and during the crisis events of 2022. In Russia, sales of new electric cars grew by 34% in the first 10 months of 2022, while overall sales of new passenger cars and light commercial vehicles fell by more than 60%.

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Web: <https://www.kary.com.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

