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## **WORLD-FIRST BREAKTHROUGH FOR AUSTRALIAN GREEN LIGHTING COMPANY BLUGLASS LIMITED**

In a world's first, BluGlass Limited today announced that it has succeeded in producing blue light emission from the uniform deposition of gallium nitride (GaN) on a six-inch diameter, coated glass wafer. The emission of blue light is fundamental to producing high brightness white light suitable for general purpose lighting and has not previously been achieved from gallium nitride on glass of this size.

GaN is the material used in producing semiconductor solid state lighting and LEDs are cut from discs of the material called wafers.

"We have now demonstrated the potential of our market challenging technology to perform, by depositing gallium nitride (GaN) onto glass wafers ranging in size from two inch to six inch diameter. This increase in scale offers the global LED market additional cost efficiencies to those savings we announced in April, as a six inch wafer can produce nine times the number of LEDs to that produced from a two inch wafer, which still remains the global standard," quoted David Jordan the BluGlass CEO

Using its Australian-created technology, BluGlass has demonstrated it can achieve cost savings on several fronts for the LED industry. BluGlass released an independent study in April that showed cost savings of at least 48% could be achieved using its remote plasma GaN deposition process to create LEDs on two-inch glass wafers. This would translate into a 10% cost saving after the LED was manufactured into a simple lighting device.

The Australian company's ability to uniformly deposit gallium nitride (GaN), on glass wafers is generating substantial global interest as the company progresses the commercialisation of its technology for use by companies who manufacture GaN LEDs for the \$US100 billion global general lighting market.

The goal of the company is to facilitate the production of cheaper and more environmentally friendly lights for use in the home, offices and in industry. LEDs are the longest lasting form of lighting, able to burn for up to 10 years continuously, and they are also four to five times more energy efficient than the traditional incandescent light bulb which will be phased out under new environmental legislation in Australia and Globally.

### **About BluGlass Limited:**

BluGlass was founded in June 2005 based on work conducted at Macquarie University in NSW during the past decade. It was listed on the Australian Securities Exchange in September 2006 (ASX code: BLG). The company aims to commercialise a new cost efficient process for depositing gallium nitride to produce light emitting diodes for the global lighting industry. It also aims to have a positive environment benefit in reducing energy demand and greenhouse gas emissions.

### **Further information:**

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