

CalEEMod Training Example Project – March 21, 2012 at SJVAPCD

TITLE: California Mixed Use Complex; AD: SJVAPCD; Climate Zone 3, Urban Op Yr 2013, PG&E

		LECTURING NOTES
Residential –Mid-Rise Apartments (2 nd -5 th floors)	100 Dwelling Units (1.6 acres)	ITE trip rate = low rise apt. that is baseline for CAPCOA GHG mitigation measures so user can apply
Retail – Supermarket (1 st floor)	45,000 sq ft	Zero out acres since same footprint as residential
Recreational – Quality Restaurant	5,000 sq ft	Mixed use credit can be applied under Mitigation section
Parking – Parking Lot	50,000 sq ft (1.15 acres)	New land use category – separate entry; more accurate calculation (assumes 400 sq ft/space)
<i>Modify construction phase</i>		Default phases can be changed – example, the developer wants to cut the schedule in half; changes will be highlighted in yellow reminding user to justify change under Remarks; hit “default” to re-populate with default values.
Demolition	0 days	Changing # of days will automatically change END date; need to change start date, then # days.
Site Preparation	2 days	
Grading	3 days	If using the CSV template, need to enter 4 digit year, 2 digit month, 2 digit day
Building Construction	110 days	
Paving	5 days	
Architectural Coatings	5 days	
<i>Remarks to justify change</i>		Project proponent reduced the construction schedule in half the time as the defaults.
Construction Equipment		Defaults based on one crew of equipment from construction survey. If reducing construction schedule in half, should double equipment. (<i>Remarks</i>) Download data to individual screen by using “import CSV” and browse for csv file (appropriate tab from excel saved as CSV); <i>NOTE: if using template, erase extra unused lines (down to 100).</i>
Material exported – site preparation	32 cu yds	User needs to input the amount of material imported and/or exported from the site; if phased, less trips. <i>NOTE: Trips+VMT tab provides default worker, vendor and hauling trips and assumes hauling truck carries 16 cu yd</i>
Material exported – grading	16 cu yds	
Operational – Water/Wastewater	100% aerobic	Can change (statewide) default to reflect site specific wastewater treatment (<i>Remarks</i>)
Vegetation – grassland	3.25 - 1 acres	Change initial to final acres; GHG reduction (annual only)
Sequestration – new Hardwood Maples	14 trees	Will provide GHG benefit
Construction mitigation - engine	Tier 3	All equipment. Benefit from default fleet mix. (<i>Remarks</i>)
Construction mitigation – watering	2 times/day	Automatic default percent reduction
Project setting	Urban	Dictates the allowable percent reduction (and cap)
Increase density	36 DU/acre	# DU/total project acre <i>developed</i> (100/2.75)
Increase diversity	Yes	Check box if mixed use project
Improve destination accessibility	0.2	Project in center city so not far to walk to work
Improve transit accessibility	0.01	Transit-oriented development in front of building
Integrate below market rate	10	For example: if 10% required by local law (10% of 100=10)
Improve pedestrian network	Project site and connecting offsite	
Implement NEV network	Applies low penetration	
Area	No hearths	
Energy – exceed Title 24	15% (LEED status)	
Alternative Energy	Check “on-site renewable energy” to account for 8,441 kW from San Joaquin solar panels on roof (medium size system)	