

## **Eva Lanxmeer**

Culemborg, Netherlands



Size:

300 units

Dates:

1993 – ongoing

**Project Team:** 

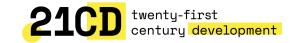
ECO Consult Foundation Architects: opMAAT, KWSA architects, Joachim Eble Architectur, Studio Orta, BNA architects, BJ van den Brink

Photo credit here

**Eva Lanxmeer is a unique residential community designed to incorporate new environmental technologies through extensive planning and innovative solutions.** The development includes residential units, commercial, and community buildings. Its goal is to provide a community that showcases sustainable innovations and allows people to be involved in their environment.

## **Goals & Strategies**

<u>Q</u> Place	
Food	Goals: Goals not defined.  Strategies: Greenhouses, organic food produced by the on-site farm. Food also grown in public and private gardens throughout the community.
Habitat	Goals: Enhance wildlife.  Strategies: Green roofs, green zone of preserved open spaces. Parks, gardens, extensive landscaping, neighborhood orchard, and wetlands. Built on water abstraction zone that no previous building had been allowed on; received permission based on sustainability measures.
Transportation	Goals: Promote public transportation and bicycle use.  Strategies: Walking paths, access to public transportation. Vehicle access limited.

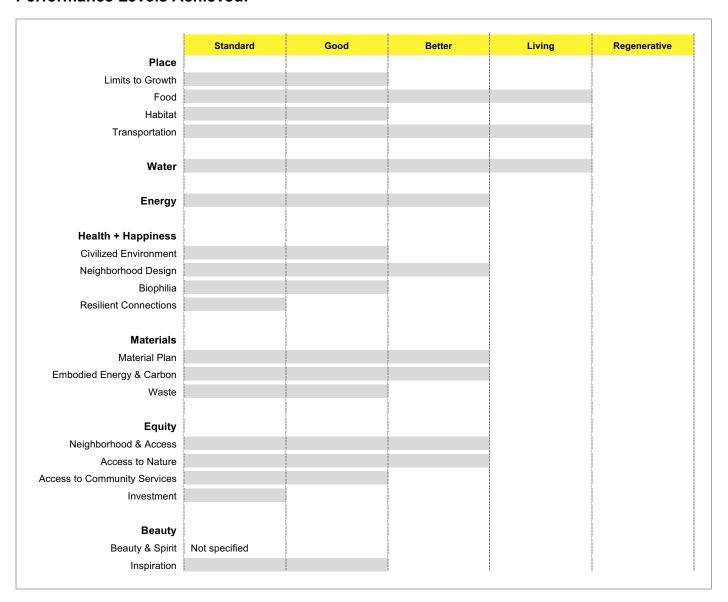


<b>Water</b>	
Water	Goals: Goals not defined.  Strategies: Permeable pavement. Groundwater drinking water. Living machine planned. Separation of water types. Efficient appliances. Rainwater harvesting for greywater. 5 retention ponds. Greywater filtered through wetlands and reused. Blackwater to be used for biogas plant and fertilizer (currently blackwater is connected to public sewer). Water allowed to recharge aquifer.
4 Energy	
Energy	Goals: Net-zero energy. 100% renewable energy.  Strategies: Biogas plant, solar PV. Monitoring program. Infrastructure in place for wind energy. Solar hot water and heating. High-efficiency boilers and heat pumps. Passive solar. Tight enclosures that prevent thermal bridging, minimize impervious surfaces.
Health + Happiness (Details not provided by researchers)	
<b>⊗</b> Materials	
Material Plan	Goals: Goals not defined.  Strategies: Building materials selected for low environmental impact.
Embodied Energy & Carbon	Goals: Goals not defined.  Strategies: Wood as primary building material. Recycled PVC.
Waste	Goals: Goals not defined.  Strategies: Wastewater to biogas and fertilizer.
吕 Equity	
Neighborhood & Access	Goals: 30% affordable units. Link together formerly isolated communities with a variety of public spaces for all ages.  Strategies: 38% rental units. Community designed around the pedestrian.
Access to Nature	Goals: Everyone has access to riverbanks.  Strategies: Daylighting in buildings. Balconies.
Access to Community Services	Goals: Goals not defined.  Strategies: Greenhouse space attached to housing. Community meetings. Gardening and education on farming. Website and case study on development.
Beauty	(Details not provided by researchers)

<sup>&</sup>gt; See next page for Performance Levels achieved



## **Performance Levels Achieved:**



## Sources:

http://www.eva-lanxmeer.nl

 $\underline{https://www.urbangreenbluegrids.com/projects/eva-lanxmeer-living-lab/}$ 

\*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.







