

Nieuwland

Amersfoort, Netherlands



Size:

173 acres, 5,000 units

Dates:

1995 - 2012

Project Team:

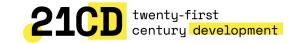
Environmental supervisor: BOOM, Novern, REMU

Lisa Dignard-Bailey

Nieuwland is a neighborhood development that promotes innovative solar PV. The development is a pedestrian-friendly neighborhood that also contains innovative water catchment areas and is designed to produce 1 MW of solar PV and create case studies of innovative technology.

Goals & Strategies

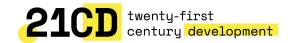
Place	
Limits to Growth	Goals: Goals not defined. Strategies: Strategies not reported.
Food	Goals: Goals not defined. Strategies: Strategies not reported.
Habitat	Goals: Goals not defined. Strategies: Landscaping includes wetland areas around pond. Parks, tree-lined streets.
Transportation	Goals: Goals not defined. Strategies: Public transportation. Limitation on vehicles and parking. Designated bike paths.
Water	
Water	Goals: Goals not defined. Strategies: Stormwater infiltration through catchment. Bioswales leading to ponds.



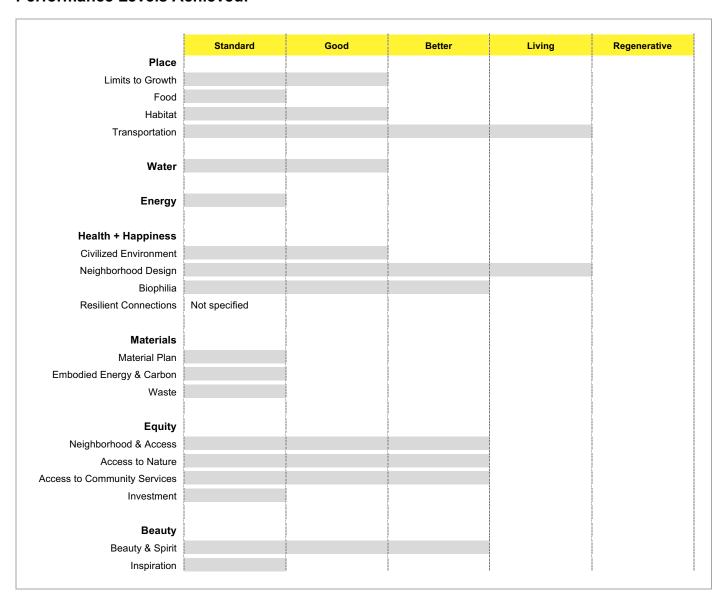
47 Energy		
Energy	Goals: Promote solar technology. Establish infrastructure for future cooperation between utilities and developers. Generate 1 MW solar PV. Strategies: Innovative solar PV that is integrated into roofing systems. Solar hot water. Daylighting access informed development. Enhancing system performance through optimized design.	
日 Health + Happiness (Details not provided by researchers)		
Materials		
Material Plan	Goals: Goals not defined. Strategies: Standard construction practices with an emphasis on efficiency.	
Embodied Energy & Carbon	Goals: Goals not defined. Strategies: Strategies not reported.	
Waste	Goals: Goals not defined. Strategies: Organized waste collection including compost, recycling, residual.	
目 Equity		
Neighborhood & Access	Goals: Goals not defined. Strategies: A diversity of housing types, cultural spaces, schools, and services. Human-scale design.	
Access to Nature	Goals: Goals not defined. Strategies: Public parks.	
Access to Community Services	Goals: Goals not defined. Strategies: Connection to greater community. Public art.	
Investment	Goals: Goals not defined. Strategies: Strategies not reported.	

	Beauty	(Details not provided by researchers)
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> See next page for Performance Levels achieved



Performance Levels Achieved:



Sources:

http://www.pvupscale.org/IMG/pdf/Case_study_Nieuwland_final.pdf http://www.pvdatabase.org/urban_view_detailsmore.php?ID=3 https://ieeexplore.ieee.org/document/535474

*Note: This case study was developed using found information.

21st Century Development is a model for the creation of regenerative communities that strives to provide a healthy environment for all people and living systems now and in a dynamic future.

The initiative is created and supported by a partnership of AIA Minnesota, the Center for Sustainable Building Research, Colloqate Design and The McKnight Foundation.







