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[\[Creativity\] National Taiwan University of Science and Technology Makes Breakthrough Inventing Second-Generation Solar Power Glass](#)

[Creativity] National Taiwan University of Science and Technology Makes Breakthrough Inventing Second-Generation Solar Power Glass ([Chinese Version](#))

CNA (2011/06/07) & udn.com (2011/06/08) National Taiwan University of Science and Technology announced on June 7 that the team developing solar power glass had made a big breakthrough introducing the next-generation glass, integrating the previous functions, namely, clean, power generation and thermal insulation, with the new technique which doubles the effect of heat insulation, reducing 50% of the air conditioning cost.

The team led by Professor Chin-Huai YOUNG at the Department of Construction Engineering, National Taiwan University of Science and Technology, began the development of solar power glass since 2008, intending to add the functions of cleaning and heat insulation to the solar power generating plate. The team succeeded in upgrading the first-generation model in July 2010, and the results were going to be introduced in Discovery recently.

Professor YOUNG said, by using two layers of semiconducting films and insulation films on the glass, the heat insulation effect of the second-generation is two times higher than the first-generation, and at the meanwhile its generation capacity has been lifted five times. A building with full adoption of the model will save 50% of the air conditioning cost.

The technology has been patented in Taiwan, E.U., U.S., Japan, Australia, Malaysia, China, etc. A demonstration house will be built near the Ta-an Forest Park MRT Station, whose construction is about to be finished next year, in Taipei.

Further Information:

[CNA 2011/06/07](#) (Chinese)

[Udn.com 2011/06/08](#) (Chinese)[Creativity] National Taiwan University of Science and Technology Makes Breakthrough Inventing Second-Generation Solar Power Glass ([Chinese Version](#))

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[National Science Council International Cooperation Sci-Tech Newsbrief](#)

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