Forward Looking Statements

The statements contained in this presentation are based on information currently available to the The Graphene Council and the The Graphene Council provides no assurance that actual results and future performance and achievements will meet or not differ from the expectations of management or qualified persons. All statements other than statements of historical fact are forward-looking statements.

The words “believe,” “will,” “may,” “may have,” “would,” “estimate,” “continues,” “anticipates,” “intends,” “plans,” “expects,” “budget,” “scheduled,” “forecasts” and similar words are intended to identify estimates and forward looking statements. Forward-looking statements are not guarantees and involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the graphene sector to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements.

Actual results and developments may be substantially different from the expectations described in the forward-looking statements for a number of reasons, many of which are not under our control, among them, the activities of market stakeholders, the future global economic situation, weather conditions, market prices and conditions, exchange rates, and operational and financial risks.

The unexpected occurrence of one or more of the above mentioned events may significantly change the results of the graphene sector on which we have based our estimates and forward looking statements. Our estimates and forward looking statements may also be influenced by, among others, legal, political, environmental or other risks that could materially affect the potential development of the graphene sector, including risks related to outbreaks of war, embargoes, recessions, contagious diseases or health crises impacting overall economic activity regionally or globally.
Graphene

The thinnest material known to man and considered the first 2 dimensional (2D) substance.

The strongest material ever measured with tensile strength estimated at around 130 gigapascals (GPa) or higher.

The best conductor of heat and electricity ever measured.

Creates sustainable solutions by reducing energy inputs, embedded CO$_2$ and extending the life of products.

Combines with other elements to create superior advanced materials.

is

Driving

Innovation
The Graphene Council is Leading the Adoption of Graphene

The largest independent organization championing the graphene industry, catalyzing opportunities, and powering growth.

The most comprehensive source of information on graphene research, development, and commercialization.

The unified, unbiased voice that represents over 35,000 materials professionals worldwide who are engaged with graphene.

The Largest
Trade Association

The Most
Trusted

Over
35,000
Materials Professionals
The World Needs Sustainable Solutions
Lower CO2 Emissions
Using graphene in cement and concrete can significantly lower the amount of embedded CO2.

Renewable Energy
Graphene enables more efficient solar panels as a transparent electrode and is improving battery storage capabilities with higher energy density and faster charge acceptance.

Clean Water
Graphene can enhance the process of water desalination, ultra-water filtration, and the treatment of contaminated water, thereby reducing scarcity and the associated energy usage costs.

Better Healthcare
Graphene is being used to develop advanced sensing and detection technologies enabling faster and more precise testing. Graphene is also enabling next generation wound care and therapeutic applications.
Materializing the Future

Graphene applications are redefining and positively impacting almost every industry, laying the foundations for a low-carbon economy.

**Application Areas for Graphene**

- Additive Manufacture
- Aerospace
- Automotive
- Barrier Properties
- Coatings
- Composites
- Concrete and Cement
- Conductive Ink
- Corrosion Resistance
- Electrochemical
- Electronics
- Energy Generation
- Energy Storage
- Hall Effect Sensors
- Lubricants
- Magnets
- Medical Applications
- Optical Modulators
- Opto Electronics
- Photodetectors
- Pizoelectric Devices
- Plasmons
- Plastics
- Polymers
- Pressure Sensors
- Touch Screens
- Water Filtration
- and much more...
Large Volume Markets

Even modest estimates indicate a substantial market as graphene becomes a de facto standard ingredient in one or more high volume applications.

<table>
<thead>
<tr>
<th>Material</th>
<th>Annual Production Tons</th>
<th>Loading Ratio of 0.001</th>
<th>Loading Ratio of 0.005</th>
<th>Just 1% of Total Addressable Market</th>
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<tr>
<td>Concrete</td>
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<td>4,100,000</td>
<td>205,000,000</td>
<td>41,000</td>
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<td>Lubricating Oils</td>
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<td>80,000,000</td>
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<td>Polymers (Total)</td>
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<td>19,000,000</td>
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<td>PET</td>
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<td>87,000</td>
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<tr>
<td>PP</td>
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<td>76,000</td>
<td>3,800,000</td>
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<tr>
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<td>3,625,000</td>
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<td>Coatings</td>
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<tr>
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<td>PA</td>
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<td>325,000</td>
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</tbody>
</table>
Production and Demand Forecast

As per January 2023, global production capacity is approx. 23,000 mtns. of bulk graphene powder, slurry, and paste.

Based on the 5 largest volume applications, demand is expected to reach at least 100,000 mtns. per annum by 2030.
Real-world applications

Real impact

Graphene has been tested and trialed, proving its merit in a multitude of applications like cement, coatings, plastics, composites, and energy storage.

Market-ready and matured into a global industry with proven supply chain partners.

As regulatory approvals are obtained and expanded, we can confidently forecast a rise in demand for this innovative, sustainable material.
The Graphene Sector is Driving a Sustainable Global Transformation.
Disclaimer

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Thank You

CONTACT:
Name: Terrance Barkan, Executive Director
Email: tbarkan@thegraphenecouncil.org
Phone: +1 202 294 5563