

Eco-Viiki

Helsinki, Finland



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Size:

57 acres, 5,700 residents

Dates:



1989 – 2000 Phase 1; 2010 – 2015 Final Phase






Project Team:

National Technology Agency, European Commission, Ministry of the Environment

Eco-Viiki is a planned community containing a mix of housing types. The landscape contains extensive stormwater planning. It is located 5 miles from the city center of Helsinki. The development is designed to reduce consumption and energy demands, replace fossil fuels with alternative energy, reduce urban runoff pollution, and conserve native habitat through stormwater management for the nature preserve.

Goals & Strategies

 Place	
Food	<p>Goals: Goals not defined.</p> <p>Strategies: Market gardening space. Resident gardening plots. Proximity to urban center. Preparation for future agrarian needs by reducing built environment surface area.</p>
Habitat	<p>Goals: Goals not defined.</p> <p>Strategies: Habitat, biodiversity, edible landscape. Resident garden plots. Stormwater buffer zone and retention ditches. Water purification, educational opportunities.</p>
Transportation	<p>Goals: Goals not defined.</p> <p>Strategies: Residents have ½ requirement for car parking. Public transportation access. Car parking is separated from dwellings. Limited access roads. Bike infrastructure. Access to public transportation.</p>
 Water	
Water	<p>Goals: 22 – 40 gallons of water per resident, per day.</p> <p>Strategies: Stormwater collection. Constructed wetlands to purify water that goes off site. Separation of water types. Efficient appliances. Clusters of development integrated with stormwater management.</p>

 Energy	
Energy	<p>Goals: Energy demand: 15 – 41 kBtu/ft². CO₂ emissions: 130 – 190 lb/gross yd². 15 – 20% renewable. 35.8 kBtu/ft², 33% reduction from conventional construction.</p> <p>Strategies: Strategies not reported.</p>
 Health + Happiness (Details not provided by researchers)	
 Materials	
Embodied Energy & Carbon	<p>Goals: Monitor building construction to meet ecological criteria goals.</p> <p>Strategies: BEES software used. Renewable resources selected for materials. Toxic materials banned in construction.</p>
Waste	<p>Goals: 350 pounds of waste per person, per year.</p> <p>Strategies: Community waste collection, sorted for recycling, compost, and garbage.</p>
 Equity	
Neighborhood & Access	<p>Goals: Goals not defined.</p> <p>Strategies: Mixed residency: seniors to young families with small children. 50% owner-occupied, 15% renters, 35% right-of-occupancy. Wood construction allowing for interior walls to change over time for different uses.</p>
Access to Community Services	<p>Goals: Goals not defined.</p> <p>Strategies: Community space, park for children, community saunas, walking paths, commercial center.</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.upv.es/contenidos/CAMUNISO/info/U0511280.pdf>
- https://www.rtpi.org.uk/media/5099/helsinki_20oct_202007_20final_1_.pdf
- <http://www.upv.es/contenidos/CAMUNISO/info/U0511281.pdf>

**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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