

Does Russia have a solar power industry?

It should be noted that solar power engineering has begun to develop actively in the Russian Federation, but mainly imported converter equipment is used there. The global wind power industry has basically formed, and there are no major transformations in it.

What is the market of inverters for electric vehicles in Russia?

Market of Inverters for Electric Vehicles in Russia competencies in advanced technical and technological approaches, working out technical solutions and obtaining a product with known characteristics at specific prices. Then, it is necessary to monetize this approach and hone the competencies in the development and production of our own chips.

Is there a full-cycle production facility in Russia?

In Russia, there are full-cycle production facilities for traditional power semiconductors, such as power thyristors and diodes, but the production of IGBT devices, as well as devices based on silicon carbide, is only being formed.

Where is the Russian microelectronics market located?

JSC NTC "Privodnaya Tekhnika," Chelyabinsk, Russia. Russian developers and manufacturers in this market are currently represented in a limited way, mainly due to a small range of local power semiconductors and low technical parameters of Russian microelectronic components, the specifics of their programming and high cost.

Why are advanced devices made in Russia based on foreign chips?

The assembly of advanced devices in Russia is based on foreign chips, since there are no corresponding analogues in the country, despite repeated attempts to master production. The solution of issues on IGBT and SiC chips in the country is limited by several factors.

Is there a need for a converter in Russia?

In Russia, a number of companies also create electric vehicles, electric buses and infrastructure for their charging, but, unfortunately, imported converter equipment is used everywhere and there is no tendency to form teams for research and development of domestic technical solutions.

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Major global trends in the development of converter equipment are assessed through the scope of priorities for technological development of the Russia's energy sector. The main areas of application are analysed and the local inverter market is investigated, specifically in electric transport, solar and wind power generation, distributed smart ...

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