



FY 2016-2017 LCTOP Quantification Methodology GHG Calculator Tool

California Environmental Protection Agency
Air Resources Board

Project Name:	Gold Country Stage Fare Incentive Project	Contact Name:	Trisha Tillotson
Lead Agency:	Nevada County Department of Public Works	Contact Phone #:	530-265-1718
Date Completed:		Contact Email:	trisha.tillotson@co.nevada.ca.us
Project ID	Caltrans will provide upon approval		

Requires applicant input		Calculated field; no input required
Auto filled from Allocation Request		Additional documentation required

Applicant must input required fields from top down (i.e., first Project Category, then Project Type, etc.).
Required fields and descriptions are dependent on the inputs selected or entered.
User tips to provide clarification or suggested inputs may appear when input cells are selected.

Inputs	Required	Description
This section is used to determine the GHG emission reduction method and emission factors to apply.		
Project Type	Service Improvements	Yes
		Enter the project category that best represents the proposed project type; see Required Fields by Category . If applying for more than one project type, then the agency must submit multiple Allocation Requests and GHG Calculator tools.
Project Sub-Type	Transit vouchers	Yes
		Free or reduced-fare transit vouchers. GHG Emission Reductions = GHG Emissions of Displaced Autos
Region	County	Yes
		The region that best encompasses the geographic location for the proposed project type.
Sub region	Nevada	Yes
		The county where the majority of the service occurs.
Year 1 (Yr1)	2018	Yes
		The first year of service - funded by FY 2016-17 LCTOP funds.
Year F (YrF)	2020	Yes
		The final year of service - funded by FY 2016-17 LCTOP funds.
Useful Life	2	Calculated
		The number of years the service is funded by FY 2016-17 LCTOP funds.
This section is used to estimate the GHG emissions from displaced auto vehicle miles traveled (VMT).		
Service Type	Multi-modal	Yes
		The transit service (e.g., Bus, Light Rail, Heavy Rail, etc.) directly associated with the the proposed project. For projects that serve multiple services, select Multi-modal.
Yr1 Ridership	12,600	Yes
		The increase in unlinked passenger trips directly associated with the proposed project in the first year.



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YrF Ridership	12,600	Yes	The increase in unlinked passenger trips directly associated with the proposed project in the final year. If the ridership is not expected to change, the same value should be input for Yr1 and YrF.
Adjustment Factor (A)	0.67	Yes	Discount factor applied to annual ridership to account for transit-dependent riders. Use: documented project specific data or system average developed from a recent, statistically valid survey or default.
Length of Average Trip (L)	1.66	Yes	Annual passenger miles over unlinked trips directly associated with the proposed project.
GHG Emission Reductions	14.08	Calculated	The estimated GHG emission reductions in metric ton (MT) of carbon dioxide equivalent (CO ₂ e) from displaced auto VMT from the proposed project.
This section is used to estimate the net GHG emission reductions from new/expanded service or from the purchase of new zero-emission/hybrid vehicle(s).			
Vehicle Type		No	Not applicable for this project type.
Hybrid Vehicle		No	Not applicable for this project type.
Fuel Type		No	Not applicable for this project type.
Project Specific Emission Factor		No	Not applicable for this project type.
Model Year		No	Not applicable for this project type.
Annual VMT		No	Not applicable for this project type.
Annual Fuel		No	Not applicable for this project type.
GHG Emissions		Calculated	Not applicable for this project type.
Net GHG Reductions		Calculated	Not applicable for this project type.
This section is used to estimate the net GHG emission reductions from vehicle replacement or the GHG emission reductions from displaced fuel.			
Additional GHG Emission Reductions		Yes	



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Fuel Type		No	
Model Year		No	
Annual VMT		No	
Annual Fuel		No	
GHG Emissions		Calculated	
Net GHG Reductions		Calculated	
This section is used to gather the total Greenhouse Gas Reduction Fund (GGRF) funding requested or awarded.			
FY 2016-17 LCTOP GGRF Funds Requested	\$38,243.00	Yes	The amount of FY 2016-17 LCTOP dollars the applicant is requesting from Caltrans per State Controller's Office Eligible list for FY 2016-17.
Total LCTOP GGRF Funds Requested	\$38,243.00	Yes	The amount equal to FY 2016-17 LCTOP Funds Requested plus all LCTOP dollars from Caltrans that have previously been awarded to the same project and any future LCTOP dollars that the project plans to apply for. If no other LCTOP funds have been requested, the Total LCTOP GGRF Funds Requested will be the same amount as the FY 2016-17 LCTOP Funds Requested.
Total GGRF Funds Requested	\$38,243.00	Yes	The amount equal to the Total LCTOP Funds Requested plus all GGRF dollars that have previously been awarded to the same project and any other GGRF dollars that the project has or plans to apply for. If no other GGRF funds have been requested, the Total GGRF Funds Requested will be the same amount as the Total LCTOP GGRF Funds Requested.
This section calculates the greenhouse gas (GHG) emission reductions achieved by the proposed project.			
Total Project GHG Reductions	14.08	Calculated	Total GHG emission reductions (MTCO ₂ e) from the project during the useful life.
LCTOP Project GHG Reductions	14.08	Calculated	The prorated Total Project GHG Reductions based on the Total LCTOP GGRF funds over Total GGRF funds requested.