



2020 Market Analysis of Advanced Materials and Nano Science Conference

Conference Announcement

Materials and Nano Technology are growing and expanding their borders of technology in almost all the countries. Today all skilled work and materials are done by Nano Science and is being implemented with Nano Technology.

Czech Republic is quickly adopting Nano technology and expecting to have growth in international market. Industrial Nano market size is expected to from USD 48.7 billion in 2019 and is projected to reach USD 75.6 billion by 2024. Automation Nano Science market is expected to grow at an annual rate of 9% between 2019 and 2024.

The number of Nano Technology based objects in Czech Republic is increased by 6% in 2018 and there are already Nano Tech based hardware per 1,000 workers in the Czech Republic economy.

48% of Advanced Materials and Nano Technology operate in automobile industries which makes Czech Republic ninth biggest producer in the world in view of Nano Technology. Also, Czech Republic is currently in a process of expansion selling 3,900 Nano Technology based products and Materials abroad in 2018.

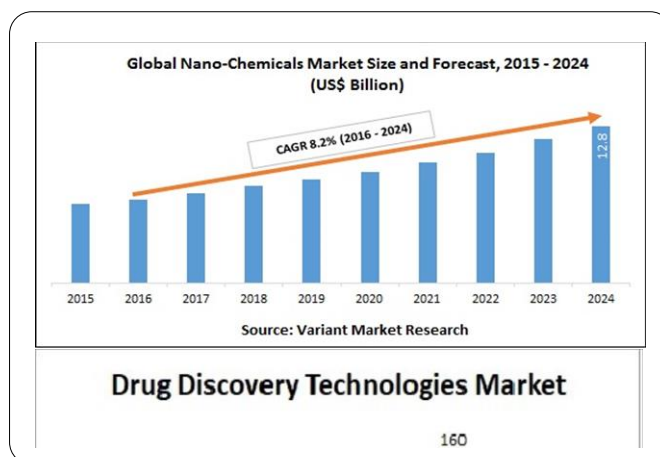
Every year an increase of 14.97% in Nano Science market makes country world's largest market for industrial Nano world.

Tremendous development of main users industries such as automobile, high end equipment manufacturing and electronic and electrical appliances has boosted the sales of industrial Nano Technology.

In 2018, global market for Advanced Materials and Nano Technology was USD 38.1 billion. But according to growing demand of Nano Technology in Czech Republic, its market value will touch USD 64 billion by 2023 with annual growth rate of 10.9%.

In field of education, Nano Science market is expected to be valued at USD 778.6 Million in 2018 and is projected to reach USD 1,689.2 Million by 2023 and with an annual rate of 16.8% between 2018 and 2023. The market is mainly driven by factors such as use of Nano Materials for educational purposes and technological advancements in field of Nano Technology. Nano Technology fields have a unique growth in the market especially in Czech Republic and its neighboring countries.

Advanced Materials and Nano Science Technology sales increased by 30% to 381,335 units, a new peak for fifth year in a row. Nano Science sales in automotive industries increased by 22% and remained still the major customer of industrial Nano Technology and Materials with a share of 33% of the total supply in 2017. Electrical and electronics industries have been catching up. In 2019, it reached almost



to almost 66,300 units and an annual average increase rate of 10% between 2012 and 2018.

In 2017, number of Nano Particles sold increased by 7% to 21,404 units – a new peak – compared to 2016 (20,074 units). Between 2014 and 2016, annual sales of industrial Nano Science stagnated at around 20,000 units.

Advanced Materials and Nano Science investments increased by 19% to a new record of 7,700 units. The Nano Science market was up by 16% to a new peak level of about 4,900 units. Sales of industrial Nano fields and Advanced Materials further increased to a new peak of 4,200 units.

The New York Times report of 2012 revealed the growth of nanotechnology over the past decade in Czech Republic with several applications available in the market covering several fields including electronics, biotechnology, engineering, medicine, power generation and many more.

Czech Academy of sciences has 37 Universities Faculties and Nine state funded research organizations who are conducting research in many areas of Nano Science.

The Czech government has realized the importance of nanotechnology and has begun actively supporting the Nano industry via the participation of ministries and universities in research and development programs.

The European Nano materials generated revenue of USD 2,536 million in 2015 and is expected to reach USD 9,078 million for 2022 with a CAGR of 20.0% during 2016-2022.

According to the perspective leading companies, the factors that drive the demand for Nano materials in various end-users industries are a growing investment in research and development, a growth in the penetration of materials industries in various applications industries and excellent physicochemical properties of the Nanomaterials.

It is expected that global market for Nano Technologies and Nano materials will witness substantial growth during the forecast period. Nano materials including carbon Nano tubes already have established markets which are estimated to be significantly driven by the demand for filtration applications, cosmetics, energy, medicines, chemicals and many more.

The projections in the report are based on the analysis of current market trends and future market potential for the period 2014-2022 in terms of value and volume. The

segmentation of the market of Nano materials based on the region is provided to understand the current trends in various geographies.

The exhaustive analysis of the global market of Nano materials and Nano Science by the end user helps to understand the level of penetration of Nano materials in various applications in different regions and countries.

In 2017, sales increased by 33% to a new peak of 121,300 units, accounting for a share of 32% of total supply in 2017. Between 2012 and 2017 the average annual growth rate was 30%.

In 2017, the total worldwide stock of operational industrial Nano Science significantly increased by 15% to 2,097,500 units. Since 2012, the stock has been increasing considerably by 11% on average per year. The sales values increased by 21% to a new peak at USD 16.2 billion.

The main player in the Nano materials industries has been outlined in the report and their strategies has been thoroughly analyzed to understand the competing perspective of the market.

Organization sectors are utilizing Nano technologies in their day by day production. The concern of these areas is to limit the time management while maintaining eco-friendly nature and compliance with supervisory requirements set by governments. Advanced Materials and Nano technologies increase the profitability of organizations by getting introduced in the work management and also with a key to open the door for the latest requirements in Materials and Nano Science technologies.