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BluGlass launches direct-to-market Laser Diode business unit

Key Points

- BluGlass launches new, Laser Diode business unit
  - The GaN Laser Diode market addressable market is more than US$658M by 2025
  - BluGlass has an initial target market share of 6-10% (US$40-65M) by 2025
- New business unit will leverage BluGlass' unique RPCVD Tunnel Junction Technology
  - enables higher brightness and higher efficiency GaN Laser Diodes
- BluGlass has installed RPCVD capacity onsite in Silverwater to gain significant Laser Diode (high value and high margin product) revenues and build a profitable business unit

Australian semiconductor developer BluGlass Limited (ASX: BLG) has today announced the launch of a new direct-to-market business unit to leverage the Company's unique RPCVD technology advantages in the high value, high margin GaN Laser Diode Market.

High-brightness GaN laser diodes are used in a number of applications that include industrial lasers (cutting and welding), automotive and general lighting, displays, and life sciences.

BluGlass' patented RPCVD platform and unique tunnel junction capabilities offer laser diode manufacturers a number of unique performance and cost advantages over the industry incumbent technology, including:

- Higher performing devices and reduced optical loss
- Productivity and cost improvements
- Unique laser diode design

BluGlass' is developing GaN laser diode prototypes and expects to deliver its first laser diode product next calendar year. These new products are expected to deliver a clear path to significant revenues from CY2021.

The new business unit will be headed by the VP of Business Development, Brad Siskavich.
Mr. Siskavich has over 20 years of experience in laser diode business management. "This new business stream reflects our strategy of commercialising the competitive advantages of the RPCVD technology to maximise returns. This highly customisable, end-to-end approach will enable BluGlass to generate revenue in this high-value market and build our leadership in the manufacture of novel GaN laser diodes" said Brad Siskavich.

The total global market for laser market applications is estimated to reach US$27 billion by 2025. The GaN laser diode segment is an emerging market opportunity, expected to represent a US$658m Addressable Market for BluGlass by 2025. GaN lasers require a higher performance, lower cost technology solution to help address significant unmet needs in the industry. The company will initially focus on industrial laser diodes for welding and cutting applications, targeting a market capture of 6-10% (US$40-65M) of the addressable market by 2025.

“BluGlass is entering the Laser Diode market as a result of our success in demonstrating tunnel junctions as a building block for high-performance, cascade LEDs. Our RPCVD tunnel junction technology has unique, compelling advantages to drive performance and cost improvements for the GaN laser diode market,” said BluGlass Managing Director, Giles Bourne. “LEDs and laser diodes are, in their physics and material growth, very similar, which allows us to accelerate our entry into this new market space without diluting our activities on other RPCVD applications.’’

BluGlass, with the recent opening of the Paul Dunnigan Laboratories, now has the pre-installed RPCVD capacity onsite in Silverwater to gain significant Laser Diode revenues and build a profitable business unit.

About BluGlass

BluGlass Limited (ASX: BLG) is a global leader commercialising a breakthrough technology using Remote Plasma Chemical Vapour Deposition (RPCVD) for the manufacture of high-performance LEDs and other devices. BluGlass has invented a new process using RPCVD to grow advanced materials such as gallium nitride (GaN) and indium gallium nitride (InGaN). These materials are crucial to the production of high-efficiency devices such as power electronics and high-brightness (LEDs) used in next-generation vehicle lighting, virtual reality systems and device backlighting.

The RPCVD technology, because of its low temperature and flexible nature, offers many potential benefits over existing technologies including higher efficiency, lower cost, substrate flexibility (including GaN on silicon), and scalability.

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