Aurora Solar Technologies introduces Veritas™ Insight to maximize yield and performance in high-efficiency solar cell manufacturing

written by Raj Shah | March 12, 2018

March 12, 2018 (Source) – Aurora Solar Technologies Inc. (“**Aurora**”) (“**Company**”) (TSX.V:ACU) (OTCBB:AACTF) (FSE:A82) is pleased to announce the introduction of Veritas™ Insight, a new product in the Company’s mission of creating a fully integrated quality control system for the solar cell manufacturing industry.

Designed for use in PERC and other high-efficiency cell production lines, Veritas™ Insight directly addresses the growing challenges facing cell manufacturers in characterizing and controlling production variation. These variations cause yield limitations and profit loss, and can introduce excess warranty liabilities, due to poor electrical performance and other variances in finished cells. The effects can also be seen in the often-lengthy time it takes to bring new high-efficiency production lines up to speed, resulting in many weeks of sub-optimal performance.

Leveraging extensive research and experience with actual solar cell production line variance and their root causes, Veritas™ Insight directly addresses these problems. Surpassing

traditional Statistical Process Control methods, it detects and interprets complex process deviations or faults that cannot be directly discerned, but cause protracted declines in average efficiency or costly quality issues in the field. It reveals causal relationships between finished cell electrical variations and controllable upstream fabrication process variations in real-time. This allows production personnel to see, understand and manage tradeoffs and fluctuations as these occur in production. Veritas™ Insight provides these benefits with end-of-line cell performance alone or in combination with other production line measurements.

“Manufacturers urgently need to make use of the powerful information embedded within the enormous quantity of production data being generated as the industry scales to hundreds of gigawatts of annual production,” stated Gordon Deans, Aurora’s Chief Operating Officer. “This is especially vital for high-efficiency cell designs such as PERC, bifacial, heterojunction and other technologies. Veritas™ Insight now serves this need by transforming this valuable stream of data into actionable information to boost manufacturing yield and detect hidden process behaviour that affects product quality.”

Numerous high-efficiency solar cell manufacturers have already expressed a strong interest in the use of this novel tool to accelerate their manufacturing competitiveness and reduce costs in ramp-up and regular operations. Veritas™ Insight continues Aurora’s mission to provide robust, intuitive and powerful process measurement, visualization and control products, and will be available starting in April 2018.

About Aurora Solar Technologies:

Aurora’s mission is to deliver exceptional results to the

photovoltaic industry through measurement, visualization and control of critical processes during solar cell manufacturing. We measure and map the results of critical cell fabrication processes, providing real-time visualization of material properties, cell parameters and production tool performance. Our products provide process engineers and production-line operators with the means to rapidly detect, analyze and correct process excursions, limit variations, and optimize processes, thereby increasing yield and profits. We are creating the quality control standard for the global photovoltaic manufacturing industry. For more information, Aurora's website is located at www.aurorasolartech.com.

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