



Solar cells: A brief vision of the present state of the art technology and the market

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ABSTRACT

Mexico and particularly in the north west land is one of the more privileged regions of planet by an excellent insolation that varies from in center country from 5 KWh/m² up to 7 and 8 Kwh/m² for day in the northwest. In the south the insolation is not as intense as the north, but hat of the order of 4 to 5 KWh/m² but this insolation is as good as those countries that are leaders in the use of solar cells as in Europe and Asia. For these reason Mexico is called to increase the generation of energy by means of the use of solar cells making use of the photovoltaic technology. In the last years it has been made important efforts in the increase of the efficiency of the solar cells, for example nowadays the more efficient solar cells reach 46% of efficiency with technology multi-union and solar concentrator device. But important in the last the years it is that produce cells with cheaper materials and technologies of manufacture are being constructed at low cost. Also this technology could be used favorably to manufacture of more efficient white LED of high brightness.

In this conference we make a brief review of the different technologies and important materials in the manufacture from solar cells. Finally we will show our efforts to make solar cell from InGaN in cubic phase.