

Nanocrystalline Soft Magnetic Material Industry Analysis in Eastern Europe are Expected to Reach US\$ 1.45 Bn by 2034

Eastern Europe's NCSMM market grows with renewable energy investments, industrial expansion in electronics, power distribution, and automotive sectors.

ROCKVILLE, MD , MD, UNITED STATES, February 13, 2025 /EINPresswire.com/ -- A recently published Fact.MR market research report reveals that sales of [nanocrystalline soft magnetic materials in Eastern Europe](#) are estimated at US \$ 654.6 million by 2024 . The demand for NCSMM in the region is expected to increase at a CAGR of 8.3 % , reaching an estimated market value of US \$ 1.45 billion by the end of 2034 .



Eastern European countries are investing in various renewable energy projects , such as solar and wind power . Nanocrystalline soft magnetic materials are essential for the efficient operation of transformers, generators and inverters used in these renewable energy projects. Additionally, significant industrial growth, particularly in areas such as electronics, power distribution and automotive, is expected to drive the use of nanocrystalline soft magnetic materials (NCSMMs) in sensors, electric motors and other electronic devices.

The nanocrystalline soft magnetic material (NCSMM) market in Eastern Europe is experiencing significant growth, driven by increasing demand across consumer electronics, automotive, healthcare, and power distribution sectors. With the rising focus on energy efficiency, industries are adopting NCSMM for its high permeability, low energy loss, and superior magnetic properties in applications such as transformers, inductors, and motors.

Countries like Russia and Poland are leading the market expansion, with Russia projected to grow at an 8.2% CAGR and Poland at a strong 10.2% CAGR through 2034. The market is also benefiting from infrastructure modernization, electrification, and the shift toward renewable

energy, further fueling NCSMM demand in power transmission and distribution systems. As industries seek more reliable and efficient materials, NCSMM adoption is expected to surge across Eastern Europe in the coming years.

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Key Takeaways from the Market Study:

Eastern Europe's nanocrystalline soft magnetic material (NCSMM) market is projected to grow from US\$654.6 million in 2024 to US\$1.45 billion by 2034, at an 8.3% CAGR.

Russia is expected to lead the region with NCSMM sales reaching US\$319.3 million in 2024.

Poland's NCSMM demand is anticipated to grow at a 10.2% CAGR from 2024 to 2034.

Two-dimensional NCSMM demand is forecasted to experience a 10.1% CAGR during the same period.

The consumer electronics sector is expected to account for over 39% of the NCSMM market share in 2024.

Leading Players Driving Innovation in the Nanocrystalline Soft Magnetic Material Industry Analysis in Eastern Europe:

Magneton; AAT Holding; Berkut Inc.; Elkasan

Country-wise Insights:

Russia is expected to emphasize energy efficiency initiatives, driving the demand for nanocrystalline soft magnetic materials (NCSMM). With a market value of US\$ 319.3 million in 2024 and a projected growth rate of 8.2% CAGR, the market is anticipated to reach US\$ 702 million by 2034.

These materials offer enhanced magnetic properties, such as higher permeability and lower hysteresis losses, making them ideal for critical applications like inductors, transformers, and motors. As Russia focuses on optimizing energy transmission and conversion systems, the adoption of NCSMM in various industries is set to expand significantly.

Poland's focus on modernizing infrastructure is driving the demand for nanocrystalline soft magnetic materials (NCSMM), as the need for reliable and efficient components continues to grow. With a market value of US\$ 157.1 million in 2024 and a strong growth rate of 10.2% CAGR, the market is expected to reach US\$ 415 million by 2034.

NCSMM enhances the reliability and performance of critical electrical components such as inductors, transformers, and other power equipment, making them essential for infrastructure upgrades. As Poland advances its energy and industrial sectors, the adoption of NCSMM is set to

rise significantly.

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More Valuable Insights on Offer:

Fact.MR, in its new offering, presents an unbiased analysis of the Nanocrystalline Soft Magnetic Material Industry Analysis in Eastern Europe, presenting historical data for 2021 to 2023 and forecast statistics for 2024 to 2034.

The study reveals essential insights based on the The nanocrystalline soft magnetic material (NCSMM) market in Eastern Europe is segmented based on classification, application, end-use industry, and country.

By classification, NCSMM is categorized into one-dimensional, two-dimensional, and three-dimensional materials. Key applications include transformers (portable, transmission, and distribution), motors (ranging from 1hp to above 1000hp), inductors, and generators. The market serves diverse industries such as consumer electronics, healthcare, automotive, and semiconductors. Geographically, the market is segmented into Russia, Poland, and the rest of Eastern Europe, with significant growth expected across all regions due to increasing demand for efficient energy solutions and modernized infrastructure.

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Increasing at a CAGR of 10.2%, the global [nanocrystalline soft magnetic material market](#) size is forecasted to jump from US\$ 7.79 billion in 2024 to US\$ 20.58 billion by 2034. Nanocrystalline soft magnetic materials are exhibiting increasing usage in the automobile industry.

The [soft magnetic material market size](#) reached US\$ 63.42 billion in 2024. Over the forecast period, soft magnetic material demand is anticipated to rise at a 7.8% CAGR. Total market value is predicted to increase from US\$ 134.40 billion by 2034.

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assist companies in navigating dynamic market challenges with confidence and achieving long-term success. With a global presence and a team of experienced analysts, FACT.MR ensures its clients receive actionable insights to capitalize on emerging opportunities and stay ahead in the competitive landscape.

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