West Davis Active Adult Center Sustainability Goals Matrix and Action Summary

Transportation	Energy	Water
Goal 1: Serve as a model for low-carbon, climate-resilient development that also enhances the fiscal and equitable sustainability of the broader community.	Goal 1: Serve as a model for low-carbon, climate-resilient development that also enhances the fiscal and equitable sustainability of the broader community.	Goal 1: Serve as a model for low-carbon, climate-resilient development that also enhances the fiscal and equitable sustainability of the broader community.
Objective 1.1: Achieve sustainability lower GHG emissions per capita for both residents and employees of the district compared to baseline levels, in support of the City of Davis' and UC Davis' long-term goals to achieve carbon neutrality.	Objective 1.2: Encourage innovative site and building design that encourages a healthy and interconnected natural and built environment, conserves natural resources, and promotes equitable and efficient communities.	Objective 1.2: Encourage innovative site and building design that encourages a healthy and interconnected natural and built environment, conserves natural resources, and promotes equitable and efficient communities.
Objective 1.2: Encourage innovative site and building design that encourages a healthy and interconnected natural and built environment, conserves natural resources, and promotes equitable and efficient communities.	Objective 1.4: Promote and demonstrate resiliency to the effects of climate change and other challenges through project design.	Objective 1.4: Promote and demonstrate resiliency to the effects of climate change and other challenges through project design.
Objective 1.3: Promote and demonstrate resiliency to the effects of climate change and other challenges through project design.	Goal 3: Design and Construct high performance buildings, public lighting, and on-site renewable energy systems that work towards achieving ZNE by development build-out.	Goal 4: Maximize water and wastewater efficiency and protect water quality through the use of water conservation, water reuse, and integrated landscaping and stormwater management strategies.
<u>Goal 2</u> : Strive for carbon neutral transportation through the use of innovative designs, infrastructure, technologies, and programs.	Objective 3.1: Achieve high-performance buildings at a minimum 30 percent compliance margin relative to the 2013 Title 24 Building Energy Efficiency Standards, or equivalent. High-performance buildings will also incorporate energy consumption feedback mechanisms in order to encourage resident and employee engagement and minimize wasted energy use.	Objective 4.1: Meet or exceed 2013 CALGreen Tier 1 water use efficiency requirements for indoor water use.
Objective 2.1: Reduce automobile dependency and reduce vehicle trips generated within the District by 10 percent compared to original project trip generation forecasts, working towards the communitywide goal of achieving 50 percent non-single-occupancy-vehicle (SOV) mode share for residential and commercial development by 2035.	Objective 3.2: Other building loads not covered by Title 24 will also achieve high levels of efficiency, (i.e. 100 percent high-efficiency lighting, ENERGY STARS appliances and equipment), and lighting will be adaptive where practicable.	Objective 4.2: Minimize use of potable water in outdoor landscaping and maximize the use of non-potable water.
Objective 2.2: Achieve a 20 percent reduction in project-related vehicle miles traveled (VMT), compared to original project VMT forecasts.	Objective 3.3: Design the development to achieve ZNE such that all site energy use is offset with renewable energy generation on an annual basis. To the extent possible, on-site generation will be used to meet this objective; however, off-site generation and purchase of renewable energy offsets will also be considered. Site energy use to be offset includes building energy use, all street and area site lighting, and other community related energy uses such as pools and community buildings. It does not include mobile sources / transportation-related energy use.	Objective 4.3: Work towards achieving zero net water usage though use of best management practices and innovative technologies.
Objective 2.3: Achieve maximum connectivity and safety for pedestrians, bicyclists, and transit users.		Objective 4.4: Incorporate creative low-impact development (LID) solutions to meet stormwater treatment and water quality requirements.
Objective 2.4: Incentivize the use of clean, energy-efficient, active (i.e, human powered), and economically sustainable means of travel.		
Objective 2.5: Achieve an average vehicle ridership (AVR) of 1.5 for peak period commutes trips by employees of the project office uses.		

Open Space and Parks (Site Planning)			
Goal 1: Serve as a model for low-carbon, climate-resilient development that also enhances the fiscal and equitable sustainability of the broader community.			
Objective 1.2: Encourage innovative site and building design that encourages a healthy and interconnected natural and built environment, conserves natural resources, and promotes equitable and efficient communities.			
Objective 1.4: Promote and demonstrate resiliency to the effects of climate change and other challenges through project design.			
Goal 5: Create synergy with other project design goals and existing community sustainability initiatives.			
Objective 5.1: Preserve and promote the health of future residents and employees and the local ecosystem.			
Objective 5.2: Ensure appropriately sited and programmed open spaces and parks, in order to meet the recreational needs of new residents and employees while maximizing habitat connectivity, public health, active transportation connectivity, and stormwater management.			
Objective 5.3: Provide access to local agriculture, including on-site agriculture in the form of community gardens, rooftop gardens, vertical aeroponic farming, and other options.			
Objective 5.6: Incorporate opportunities to educate and empower future residents and employees to increase awareness of resource consumption and their carbon footprint.			

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Actions	Actions	Actions	Actions
Bicycle Infrastructure	Passive Design	Outdoor-Use Demand Reduction	Open Space
Bicycle Share Stations	High-Performance Building Envelopes – Multi-Family	Low Water Landscape Planting	Dedicated Open Space/Green Belt Standard
Bike Route Enhancements	High-efficiency HVAC – Multi-family	Indoor-Use Demand Reduction	Allowed Uses and Activities Restrictions
Bike Repair Facilities	Fresh Air Ventilation – Multi-family	High efficiency fixtures	Open Space Vegetation Requirements
Bike Parking	High-efficiency DHW Systems – Multi-family	Ultra high efficiency fixtures	Open Space Energy Generation Opportunities
Bike Storage Rooms	ENERGY STAR Appliances	Water Usage Study	Neighborhood Greenbelt
Transit Infrastructure	High-efficacy Lighting Systems – Multi-family	Non-Potable Water Supply System	Neighborhood Greenbelt Connections
Construct Bus Stops	Electricity Load Control and Feedback	Non-Potable Water Supply Infrastructure	Habitat Enhancement
Trip Planning Assistance	Third-party Energy Verification	Greywater/harvested rainwater	Wildlife Habitat
Improve Amtrak Station Connections	High-performance Building Envelopes – R&D/office Buildings	Stormwater and Low Impact Development	Public Park Standards and Programming
Transit Subsidies	High-performance HVAC – R&D/office Buildings	Minimize Impervious Areas	On-Site Parks Acreage Requirement
Transportation Management	Fresh Air Ventilation – Non-residential Buildings	Disconnect Impervious Areas	Stormwater detention integration
On-Site Transportation Coordinator	High-efficacy Lighting Systems – R&D/office Buildings	"At-source" drainage management	Mini Parks and Gathering Spaces
Electric Vehicle Infrastructure	Whole-building Energy Management System	Stormwater Drainage Treatment BMPs	Community Parks
EV Parking	Commissioning – R&D/office Buildings	On-Site/Off-site Hydrology and Hydraulics Analysis	Scenic Views
EV Car Sharing	Smart Lighting Strategies		Running trail around perimeter of project
Additional Implementation Actions	Efficient Pool and Spa Systems		Plazas
Subsidized Bike Share	PV Array Installation		Outdoor plazas
Subsidized Car Share	Building Rooftop Design for PVs		Food Producing Gardens
Ride Sharing Program	PV Shade Structures		Community Gardens
Vanpool Program	Alternative PV Sites		Internal Recreational Uses
	Offsite Renewable Energy Strategies		Gyms/Yoga Studio/Similar Facilities
			Pool
			Spas
			Design Features
			Complete Streets (safe accommodation of all users)
			Pervious Surfaces and Biofiltration
			Spas
			Stormwater Planters
			"cool" Paving materials
			Integrate recycled Materials (RHMA)
			Plant Selection
			Plant Selection
			Turf restrictions
			Mulching
			Shade Trees
			Green Roofs
			Green roof and "cool" roof features
			Dual-purpose Private Open Space in Residential Buildings
			Accessibility and Safety
			Playground Accessibility
			Improve overall safety
		F	Increase wayfinding
		F	Allow for outdoor fitness and activities
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