

Kronsberg

Hannover, Germany



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Size:
395 acres, 6,000 units


Dates:
Planning 1990 – 1994; First Phase 1996 – 2000; ongoing

Project Team:
City Council, 30 different developers

Kronsberg is a new residential ecodistrict on a former greenfield site. Its goal is to accommodate 15,000 residents and commercial areas in an ecological way.

Goals & Strategies

 Place	
Food	<p>Goals: Goals not defined.</p> <p>Strategies: Markets. Proximity to services. Composted food waste for gardens.</p>
Habitat	<p>Goals: Goals not defined.</p> <p>Strategies: Green roofs, courtyard gardens. Central park. Constructed wetlands. Every building has access to open spaces.</p>
Transportation	<p>Goals: Public transportation-oriented community.</p> <p>Strategies: High-density development with access to tram line connecting neighborhoods to greater community. Walkable neighborhoods. Bicycle infrastructure, traffic minimization strategies. 0.8 parking spaces ration per apartment.</p>
 Water	
Water	<p>Goals: Water retention and infiltration into the ground.</p> <p>Strategies: Water-saving fixtures. Stormwater retention and collection. 42-50% infiltration of rainwater. Green roofs, landscaped drainage and retention ponds.</p>

 Energy	
Energy	<p>Goals: Reduce CO2 emissions by 60%. Average heating demand: 56 kWh/m².</p> <p>Strategies: Low-energy construction to meet LEH standard. Designed to meet energy-efficiency targets. Energy-saving appliances. District solar heating. 32 passive houses. 3.6 MW wind turbines. 2 decentralized combined heat and power plants.</p>
 Health + Happiness (Details not provided by researchers)	
 Materials	
Embodied Energy & Carbon	<p>Goals: Goals not defined.</p> <p>Strategies: Low-energy construction methods. Nontoxic-certified materials used.</p>
Waste	<p>Goals: 80% of construction waste not landfilled.</p> <p>Strategies: Waste management innovations. Home composting, organized waste facilities. 80% presorting and recyclables from construction.</p>
 Equity	
Neighborhood & Access	<p>Goals: Ensure a mix of income levels can live in the development. 50% affordable units.</p> <p>Strategies: High-density development.</p>
Access to Community Services	<p>Goals: Goals not defined.</p> <p>Strategies: Pedestrian-friendly community centers including schools, daycare centers, and health center. Commercial area, art center, shopping, religious centers.</p>
 Beauty	(Details not provided by researchers)

> See next page for Performance Levels achieved

Performance Levels Achieved:

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

Sources:

<http://www.unil.ch/files/live/sites/ouvdd/files/shared/Colloque%202006/Communications/Eco-urbanisme/Bonnes%20pratiques/K.%20Rumming.pdf>
<https://www.slideshare.net/liyanarusman/presentation-task-4-p61498>

**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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