

October 1, 2014



Amtech Successfully Achieves 2nd Acceptance of PECVD Production Tools; Part of Successful Start-Up of Bifacial High Efficiency N-Type Cell Line at Mission Solar Energy LLC

TEMPE, Ariz., Oct. 1, 2014 /PRNewswire/ -- Amtech Systems, Inc. (NASDAQ: ASYS), a global supplier of production and automation systems and related supplies for the manufacture of solar cells, semiconductors, and sapphire and silicon wafers, today announced its solar subsidiary, Tempres Systems, has received the second field acceptance of its PECVD production tools as part of Mission Solar Energy's 100MW cell line in San Antonio, Texas, implementing next generation, high efficiency n-type cell technology.

Mr. Fokko Pentinga, Chief Executive Officer of Amtech, commented, "Our innovative technology solutions are clearly bringing value to our customers. We are happy to announce this second acceptance for our world class PECVD system. The PECVD system is an important strategic product we developed during the solar down cycle to aggressively support the solar growth opportunity during the next recovery cycle and provides us the opportunity to double the size of our served available market. Our ongoing objective is to bring new technology solutions to the market and advance our customers' production capabilities. Plus, as a global leader in our space we expect to outperform the market as solar technology solutions evolve and the next phase of the industry's growth accelerates."

About Amtech Systems, Inc.

Amtech Systems, Inc. manufactures capital equipment, including silicon wafer handling automation, thermal processing and ion implant equipment and related consumables used in fabricating solar cells, LED and semiconductor devices. Semiconductors, or semiconductor chips, are fabricated on silicon wafer substrates, sliced from ingots, and are part of the circuitry, or electronic components, of many products including solar cells, computers, telecommunications devices, automotive products, consumer goods, and industrial automation and control systems. The Company's wafer handling, thermal processing and consumable products currently address the diffusion, oxidation, and deposition steps used in the fabrication of solar cells, LEDs, semiconductors, MEMS and the polishing of newly sliced silicon wafers.

Cautionary Note Regarding Forward-Looking Statements

Certain information contained in this press release is forward-looking in nature. All statements in this press release, or made by management of Amtech Systems, Inc. and its subsidiaries ("the Company" or "Amtech"), other than statements of historical fact, are

hereby identified as "forward-looking statements" (as such term is defined in Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended). In some cases, forward-looking statements can be identified by terminology such as "may," "will," "should," "would," "expects," "plans," "anticipates," "intends," "believes," "estimates," "predicts," "potential," "continue," or the negative of these terms or other comparable terminology. Examples of forward-looking statements include statements regarding Amtech's future financial results, operating results, business strategies, projected costs, products under development, competitive positions and plans and objectives of the Company and its management for future operations.

We cannot guarantee that any forward-looking statement will be realized, although we believe that the expectations reflected in the forward-looking statements are reasonable. Achievement of future results is subject to risks, uncertainties and potentially inaccurate assumptions. The Form 10-K that we filed with the Securities and Exchange Commission for the year-ended September 30, 2013 listed various important factors that could affect Amtech's future operating results and financial condition and could cause actual results to differ materially from historical results and expectations based on forward-looking statements made in this document or elsewhere by Amtech or on its behalf. These factors can be found under the heading "Risk Factors" in the Form 10-K and investors should refer to them. Because it is not possible to predict or identify all such factors, any such list cannot be considered a complete set of all potential risks or uncertainties. Except as required by law, we undertake no obligation to publicly update forward-looking statements, whether as a result of new information, future events, or otherwise.

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