

REGENVILLAGES | Almere, Netherlands



Size: New construction; Greenfield size: 4 acres, 75-100 residents

Dates: 2016-ongoing

Team: ReGen Villages Holding, B.V. R-Gen, Incorporated-Delaware C-Corp, ReGen Labs

Description: RegenVillages are planned, prefabricated villages designed for self sufficiency and able to be constructed in any location

Intent: Self sufficiency, net positive energy, closed loop waste to resource systems, able to be constructed anywhere

S

Sit+Place

GOALS: (Food) Not defined ; (Habitat+Biodiversity) Not defined ; (Transport) Not defined

STRATEGIES: (Food) Aquaponics that recycle grey water and provide nutrients to food production, organic vertical farming located within the village ; (Habitat+Biodiversity) Closed waste to resource loops, water purification, likely landscaping and storm water retention ponds ; (Transport) Within the village there are no roads for cars. It is unclear how they will connect to the greater community

W

Water

GOALS: Not defined

STRATEGIES: Landscaping for water retention, storm water is collected, on-site treatment for water, separation of greywater, recycle water through aquaponics and greenhouse, efficient appliances

E

Energy

GOALS: Net positive energy producing, 100% + renewable energy

STRATEGIES: Regen villages will be net-positive energy producers using renewable energy. designed for off-grid capabilities, employ a smart grid, generate power through solar panels, biomass, geothermal, wind and biogas from community waste

E

Equity

Percentage of affordable units: Not defined
GOALS: Not defined

STRATEGIES: Walkable community, biophilic design, gardens, greenhouses attached to homes. Designed to be high-end living

M

Materials

GOALS: (Materials) Not defined ; (Waste) Not defined

STRATEGIES: (Materials) Not reported ; (Waste) Greywater recycling, compost waste to energy, recycling, buildings will be prefabricated and deconstructable, they are designed to meet passive house standards

SUSTAINABILITY MATRIX

		STANDARD	GOOD	BETTER	LIVING COMMUNITY	REGENERATIVE
S Site+Place	Limits to growth		Developed for density/limits growth, contains open space			
	Urban Ag				Urban Ag contributes to communities food source, integrated opportunities for agriculture using Floor Area Ratio	
	Habitat Exchange			Constructed wetlands, land set aside, native plantings, 25% + of developable space is undeveloped		
	Human Powered Living		Promotes walkable streets, bicycle infrastructure, access to some services			
W Water	Net Positive Water				100% community water needs met by captured precipitation or closed loop water system, all water discharged treated and managed at the community scale: reuse or infiltration	
	Net Positive Energy				105% community energy needs met by community generated renewable energy. No combustion based energy	
E Energy	Civilized Environment			Community has some organization and collaborates on 1-2 of the living community listed programs		
	Healthy Neighborhood Design		Some access to walking trails that connect to 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				
H Health+ Happiness	Living Material Plan	Standard construction & material selection				
	Embodied Carbon Footprint	No embodied carbon measuring or offsetting greater than code				
	Net Positive Waste	Standard construction, material selection, and waste collection				
	Human Scale and Humane Places			Project is designed to create human-scaled places, promotes culture and interaction		
M Materials	Universal Access to Nature and Place		Access to parks, promotes sense of place, some daylighting strategies for buildings			
	Universal Access to Community Services		Some services & community centers in development accessible by bike or walking			
	Equitable Investment	No contribution to charity				
E Equity	Beauty and Spirit					
	Inspiration and Education					Eco-literacy is continually built and engaged throughout the community
B Beauty						

SOURCES:

<http://www.regenvillages.com/>
https://sustainabledevelopment.un.org/content/documents/622766_Ehrlich_Integrated%20village%20designs%20for%20thriving%20regenerative%20communities.pdf
<http://inhabitat.com/utopian-off-grid-village-grows-own-food-in-shared-local-eco-system/>
<http://www.digitaltrends.com/home/regen-villages-produces-own-food-and-energy-netherlands/>
<http://www.dezeen.com/2016/05/20/effekt-designs-regen-villages-produce-own-food-energy-danish-pavilion-venice-architecture-biennale-2016/>



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