Table 2:Screening Table for Implementation of GHG Reduction Measures for
Commercial Development

Feature	Description	Assigned Point Values	Project Points
Reduction I	Measure R2E7: Commercial/Industrial Energy Efficiency Deve	elopment	
Building En	velope		
Insulation	2008 baseline (walls R-13; roof/attic R-30)	0 points	
	Modestly Enhanced Insulation (walls R-13, roof/attic R-38))	15 points	15
	Enhanced Insulation (rigid wall insulation R-13, roof/attic R-38)	18 points	
	Greatly Enhanced Insulation (spray foam insulated walls R-15 or higher, roof/attic R-38 or higher)	20 points	
Windows	2008 Baseline Windows (0.57 U-factor, 0.4 solar heat gain coefficient [SHGC})	0 points	
	Modestly Enhanced Window Insulation (0.4 U-factor, 0.32 SHGC)	7 points	
	Enhanced Window Insulation (0.32 U-factor, 0.25 SHGC)	8 points	8
	Greatly Enhanced Window Insulation (0.28 or less U-factor, 0.22 or less SHGC)	12 points	
Cool Roof			
	Modest Cool Roof (CRRC Rated 0.15 aged solar reflectance, 0.75 thermal emittance)	12 points	
	Enhanced Cool Roof (CRRC Rated 0.2 aged solar reflectance, 0.75 thermal emittance)	14 points	0
	Greatly Enhanced Cool Roof (CRRC Rated 0.35 aged solar reflectance, 0.75 thermal emittance)	16 points	
Air Infiltration	Minimizing leaks in the building envelope is as important as the insulation properties of the building. Insulation does not work effectively if there is excess air leakage.		0
	Air barrier applied to exterior walls, calking, and visual inspection such as the HERS Verified Quality Insulation Installation (QII or equivalent)	12 points	
	Blower Door HERS Verified Envelope Leakage or equivalent	10 points	
Thermal Storage of Building	Thermal storage is a design characteristic that helps keep a constant temperature in the building. Common thermal storage devices include strategically placed water filled columns, water storage tanks, and thick masonry walls.		
	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)	4 points	0
	Enhanced Thermal Mass (20% of floor or 20% 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)	6 points	

Feature	Description	Assigned Point Values	Project Points
	Enhanced Thermal Mass (80% of floor or 80% 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)	24 points	
Indoor Space	e Efficiencies		
Heating/	Minimum Duct Insulation (R-4.2 required)	0 points	
Cooling Distribution	Modest Duct insulation (R-6)	8 points	
System	Enhanced Duct Insulation (R-8)	10 points	0
	Distribution loss reduction with inspection (HERS Verified Duct Leakage or equivalent)	14 points	
Space Heating/	2008 Minimum HVAC Efficiency (EER 13/60% AFUE or 7.7 HSPF)	0 points	
Cooling Equipment	Improved Efficiency HVAC (EER 14/65% AFUE or 8 HSPF)	7 points	7
	High Efficiency HVAC (EER 15/72% AFUE or 8.5 HSPF)	8 points	
	Very High Efficiency HVAC (EER 16/80% AFUE or 9 HSPF)	12 points	
Commercial Heat Recovery Systems	Heat recovery strategies employed with commercial laundry, cooking equipment, and other commercial heat sources for reuse in HVAC air intake or other appropriate heat recovery technology. Point values for these types of systems will be determined based upon design and engineering data documenting the energy savings.	TBD	
Water Heaters	2008 Minimum Efficiency (0.57 Energy Factor)	0 points	
	Improved Efficiency Water Heater (0.675 Energy Factor)	14 points	
	High Efficiency Water Heater (0.72 Energy Factor)	16 points	16
	Very High Efficiency Water Heater (0.92 Energy Factor)	19 points	
	Solar Pre-heat System (0.2 Net Solar Fraction)	4 points	
	Enhanced Solar Pre-heat System (0.35 Net Solar Fraction)	8 points	
Daylighting	Daylighting is the ability of each room within the building to provide outside light during the day reducing the need for artificial lighting during daylight hours.		
	All peripheral rooms within building have at least one window or skylight	1 points	1
	All rooms within building have daylight (through use of windows, solar tubes, skylights, etc.)	5 points	
	All rooms daylighted	7 points	
Artificial	2008 Minimum (required)	0 points	
Lighting	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)	9 points	12

Feature	Description	Assigned Point Values	Project Points
	High Efficiency Lights (50% of in-unit fixtures are high efficacy)	12 points	
	Very High Efficiency Lights (100% of in-unit fixtures are high efficacy)	14 points	
Appliances	Star Commercial Refrigerator (new)	4 points	
	Energy Star Commercial Dish Washer (new)	4 points	4 (Refrigerator
	Energy Star Commercial Cloths Washing	4 points	(Itemgerator
Miscellane	us Commercial/Industrial Building Efficiencies		
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.	6 point	6
Shading	At least 90% of south-facing glazing will be shaded by vegetation or overhangs at noon on Jun 21st.	6 Points	0
Other	This allows innovation by the applicant to provide design features that increases the energy efficiency of the project not provided in the table. Note that engineering data will be required documenting the energy efficiency of innovative designs and point values given based upon the proven efficiency beyond Title 24 Energy Efficiency Standards.	TBD	
Existing Commercial building Retrofits	The applicant may wish to provide energy efficiency retrofit projects to existing commercial buildings to further the point value of their project. Retrofitting existing commercial buildings within the City is a key reduction measure that is needed to reach the reduction goal. The potential for an applicant to take advantage of this program will be decided on a case by case basis and must have the approval of the City Planning Department. The decision to allow applicants to ability to participate in this program will be evaluated based upon, but not limited to the following: Will the energy efficiency retrofit project benefit low income or disadvantaged communities? Does the energy efficiency retrofit project fit within the overall assumptions	TBD	
	in the reduction measure associated with commercial building energy efficiency retrofits?Does the energy efficiency retrofit project provide co-benefits important to the City?		
	Point value will be determined based upon engineering and design criteria of the energy efficiency retrofit project.		
Reduction I	Measure R2E9 and R2E10: New Commercial/Industrial Rene	wable Energy	y
	Solar Photovoltaic panels installed on commercial buildings or in collective		

Feature	Description arrangements within a commercial development such that the total power	Assigned Point Values	Project Points
	provided augments:		
	Solar Ready Roofs (sturdy roof and electric hookups)	2 points	
	10 percent of the power needs of the project	8 points	
	20 percent of the power needs of the project	14 points	
	30 percent of the power needs of the project	20 points	
	40 percent of the power needs of the project	26 points	NA
	50 percent of the power needs of the project	32 points	
	60 percent of the power needs of the project	38 points	
	70 percent of the power needs of the project	44 points	
	80 percent of the power needs of the project	50 points	
	90 percent of the power needs of the project	56 points	
	100 percent of the power needs of the project	60 points	
Wind turbines	Some areas of the City lend themselves to wind turbine applications. Analysis of the areas capability to support wind turbines should be evaluated prior to choosing this feature.		
	Wind turbines as part of the commercial development such that the total power provided augments:		
	10 percent of the power needs of the project	8 points	
	20 percent of the power needs of the project	14 points	0
	30 percent of the power needs of the project	20 points	
	40 percent of the power needs of the project	26 points	
	50 percent of the power needs of the project	32 points	
	60 percent of the power needs of the project	38 points	
	70 percent of the power needs of the project	44 points	
	80 percent of the power needs of the project	50 points	
	90 percent of the power needs of the project	56 points	
	100 percent of the power needs of the project	60 points	
Off-site renewable energy project	The applicant may submit a proposal to supply an off-site renewable energy project such as renewable energy retrofits of existing commercial/industrial that will help implement reduction measures associated with existing buildings. These off-site renewable energy retrofit project proposals will be determined on a case by case basis accompanied by a detailed plan documenting the quantity of renewable energy the proposal will generate. Point values will be based upon the energy generated by the proposal.	TBD	
Other Renewable Energy Generation	The applicant may have innovative designs or unique site circumstances (such as geothermal) that allow the project to generate electricity from renewable energy not provided in the table. The ability to supply other renewable energy and the point values allowed will be decided based upon	TBD	

Feature	Description	Assigned Point Values	Project Points
	engineering data documenting the ability to generate electricity.		
Reduction M	Aeasure R2E7: Warehouse Renewable Energy Incentive Pro	gram	
Warehouse Photovoltaic	This measure is for warehouse projects and involves partnership with Sothern California Edison and California Public Utilities Commissions to develop an incentive program for solar installation on new and retrofit existing warehouses. A mandatory minimum solar requirement for new warehouse space. Solar Photovoltaic panels installed on warehouses or in collective arrangements within a logistics/warehouse complex such that the total power provided augments:		
	Solar Ready Roof (sturdy roof and electric hookups)	2 points	
	10 percent of the power needs of the project	4 points	2
	20 percent of the power needs of the project	5 points	
	30 percent of the power needs of the project	7 points	
	40 percent of the power needs of the project	9 points	
	50 percent of the power needs of the project	11 points	
	60 percent of the power needs of the project	13 points	
	70 percent of the power needs of the project	15 points	
	80 percent of the power needs of the project	17 points	
	90 percent of the power needs of the project	19 points	
	100 percent of the power needs of the project	21 points	
Reduction N	Neasure R2WC1: R2WC-1: Per Capita Water Use Reduction (Commercial/I	ndustrial
Irrigation an	d Landscaping		
Water Efficient	Eliminate conventional turf from landscaping	0 points	
Landscaping	Only moderate water using plants	3 points	
	Only low water using plants	4 points	3
	Only California Native landscape that requires no or only supplemental irrigation	8 points	
Trees	Increase tree planting in parking areas 50% beyond City Code requirements	TBD	
Water Efficient	Low precipitation spray heads< .75"/hr or drip irrigation	1 point	
irrigation systems	Weather based irrigation control systems combined with drip irrigation (demonstrate 20 reduced water use)	5 points	5
Recycled Water	Recycled water connection (purple pipe)to irrigation system on site	5 points	5
Storm water Reuse Systems	Innovative on-site stormwater collection, filtration and reuse systems are being developed that provide supplemental irrigation water and provide vector control. These systems can greatly reduce the irrigation needs of a project. Point values for these types of systems will be determined based	TBD	

Feature	Description	Assigned Point Values	Project Point
	upon design and engineering data documenting the water savings.		
Potable Wa	ter		
Showers	Water Efficient Showerheads (2.0 gpm)	3 points	0
Toilets	Water Efficient Toilets/Urinals (1.5gpm)	3 points	3
	Waterless Urinals (note that commercial buildings having both waterless urinals and high efficiency toilets will have a combined point value of 6 points)	4 points	
Faucets	Water Efficient faucets (1.28gpm)	3 points	3
Commercial Dishwashers	Water Efficient dishwashers (20% water savings)	4 points	0
Commercial	Water Efficient laundry (15% water savings)	3 points	0
Laundry Washers	High Efficiency laundry Equipment that captures and reuses rinse water (30% water savings)	6 points	0
Commercial Water Operations	Establish an operational program to reduce water loss from pools, water features, etc., by covering pools, adjusting fountain operational hours, and using water treatment to reduce draw down and replacement of water.	TBD	
Program	Point values for these types of plans will be determined based upon design and engineering data documenting the water savings.		
Program		Policy	
Program	and engineering data documenting the water savings.	Policy	
Program Reduction I Compressed	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on	Policy 0 points	
Program Reduction I Compressed	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: days per week		0
Program Reduction I Compressed	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: days per week 5 days per week	0 points	0
Program Reduction I Compressed Work Week	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: days per week 5 days per week 4 days per week on site	0 points 4 points	0
Program Reduction I Compressed Work Week	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: days per week 5 days per week 4 days per week on site 3 days per week on site	0 points 4 points 8 points	0
Program Reduction I Compressed Work Week	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: days per week 5 days per week 4 days per week on site 3 days per week on site Car/vanpool program	0 points 4 points 8 points 1 point	0
Program Reduction I Compressed Work Week	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: days per week 5 days per week 4 days per week on site 3 days per week on site Car/vanpool program Car/vanpool program with preferred parking	0 points 4 points 8 points 1 point 2 points	
Program Reduction I Compressed Work Week	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: days per week 5 days per week 4 days per week on site 3 days per week on site Car/vanpool program Car/vanpool program with preferred parking Car/vanpool with guaranteed ride home program	0 points 4 points 8 points 1 point 2 points 3 points	
Program Reduction I Compressed	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: days per week 5 days per week 4 days per week on site 3 days per week on site Car/vanpool program Car/vanpool program with preferred parking Car/vanpool with guaranteed ride home program Subsidized employee incentive car/vanpool program	0 points 4 points 8 points 1 point 2 points 3 points 5 points	
Program Reduction I Compressed Work Week Car/Vanpools	and engineering data documenting the water savings. Measure R2T2: Employment Based Trip and VMT Reduction I Reduce the number of days per week that employees need to be on site will reduce the number of vehicle trips associated with commercial/industrial development. Compressed work week such that full time employees are on site: days per week 5 days per week 4 days per week on site 3 days per week on site Car/vanpool program Car/vanpool program with preferred parking Car/vanpool with guaranteed ride home program Subsidized employee incentive car/vanpool program Combination of all the above	0 points 4 points 8 points 1 point 2 points 3 points 5 points 6 points	

Feature	Description	Assigned Point Values	Project Points
	Showers and changing facilities	2 points	
	Subsidized employee walk/bike program	3 points	
	Note combine all applicable points for total value		
Shuttle/Transit	Local transit within ¼ mile	1 point	
Programs	Light rail transit within ½ mile	3 points	
	Shuttle service to light rail transit station	5 points	0
	Guaranteed ride home program	1 points	
	Subsidized Transit passes	2 points	
	Note combine all applicable points for total value		
CRT	Employer based Commute Trip Reduction (CRT). CRTs apply to commercial, offices, or industrial projects that include a reduction of vehicle trip or VMT goal using a variety of employee commutes trip reduction methods. The point value will be determined based upon a TIA that demonstrates the trip/VMT reductions. Suggested point ranges:	TBD	
l	Incentive based CRT Programs (1-8 points)		
	Mandatory CRT programs (5-20 points)		
Other Trip Reductions	Other trip or VMT reduction measures not listed above with TIA and/or other traffic data supporting the trip and/or VMT for the project.	TBD	
Reduction M	easure R2T4: Signal Synchronization and Intelligent Traffic	Systems	
Signal	Signal synchronization-1 point per signal	1 point/signal	
improvements	Traffic signals connected to ITS	3 points/ signal	1
Reduction M	easure R2T5: Renewable Fuel/Low Emissions Vehicles (EV	Charging Stat	tions)
Electric Vehicles	Provide public charging station for use by an electric vehicle (ten points for each charging station within the facility).	10 points	0
Reduction M	easure R2T6: Vehicle Trip Reduction Measures		
Mixed Use	Mixes of land uses that complement one another in a way that reduces the need for vehicle trips can greatly reduce GHG emissions. The point value of mixed use projects will be determined based upon traffic studies that demonstrate trip reductions and/or reductions in vehicle miles traveled	TBD	
Local Retail Near Residential (Commercial	Having residential developments within walking and biking distance of local retail helps to reduce vehicle trips and/or vehicle miles traveled. The point value of residential projects in close proximity to local retail will	TBD	
only Projects)	be determined based upon traffic studies that demonstrate trip reductions		

Feature	Description	Assigned Point Values	Project Points
	and/or reductions in vehicle miles traveled		
Reduction N	leasure R2W5: Construction and Demolition Debris Diversion	on Program	
Recycling of Construction/ Demolition Debris	Recycle 2% of debris (required) Recycle 5% of debris Recycle 8 % of debris Recycle 10% of debris Recycle 12% of debris Recycle 15% of debris Recycle 20% of debris	0 points 1 point 2 points 3 points 4 points 5 points 6 points	6
Reduction N Recycling	County initiated recycling program diverting 75% of waste requires coordination with commercial development to realize this goal. The		
	following recycling features will help the County fulfill this goal: Provide separated recycling bins within each commercial building/floor and provide large external recycling collection bins at central location for collection truck pick-up	2 points	2
	Provide commercial/industrial recycling programs that fulfills an on-site goal of 75% diversion of solid waste	5 points	
Total Points from	n Commercial/Industrial Project:		101