

ABUNDANCE ECOVILLAGE | Fairfield, Iowa, U.S



Size: 15 acres, up to 23 single family units, 2 multi-family units

Dates: 2002-ongoing; 2012- 14 homes occupied

Team: Michael Havelka, Lawrence Gamble, Amy Greenfield

Description: Abundance Ecovillage is a planned offgrid community located on agricultural land outside of the town of Fairfield. Residents can purchase a lot & build a house to required performance standards.

Intent: Create a robust community that promotes health & prosperity for the residents and greater environment

S
Sit+Place

GOALS: (Food) Promote community engagement in agriculture; (Transportation) Promote bike commute
 STRATEGIES: (Food) Community gardens & greenhouse, permaculture landscaping; (Habitat+Biodiversity) Landscaping with native prairie plants, constructed wetlands for water purification, beekeeping, large amount of acreage not developed; (Transportation) Bike infrastructure connecting to greater community, walking paths.

E
Energy

GOALS: Consume 80% less energy than code, maximum 300 kilowatts per month per house.
 STRATEGIES: Passive solar design strategies, passive house envelope strategies, on site renewable energy: Wind, solar PV and hot water, passive ventilation, geothermal for heating and cooling.

W
Water

GOALS: 100% stormwater infiltration on site, blackwater treatment on-site
 STRATEGIES: Rainwater capture, storage and reuse for non-potable uses in the home, constructed.

E
Equity

Percentage of affordable units: Not reported.
 GOALS: Foster community, promote health and wellbeing for residents.
 STRATEGIES: Public access to streets, walking paths, outdoor community amphitheater, ponds for swimming, community education on sustainable living, community hosts lectures, films and concerts.

M
Materials

GOALS: (Materials) Sustainable materials preferred.; (Waste) 100% food wastes composted.
 STRATEGIES: (Materials) Wood construction, labeled material preference for no toxicity.; (Waste) Waste treated on site, composting, recycling facilities on site and collection services provided to the neighborhood.

SUSTAINABILITY MATRIX

		STANDARD	GOOD	BETTER	LIVING COMMUNITY	REGENERATIVE
S Site+Place	Limits to growth		Developed for density/limits growth, contains open space			
	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 undeveloped	
	Human Powered Living		Promotes walkable streets, bicycle infrastructure, access to some services			
W Water	Net Positive Water		Some stormwater reuse or infiltration, grey water recycling, conservation goals			
	Net Positive Energy		2030 standards goal of efficiency, some reduction goals for energy & carbon, some renewable energy, solar PV ready			
E Energy	Civilized Environment				Community has some organization & 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		Some material selection standards, passive house standards			
	Embodied Carbon Footprint		Some proxy standards for reducing CO2 in material selection and construction			
	Net Positive Waste				Reduction in construction waste, material selection for recycled/recyclable materials, innovative waste collection facilities, waste to energy	
	Human Scale and Humane Places				Project is designed to create human-scaled places, promotes culture & interaction	
M Materials	Universal Access to Nature and Place				Access to parks, innovative landscaping, promotes sense of place, community agriculture, daylighting	
	Universal Access to Community Services		Some services+community centers in development accessible by bike/walking			
	Equitable Investment	No contribution to charity				
E Equity	Beauty and Spirit					
	Inspiration and Education				Unit metering, education on sustainable practices, opportunities for community engagement	
B Beauty						

SOURCES:

<http://www.abundance-ecovillage.com/>
<http://www.greenfieldproperties.com/?gallery=abundance-ecovillage>



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