

The Global Market for Carbon Nanotubes to 2033

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Abstracts

The global carbon nanotubes (CNT) market has experienced renewed growth recently, driven by demand for conductive materials for lithium-ion batteries for electric vehicles and other energy storage applications, with many producers greatly increasing production capacities.

Multi-walled carbon nanotube (MWCNT) powders, arrays, sheets, flakes, films and yarns have found applications in consumer electronics, power cables, ESD resins, batteries, polymer composites, coatings, aerospace, sensors, heaters, filters and biomedicine. Large-scale industrial production of single-walled carbon nanotubes (SWCNTs) has been initiated, promising new market opportunities in rubber, coatings, transparent conductive films, transistors, sensors and memory devices. Demand for CNTs will increase to >50,000 t.p.a. in the next few years.

Report contents include:

In depth analysis of global carbon nanotubes landscape including materials, production, producers and market demand.

Global production capacities for MWCNTs and SWCNTs, historical and forecast to 2033.

Industry activity and product news 2020-2022.

Analysis of other carbon nanotube related materials including Double-walled carbon nanotubes, Vertically aligned CNTs (VACNTs), Few-walled carbon nanotubes (FWNTs), Carbon nanohorns (CNH), Boron Nitride nanotubes (BNNTs) and carbon nanofibers.

Analysis of carbon capture production from carbon capture.

Market analysis of carbon nanotubes in batteries, supercapacitors, fuel cells, 3D printing, rubber, automotive and aerospace composites, packaging, electronics, adhesives, thermal management, construction materials, filters, biomedicine, lubricants, oil & gas, paints & coatings, solar cells, sensors, rubber, textiles and cables.

Analysis of competitive landscape against other additives (e.g. carbon fiber, carbon black, graphene etc.)

Analysis of synthesis methods. Analysis of carbon nanotubes synthesis from carbon capture, biomass and recycled materials.

Profiles of more than 150 companies. Companies profiled include Canatu, Carbon Corp, C12 Quantum Electronics, LG Chem, MECHnano, Capital Power Corporation, Somalytics, Huntsman Corporation, Li-S Energy Ltd., NEO Battery Materials, Raymor, NovationSi, Zeon Corporation, Eden Innovations Ltd, Cabot Corporation, Carbice Corporation, NAWA Technologies, SkyNano Technologies, OCSiAl, SmartNanotubes Technologies, Verdox etc.

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Figure 95. Carbon nanotube adhesive sheet.

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