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Markets for Indium-Based Materials in Photovoltaics

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Abstracts

This report is part of NanoMarkets' ongoing analysis of both the PV materials space and the indium industry. In particular we discuss what the evolution of new transparent conductors and the continued growth of the PV market will mean in terms of new opportunities for the indium industry.

This opportunity analysis is carried out in the context of the big changes that the indium industry is going through at the present time with the recent developments in Chinese indium policy. We also examine how new manufacturing technologies – especially solution processing - will impact the kinds of indium-based materials that will be required by the PV industry. In addition, we examine the strategies that various firms in the PV supply chain are adopting with regard to indium-based materials.

Another goal of this report is to provide detailed forecasts of the markets for the various indium-containing materials considered in this report, as they apply to the photovoltaics industry. With an uncertain economy and the emergence of new PV technologies, quantitatively predicting indium use and consumption is an intricate task. ITO especially has so many applications outside of PV that the major market forces working on it are likely to be outside the PV arena as well. CIGS for PV cells, on the other hand, is expected to make up a significant portion of the indium market and have a large impact on its demand. This report is international in scope. Forecasts of indium consumption by PV technology including; crystalline silicon, thin-film silicon, CdTe, CIGS , OPV and DSC and other PV markets for indium-based materials. Forecasts of indium consumption in PV by material type are also included. Alternative scenarios and confidence intervals are also considered.

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ACRONYMS AND ABBREVIATIONS USED IN THIS REPORT

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+44 20 8123 2220
info@marketpublishers.com

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