

# **3DIcon and Coretec Industries LLC Target Semiconductors and Solar Energy for Early Adoption of Their Silicon-based Technology**

**The Companies Also See Significant Potential for Such Technology in Emerging Markets, Including Energy Storage, Solid State Lighting, Authentication, Building-integrated Solar and Printable Electronics**

TULSA, OK -- (Marketwired) -- 07/21/16 -- [3DIcon Corporation](#) (OTC PINK: TDCP), a developer of 3D volumetric display technologies that are designed to produce 360-degree volumetric high-resolution images, announced today its intent to target specific industries for early adoption as it works with merger partner Coretec Industries LLC (Coretec) to commercialize its IP portfolio of silicon-based materials. The IP portfolio of silicon-based materials will be accessible to 3DIcon following the signing of an exclusive licensing agreement between Coretec and the NDSU Research Foundation (NDSU/RF) at the end of June and the merger of 3DIcon and Coretec, scheduled to close prior to the end of July, after which Coretec will be wholly-owned by 3DIcon.

Coretec's underlying technology is based on the efficient production of a high value liquid silicon precursor, cyclohexasilane ("CHS"). A key advantage of CHS is that it is a liquid at room temperature and does not convert to a gas until heated above 400°F. This compares to materials commonly used for manufacturing silicon-based semiconductors and solar cells (silane and trichlorosilane) that have much lower boiling points (-170°F and 90°F, respectively) which leads to higher cost handling and shipping. Another key advantage of CHS, when compared to materials commonly used for manufacturing silicon-based semiconductors and solar cells, is that the production rate of the silicon forming step can be increased by a factor of six, leading to additional cost savings. Based on these competitive advantages and inquiries from potential users, Coretec anticipates that CHS will first be used as an alternative to silane or trichlorosilane in silicon-based semiconductor and solar cell manufacturing.

The Company also sees longer term potential in several emerging markets where there are opportunities to go beyond the use of CHS to make silicon films from a gas state, instead converting CHS into nanoparticles and nanowires, or directly from a liquid into a silicon film. These emerging, high-growth verticals include:

- Energy storage
- Solid state lighting
- Authentication
- Printable electronics

- Building-integrated solar energy

"One of the most exciting aspects of the commercialization of our portfolio of CHS technologies is the flexibility we have to target various industries and to generate both near term and long term revenue streams from these markets. Silicon is so omnipresent in so many industries that it gives us an overwhelming number of potential applications to pursue," said Doug Freitag, VP of Technology and Business Development, 3DIcon. "With an initial focus on semiconductor and solar energy applications, followed closely by energy storage and printable electronics, we believe we have the pieces in place to bring commercialized products to market."

The exclusive licensing agreement provides access to 11 existing and three pending patents representing the global intellectual property around this silicon-based technology for all of these markets. In addition, Coretec has an option to acquire the exclusive licensing rights to an additional 16 patents within the next 18 months.

"While our initial focus is to scale and launch new products based on CHS, we are also excited about the opportunities that exist for the optioned intellectual property," said Doug Freitag. "For example, an option on technology that allows for direct writing of metallic powders into small, well defined areas is already finding interest in manufacturing of electronic printed circuits and repair of metal parts."

### ***About 3DIcon Corporation***

3DIcon Corporation (the "Company", "3DIcon", "we", "us" or "our") is a developer of 3D display technologies. The Company's patented volumetric 3D display technology, CSpace®, is being developed to produce 360-degree viewable, high-resolution, color images, and is intended for use in government and industrial applications such as air traffic control, medical imaging, automotive & aerospace design, geological visualization, weather visualization, battle space visualization, and cargo / baggage / people scan visualization. For more information please visit [www.3dicon.net](http://www.3dicon.net).

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