SONOMA MOUNTAIN VILLAGE Rohnert Park, California, U.S.



Size: (New construction) 200 acres, 1,900 homes, 5,000 residents

Dates: 2006-2025

Team: Codding Enterprises

Description: The Sonoma mountain village is a mixed-use community that integrates sustainability in to the planning and lifestyle of the development. They received the GEELA Leadership award and were endorsed by One Planet Communities

Intent: LEED ND Platinum, community education and involvement, "Five minute lifestyle" where services are readily accessible



GOALS: (Food) Source 65% of all food within 300 miles and 25% from within 50 miles by 2020; (Habitat+Biodiversity) 20% greenspace, 10% habitat; (Transport) Reduce transportation emissions by 82%.

STRATEGIES: (Food) Community gardens, fruit trees, farmers market, grocery store, micro farm in community, daily farmers markets; (Habitat+Biodiversity) 27 acres of parks, Prohibited use of pesticides and herbicides, edible landscaping; (Transport) Walkable neighborhoods, bike paths, electric vehicles charged with solar power, services in walkable areas, biofuel filling station, carpooling and car sharing programs, alternative fuel shuttle to Sonoma State University



GOALS: Reduction of consumption by 60% from norm

STRATEGIES: Efficient appliances, education, rainwater harvesting and reuse of water, reclaimed water used for irrigation, storm water used for habitat



GOALS: Carbon Neutral by 2020, 100% renewable energy for electricity by 2020 (currently 50%).

Energy Demand: 27.3-50 kBtu/ft²

STRATEGIES: 1.14 MW solar array, data center, ground-sourced heat pumps, biomass, biogas



Percentage of affordable units: 25% affordable housing units will be made available for rent and purchase GOALS: Not defined

STRATEGIES: Public art, murals, festivals, business incubator to promote live-work and community involvement, community gardens, walking and bike trails, dog parks, sports field, walkable and accessible streets, sustainability education



GOALS: (Materials) The construction uses 20% of materials from the site and 60% of materials from within 500 miles; (Waste) Zero waste

STRATEGIES: (Materials) Low impact materials were selected, cradle-to-cradle accounting was used to calculate embodied carbon of all materials, resource efficiency; (Waste) Composting, generating energy through waste. Construction waste reduction: 90% from demolition, 70% construction waste, and 25% from new construction







SUSTAINABILITY MATRIX

		STANDARD	GOOD	BETTER	LIVING COMMUNITY REGENERATIVI	Ē
	Limits to growth			Built on greyfield of brown- field, develloped for density, conserves habitat land		
S Site+Place	Urban Ag			Opportunity for every resident to have access to community garden, green-house, 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		
Water [Net Positive Water			Greywater purification & reuse, on-site treatement of some blackwater, constructed wetlands, stormwater prevention (green-roofs & impermiable surfaces)		
Energy	Net Positive Energy			2030 standards goal of effi- ciency, some reduction goals for energy & carbon, some renewable energy, solar PV ready		
Health+ Happiness	Civilized Environment			Community has some orga- nization and collaborates on 1-2 of the living community listed programs		
	Healthy Neighborhood Design			Access to walking and bike trails that connect to amenities, parks, recreation areas		
	Biophilic Environment			Innovative landscaping using native plants, rain gardens, constructed wetlands, access to parks, waterfront, commu- nity gardening	,	
	Resilient Community Connections	Nothing considered/ not reported]	, <u>, , , , , , , , , , , , , , , , , , </u>	_	
M	Living Material Plan			Rigorous material selection standards, material plan made available to public		
	Embodied Carbon Footprint			Material selection require- ments, proxy standards for reducing CO2 in material selection and construction on-going energy monitoring		
Materials	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 and interaction		
_ [Universal Access to Nature and Place			Access to parks, innovative landscaping, promotes sense of place, community agriculture, daylighting in buildings	e -	
E Equity	Universal Access to Community Services			Diversity of services available in community easily acces- sible by different modes of transportation		
l	Equitable Investment	No contibution to charity]			
$f B_{ extsf{Beauty}}$	Beauty and Spirit				Public art is incorporated into the community	
	Inspiration and Education			e	Educational website, brochures, seducation on buildings, landscap- ing & infrastructure, case study, metering, ongoing improvements	
SOURCES:						
https://somovillage.com/ http://inhabitat.com/sonoma-mountain-village-north-americas-first-one-planet-community/ http://www.pressdemocrat.com/news/5036774-181/farmster-takes-root-in-rohnert?ref=menu http://patch.com/california/rohnertpark-cotati/development-update-sonoma-mountain-village-plans-progress						





