

# The Global Market for CVD Graphene

<https://marketpublishers.com/r/GD8500636BBEN.html>

Date: June 2018

Pages: 220

Price: US\$ 665.00 (Single User License)

ID: GD8500636BBEN

## Abstracts

Chemical Vapor Deposition (CVD) is the favoured approach for the production of large area graphene films for application as transparent conductive layers in flexible electronics, touchscreens, sensors, and energy. This approach is industrially-scalable and produces films that have higher quality, homogeneity and are cheaper than those produced by chemical exfoliation.

The high-value applications for graphene generally require graphene films (solar cells, electronics, transparent electrodes, ultracapacitors, etc.). However, preparation of large-area, defect-free, continuous graphene film remains a challenge. Large consumer electronics companies are heavily involved in product development in this segment along with a number of smaller companies developing CVD Graphene films that be mass-produced and transferred to nearly any substrate. Low cost production and etch-free transfer of graphene films could potentially disrupt multi-billion dollar markets including sensors, energy storage, and flexible electronics.

Report contents include:

Stage of commercialization for CVD graphene applications, from basic research to market entry.

Market drivers, trends and challenges, by end user markets.

Market outlook for 2018.

In-depth market assessment of opportunities for CVD graphene in electronic, optoelectronics, biosensors and energy storage .

Production capacities by company (m2).

In-depth company profiles, including products, capacities, and commercial activities.

Detailed forecasts for key growth areas, opportunities and user demand.

Assessment of applications for other 2D materials competitive with and complementary to CVD graphene.

42 company profiles.

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