

# Nieuwland

Amersfoort, Netherlands



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**Size:**  
173 acres, 5,000 units






**Dates:**  
1995 - 2012

**Project Team:**  
Environmental supervisor: BOOM,  
Novern, REMU

**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

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

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

> See next page for Performance Levels achieved

**Performance Levels Achieved:**

	Standard	Good	Better	Living	Regenerative
<b>Place</b>					
Limits to Growth					
Food					
Habitat					
Transportation					
<b>Water</b>					
<b>Energy</b>					
<b>Health + Happiness</b>					
Civilized Environment					
Neighborhood Design					
Biophilia					
Resilient Connections	Not specified				
<b>Materials</b>					
Material Plan					
Embodied Energy & Carbon					
Waste					
<b>Equity</b>					
Neighborhood & Access					
Access to Nature					
Access to Community Services					
Investment					
<b>Beauty</b>					
Beauty & Spirit					
Inspiration					

**Sources:**

- [http://www.pvupscale.org/IMG/pdf/Case\\_study\\_Nieuwland\\_final.pdf](http://www.pvupscale.org/IMG/pdf/Case_study_Nieuwland_final.pdf)
- [http://www.pvdatabase.org/urban\\_view\\_detailsmore.php?ID=3](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.

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