

## SOLAR WINDOW

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In recent years various companies are developing technology to turn ordinary windows into solar panels. And now the U.S. firm New Energy Technologies has also decided to compete in the creation of new sources of energy generation, providing SolarWindow.

New Energy Technologies is developing the first-of-its kind SolarWindow technology, which enables see-thru windows to generate electricity by 'spraying' their glass surfaces with New Energy's electricity-generating coatings. New Energy's solution is unique to the SolarWindow coatings. This innovation can make use of the world's smallest functional solar cells, which measure less than  $\frac{1}{4}$  the size of a grain of rice, and have been shown to successfully produce electricity in a published peer-reviewed study in the Journal of Renewable and Sustainable Energy of the American Institute of Physics. SolarWindow differs from its predecessors applying to the glass surface by spraying, using currently available technology. Do not require expensive high-temperature or high-vacuum production methods, but rather, can be sprayed on to glass at room temperature. It also generates electricity from both natural and artificial light sources, outperforming today's commercial solar and thin-film technologies by as much as 10-fold. The measure is less than 1/10th the thickness of 'thin' films (only 1/1000th the thickness of human hair).

SolarWindow technology – capable of generating electricity on see-thru glass windows – is under development for potential application in the estimated 5 million commercial buildings in America (Energy Information Administration) and more than 80 million single detached homes