

EcoSolifer creates revolutionary new thin-film cell structure - the 3Dcell

05. OCTOBER 2015 | BY: ECOSOLIFER

EcoSolifer AG will begin production in Q2 2016 of a worldwide first industrial heterojunction (HJT) cell production in Csorna, Hungary.

The 90-100 MWp/year HJT cell production line will be integrated with bifacial SmartWire glass-to-glass module manufacturing. The EcoSolifer Group is renowned for their on-going commitment to R&D activities, continuously focusing on innovation in PV technology.

EcoSolifer creates revolutionary new thin-film cell structure - the 3Dcell

EcoSolifer has recently introduced a leading edge, own-engineered and patented 3rd generation solar solution for all thin-film technologies, with substantially higher energy output; helping to achieve energy efficiency results the global PV industry is aiming for.

The 3Dcell is a revolutionary new thin-film cell concept that offers end-users a radical fall in the Levelised Cost of Energy (“LCOE”). This is achieved through a significant, double-digit percentage output efficiency increase.

The unique 3Dcell design originates from EcoSolifer’s unique patented solar cell process technology, which can be applied to any thin-film solar cell structures, including CdTe, CIGS, CIS and a-Si/ μ -Si etc.

The main feature of the 3Dcell innovation is a simple modification of the thin-film solar cell structure and refinement to the manufacturing process. 3DCell is an innovative new approach to solar cell design through which sunlight absorbance is maximized through multiple reflections while minimizing active layer thicknesses resulting in reduced resistive losses.

EcoSolifer’s 3Dcell has a huge additional advantage within the process of generating electricity; due to its unique built-in three-dimensional “sun tracking structure” which captures more useable light from a much wider angle than conventional cell structures.

The 3Dcell generates substantially higher energy output levels which, when combined with industry leading low production costs, achieves a very low LCOE providing users with significant competitive advantage.

Read more: http://www.pv-magazine.com/services/press-releases/details/beitrag/ecosolifer-creates-revolutionary-new-thin-film-cell-structure--the-3dcell_100021390/#ixzz3nlrhZ7j2