

# Case Study: Ijsselstein Housing The Netherlands



Innovative Energy Solutions

**Location:** Ijsselstein Housing  
the Netherlands

**Construction:** BIPV application

**Completed:** August, 2001

**Peak Capacity:** 15kW

**Product:** Standard 40W  
module with semi-  
transparent 30W  
module

**Awards:** "Sustainable Energy"  
NOVEM, 1999

TerraSolar worked with Kiss + Cathcart Architects, Han van Zwieten, Architects and Thomasson Dura, developers, to develop a custom Building Integrated Photovoltaic (BIPV) product for moderate-cost, solar-electric housing. Fourteen rowhouse units were designed to conform to strict space and budget guidelines, integrating second-generation thin-film photovoltaics.

Amorphous thin-film PV has specific characteristics which allow it to take full advantage of the geography and building-integrated design of this project: it is less sensitive to direct sun radiation, more efficient in low light situations and higher latitudes, its aesthetic appearance is similar to glass and it is less-expensive than crystalline modules.

20m<sup>2</sup> panels are used to produce 1kWh per unit annually. The photovoltaic panels are integrated into raised two-level sunrooms. The standard and semi-transparent panels are interspersed with glass, wood, and translucent materials in a wood frame.

PV use in the Netherlands is among the most advanced in the world, combining solar technology and TerraSolar is pleased to have our custom products recognized there.

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