

ERASMUSVELD NEIGHBORHOOD

Hague, Netherlands



Size: 126 acres, 750 homes

Dates: Planning 2007, construction 2012-2020

Team: Developer: BPD

Description: Erasmusveld Neighborhood is a residential community and incubator for innovative technologies. The community is planned and new houses meeting requirements can be built on the plots.

Intent: Carbon negative, 100% renewable energy, 100% re-use of greywater.

S

Sit+Place

GOALS: (Food) ; (Habitat+Biodiversity) ; (Transport)

STRATEGIES: (Food) Community gardens, community farm plots, greenhouse for food production, and proximity to resources in grater community ; (Habitat+Biodiversity) Constructed wetlands, landscaping includes diverse plant species, aesthetically designed into development ; (Transport) Electric vehicle share, access to public transportation, car free zones, walkable community, centralized parking facility, 3 miles from city center

W

Water

GOALS: 100% re-use of greywater for non-potable use

STRATEGIES: Separated water types, storm water collected for greywater use in toilets, storm water directed to landscaped infiltration areas, vacuum sewer, contaminated storm water directed to constructed wetlands through canals

E

Energy

GOALS: Carbon negative, 100% local and renewable energy

STRATEGIES: Solar, wind geothermal energy, smart grid monitors demand and balances the systems supply, neighborhood heating network

E

Equity

Percentage of affordable units:
GOALS:

STRATEGIES: Green space for recreation, walkable community, and sound barrier at perimeter of community, sports and recreation fields, infrastructure "ribbon" is incorporated into landscaping and built environment in an aesthetic way

M

Materials

GOALS: (Materials) ; (Waste)

STRATEGIES: (Materials) Residents can choose from, pre-designed housing types that meet sustainable standards can design own unit if it uses passive solar strategies ; (Waste) Waste to energy resource for wastewater, vacuum separation system for waste, vacuum toilets, recycling center and education, composting

SUSTAINABILITY MATRIX

		STANDARD	GOOD	BETTER	LIVING COMMUNITY	REGENERATIVE
S Site+Place	Limits to growth			Built on greyfield of brown-field, developed for density, conserves habitat land		
	Urban Ag			Every resident to have access to community garden, greenhouse, local farm education		
	Habitat Exchange			Constructed wetlands, land set aside, native plantings, 25% + of developable space is undeveloped		
	Human Powered Living			Walkable streets, bicycle infrastructure, public transit links, car sharing, EV charging stations, easy access to services		
W Water	Net Positive Water			Greywater purification & reuse, on-site treatment of some blackwater, constructed wetlands, stormwater prevention (green-roofs & impermeable surfaces)		
E Energy	Net Positive Energy			2030 standards of efficiency, advanced construction techniques, ongoing monitoring to meet goals, net +ve energy, carbon neutral goals, 100% renewable energy		
H Health+Happiness	Civilized Environment		Community has some groups to promote social connections			
	Healthy Neighborhood Design			Access to walking and bike trails connecting amenities, parks, recreation areas		
	Biophilic Environment			Innovative landscaping using native plants, rain gardens, constructed wetlands, access to parks, waterfront, community gardening		
	Resilient Community Connections	Nothing considered/ not reported				
M Materials	Living Material Plan			Access to walking and bike trails connecting amenities, parks, recreation areas		
	Embodied Carbon Footprint		Some proxy standards for reducing CO2 in material selection and construction			
	Net Positive Waste		Material selection for recycled/recyclable materials, waste collection facilities, reduction standards			
	Human Scale and Humane Places			Project is designed to create human-scaled places, promotes culture & interaction		
E Equity	Universal Access to Nature and Place			Access to parks, landscaping is innovative, promotes sense of place, community agriculture, daylighting for buildings		
	Universal Access to Community Services			Diversity of services available in community easily accessible by different modes of transportation		
	Equitable Investment	No contribution to charity				
B Beauty	Beauty and Spirit					
	Inspiration and Education		Some education on the developments attributes, some opportunities for community events			

SOURCES:

<http://www.proeftuinerasmusveld.nl/>
http://www.bpdeurope.com/media/84005/p188_bpd_12_factsheet_den-haag_erasmus-veld.pdf
<http://www.bpdeurope.com/investors/investor-projects/the-netherlands/the-hague-erasmusveld>