

**APPENDIX I**  
**GREENHOUSE GAS SCREENING TABLE**

**City of Victorville Screening Table for Implementation of GHG Reduction Measures for Residential Development**

Feature	Description	Assigned Point Values	Project Points
<b>Building Envelope</b>			
Insulation	2019 baseline (walls R-16; roof/attic R-32)	0	9
	Enhanced Insulation (rigid wall insulation R-13, roof/attic R-38)	9	
	Greatly Enhanced Insulation (spray foam insulated walls R-18 or higher, roof/attic R-38 or higher)	11	
Windows	2019 Baseline Windows (0.3 U-factor, 0.23 solar heat gain coefficient [SHGC])	0	9
	Enhanced Window Insulation (0.28 U-factor, 0.22 SHGC)	7	
	Greatly Enhanced Window Insulation (0.28 or less U-factor, 0.22 or less SHGC)	9	
Cool Roof	2019 Standard (none)	0	6
	Enhanced Cool Roof (CRRC Rated 0.2 aged solar reflectance, 0.75 thermal emittance)	6	
	Greatly Enhanced Cool Roof (CRRC Rated 0.35 aged solar reflectance, 0.75 thermal emittance)	7	
Air Filtration	Air barrier applied to exterior walls, caulking, and visual inspection such as the HERS Verified Quality Insulation Installation (QII or equivalent)	6	6
	Blower Door HERS Verified Envelope Leakage or equivalent	5	5
Thermal Storage of Building	Modest Thermal Mass (10% of floor or 10% of walls 12" or more thick exposed concrete or masonry with no permanently installed floor covering such as carpet, linoleum, wood or other insulating materials)	1	1
Building Envelope Performance Standard	Enhanced Thermal Mass (20% of floor or 20% of walls: 12" or more thick exposed concrete or masonry. No permanently installed floor covering such as carpet, linoleum, wood or other insulating materials)	2	2
<b>Indoor Space Efficiencies</b>			
Heating/Cooling Distribution System	Minimum Duct Insulation (R-6 required)	0	5
	Enhanced Duct Insulation (R-8)	5	
	Distribution loss reduction with inspection (HERS Verified Duct Leakage or equivalent)	7	
Space Heating/Cooling Equipment	2019 Minimum HVAC Efficiency (EER 13/75% AFUE or 7.7 HSPF)	0	4
	Improved Efficiency HVAC (EER 14/78% AFUE or 8 HSPF)	2	
	High Efficiency HVAC (EER 15/80% AFUE or 8.5 HSPF)	4	
	Very High Efficiency HVAC (EER 16/82% AFUE or 9 HSPF)	5	
Water Heaters	2019 Minimum Efficiency (0.57 Energy Factor)	0	11
	Improved Efficiency Water Heater (0.675 Energy Factor)	7	
	High Efficiency Water Heater (0.72 Energy Factor)	9	
	Very High Efficiency Water Heater (0.92 Energy Factor)	11	
	Solar Pre-heat System (0.2 Net Solar Fraction)	2	
	Enhanced Solar Pre-heat System (0.35 Net Solar Fraction)	5	
Daylighting	All peripheral rooms within building have at least one window or skylight	0	1
	All rooms within building have daylight (through use of windows, solar tubes, skylights, etc.)	1	
	All rooms daylighted	1	
Artificial Lighting	2019 Minimum (required)	0	6
	Efficient Lights (25% of in-unit fixtures considered high efficacy. High efficacy is defined as 40 lumens/watt for 15 watt or less fixtures; 50 lumens/watt for 15-40 watt fixtures, 60 lumens/watt for fixtures >40watt)	5	
	High Efficiency Lights (50% of in-unit fixtures are high efficacy)	6	
	Very High Efficiency Lights (100% of in-unit fixtures are high efficacy)	7	
Appliances	Star Commercial Refrigerator (new)	1	1
	Energy Star Commercial Dish Washer (new)	1	1
	Energy Star Commercial Cloths Washing	1	
<b>Miscellaneous Residential Building Efficiencies</b>			
Building Placement	North/South alignment of building or other building placement such that the orientation of the buildings optimizes conditions for natural heating, cooling, and lighting.	3	3
Shading	At least 90% of south-facing glazing will be shaded by vegetation or overhangs at noon on Jun 21st.	2	2
Energy Star Homes	EPA Energy Star for Homes (version 3 or above)	15	15
<b>Renewable Energy</b>			
Photovoltaic	30 percent of the power needs of the project	9	
	40 percent of the power needs of the project	12	
	50 percent of the power needs of the project	17	
	60 percent of the power needs of the project	20	
	70 percent of the power needs of the project	23	
	80 percent of the power needs of the project	25	
	90 percent of the power needs of the project	28	
	100 percent of the power needs of the project	31	
Wind Turbines	30 percent of the power needs of the project	9	
	40 percent of the power needs of the project	12	
	50 percent of the power needs of the project	17	
	60 percent of the power needs of the project	20	
	70 percent of the power needs of the project	23	
	80 percent of the power needs of the project	25	
	90 percent of the power needs of the project	28	
	100 percent of the power needs of the project	31	

<b>Irrigation and Landscaping</b>			
Water Efficient Landscaping	Limit conventional turf to < 25% of each lot (required)	0	5
	Limit conventional turf to < 50% of each lot	2	
	Non-conventional turf warm season turf <50% of required landscape area and/or low-water using plants allowed)	4	
	<b>Only California Native landscape that requires no or only supplemental irrigation</b>	<b>5</b>	
Water Efficient Irrigation Systems	Low precipitation spray heads< .75"/hr or drip irrigation	1	2
	<b>Weather based irrigation control systems combined with drip irrigation (demonstrate 20 reduced water use)</b>	<b>2</b>	
Recycled Water	Recycled water connection (purple pipe) to irrigation system on site	6	
Water Reuse	Gray water Reuse System collects Gray-water from clothes-washers, showers and faucets for irrigation use	12	
<b>Potable Water</b>			
Showers	<b>Water Efficient Showerheads (2.0 gpm)</b>	<b>2</b>	<b>2</b>
Toilets	<b>Water Efficient Toilets (1.5gpm)</b>	<b>2</b>	<b>2</b>
Faucets	<b>Water Efficient faucets (1.28gpm)</b>	<b>2</b>	<b>2</b>
<b>Employment Based Trip and VMT Reduction Policy</b>			
Bicycle Infrastructure	Provide bicycle paths within project boundaries.	TBD	
	Provide bicycle path linkages between residential and other land uses.	2	
	Provide bicycle path linkages between residential and transit.	5	
<b>Install EV Chargers</b>			
Electric Vehicle Recharging	Level 1 110 volt AC chargers	2 per charger	
	Level 2 240 volt AC Fast Chargers	5 per charger	
<b>Traffic Flow Improvements</b>			
	Signal Synchronization	1	
	Signal connected to existing ITS	3	
<b>Total Points</b>			<b>100</b>

Source: Greenhouse Gas Emissions Screening Table Review, City of Victorville Department of Development.