

Low Carbon Transit Operations Program (LCTOP)

PROJECT DESCRIPTION AND ALLOCATION REQUEST (SUMMARY)

Project Information:

Lead Agency:	City of Redondo Beach
Project Name:	Regional Smart Card Ticket Vending Machine Project
Project Type:	
<i>See Attachment A - Restricted - Cannot Enter</i>	
Description of Project (Short):	Operations funding for ticket vending machine project
Project Location:	City of Redondo Beach
Project Start Date (anticipated):	Ticket Vending Machine (TVM) - 2017
Project End Date (anticipated):	Ongoing

Funding Information:

Funding Year:	2015-16
Requested Amount of PUC 99313:	
Requested Amount of PUC 99314:	\$17,168
Total LCTOP Funding:	\$17,168
Total Project Cost:	\$ 17,168.00

Project Benefits:

Greenhouse Gas Benefits (off of worksheet)

Estimated GHG Reduction:	2173.43
Project Life:	2
Estimated Total GHG Reduction:	0

Disadvantaged Communities (DAC) Benefits:

Does your service area have a DAC?	No
Does the Project Benefit a DAC?	Yes
Identify the DAC Census Tracts?	Lawndale 6037604100, Los Angeles, Del Aire, 6037602200
Identify Specific DAC Benefit Criteria? <i>See Attachment B</i>	TP 2D: Project provides improved intercity rail (and related feeder bus service), commuter bus or rail transit connectivity for riders using stations or stops in a ZIP code that contains a disadvantaged community census tract or within ½ mile of a
Qualitative Description of DAC Benefit?	TVM Installation at new transit center that services 12 transit bus routes in the South Bay region, including Beach Cities Transit (BCT) services.
Describe the DAC Need Project Addresses?	Transit riders will be able to purchase passes and stored value for regional transit access pass electronic smart card system.
Total GGRF \$ Allocated to DAC	17,168

Co-benefit

Critical Air Pollution Reduction:	CO=1,817 kg/yr, NOX 173 kg/yr, ROG 157 kg/yr, PM10- 94 kg/yr, PM25 87 kg/yr
VMT Reduction:	3,966,979
Ridership Increase	3,408
Fuel Ues Reduction:	N/A
Energy Use Reduction:	N/A

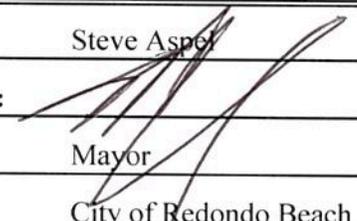


PROJECT DESCRIPTION AND ALLOCATION REQUEST (ALLOCATION)

Regional Entity:	
Project Lead: City of Redondo Beach	County: Los Angeles
Project Title: Regional Smart Card Ticket Vending Machine Project	

Project Lead:

I certify the scope, cost, schedule, and benefits as identified in the attached Allocation Request (Request) and attachments are true and accurate and demonstrate a fully funded operable project. I understand the Request is subject to any additional restrictions, limitations or conditions that may be enacted by the State Legislature, including the State's budgetary process and/or auction receipts. In the event the project cannot be completed as originally scoped, scheduled and estimated, or the project is terminated prior to completion, project lead shall, at its own expense, ensure that the project is in a safe and operable condition for the public. I understand this project will be monitored by the California Department of Transportation - Division of Rail and Mass Transportation.

Name:	Steve Aspel	
Signature:		
Title:	Mayor	
Agency:	City of Redondo Beach	
Date:	January 19, 2016	Amount: \$17,168

Contributing Sponsor(s):

*If this project includes funding from more than one project sponsor, the project lead above becomes the "recipient agency" and the additional contributing project sponsor(s) must also sign and state the amount and type of LCTOP funds (PUC Sections 99313 and 99314) contribution. Sign below or **attach a separate officially signed letter providing that information. If there is more than one contributing sponsor, please submit additional page, or a letter from the additional contributors.**

Name:		
Signature:		
Title:		
Agency:		
Date:		Amount:



See Attachment A for category of project (example: Category 1A Implement new or expanded transit service (for new routes or expansion of existing routes)).

Operations Projects		Capital Projects	
<input type="checkbox"/>	A1	<input type="checkbox"/>	Ai
<input type="checkbox"/>	A2	<input type="checkbox"/>	Aii
<input type="checkbox"/>	A3	<input type="checkbox"/>	Aiii
<input type="checkbox"/>	A4	<input checked="" type="checkbox"/>	Aiv
<input type="checkbox"/>	A5		
		<input type="checkbox"/>	B1
		<input type="checkbox"/>	B2
		<input type="checkbox"/>	B3
		<input type="checkbox"/>	B4
		<input type="checkbox"/>	Bi
		<input type="checkbox"/>	Bii
		<input type="checkbox"/>	Bii

Table 4: Project Summary

a) Project Description - Describe the project in your own words, using comprehensive overall project description regarding improvements to be made, increased level of service and performance goals.

The funds will be used for operations of a TVM that will be located at a new transit center which will be active in 2017. The transit center will be used by 4 municipal transit operators, and 1 local transit operator serving 12 bus routes. The transit center is adjacent to disadvantaged communities, and is a future Metro Rail Green Line station. The TVM will increase the electronic fare payment options for the users of the various transit systems. TVM sales are expected to increase ridership for BCT and other transit providers, resulting in a significant reduction in VMT and GHG emissions for the region. Metro's TVM/transit pass sales reports will be used to measure performance goals for the project.

b) Project Location - Describe the location of the project. Also provide an 8 1/2" X 11" project site map that shows the transit service area and project location. Use link to CalEPA website for information, <http://www.calepa.ca.gov/EnvJustice/GHGInvest/default.htm>.

The TVM will be installed at the new transit center located at 1501 Kingsdale Avenue, north of 182nd Street, and south of Artesia Blvd in Redondo Beach. The Long/Lat: 33°52'05.7"N 118°21'22.9"W

c) Project Life - For capital projects, state the Useful Life of the Project. For operations project state the number of months service will operate.

Capital:

Operations: TVM will begin operation in 2017 through life of equipment.

Low Carbon Transit Operations Program (LCTOP)

PROJECT DESCRIPTION AND ALLOCATION REQUEST (BENEFITS/OUTCOMES)

Table 5: Description of Major Benefits/Outcomes



a) Greenhouse Gas Reduction - Describe how this project will reduce greenhouse gases and any assumptions or data that support this description. For example, "The expanded transit service will reduce VMT and greenhouse gas emissions by replacing auto trips with transit trips. Initial estimates indicate that the expansion could add 50 commuter bus riders per day to replace an average auto trip of 10 miles each way." If available, please provide the expected amount of VMT reductions and greenhouse gas reductions.

The Redondo Beach transit center will provide a TVM to purchase various electronic fare types using the regional transit access pass, TAP, for multiple transit agencies. As part of Los Angeles Metro's project assessment, an Air Quality Report (Project F3428 April 2015) was prepared and includes methodologies consistent with the Transit and Connectivity Methods. The methodology factors (D, R, A, L, AA and LL) from the Air Quality Report were used to calculate VMT and GHG Emissions. Specifically, the TVM is a transit enhancement that will make it more convenient for passengers to purchase transit fare media, resulting in increased ridership. The ridership increase is expected to displace the average VMT by 3,996,979 miles and the net GHG Emissions benefit is 2,173.43 (see spreadsheet). The Transit Center's TVM is part of Metro's network of vending machines that will increase fare payment options in the South Bay region.

b) Increased Mode Share - Describe how this project will directly increase mode share.

The transit center will provide access to multiple transit agencies, bike lockers and pedestrian access to major commercial district and employment centers. The primary mode share will be an increase in transit, with secondary connection to transit by walking and biking modes.

c) Disadvantaged Communities (DAC) Project Criteria

See Attachment B for DAC Criteria to Evaluate Projects (example: Category 1B Project provides transit incentives to residents with a physical address in a disadvantaged community (e.g., vouchers, reduced fares, transit passes)).

Low Carbon Transportation Projects				Transit Projects			
<input type="checkbox"/>	1A	<input type="checkbox"/>	2A	<input type="checkbox"/>	1A	<input type="checkbox"/>	2E
<input type="checkbox"/>	1B	<input type="checkbox"/>	2B	<input type="checkbox"/>	1B	<input type="checkbox"/>	2F
<input type="checkbox"/>	1C	<input type="checkbox"/>	2C	<input type="checkbox"/>	1C	<input type="checkbox"/>	2G
<input type="checkbox"/>	1D			<input type="checkbox"/>	1D	<input type="checkbox"/>	2H
				<input type="checkbox"/>	1E	<input type="checkbox"/>	2I
				<input type="checkbox"/>	1F	<input type="checkbox"/>	
				<input checked="" type="checkbox"/>	2D		

d) Disadvantaged Communities (DAC) (if applicable*) - Describe how this project will directly benefit the DAC(s) within your service area in your own words. For agencies whose service area includes disadvantaged communities, at least 50 percent of the total moneys received shall be expended on projects that will benefit disadvantaged communities.

The project will directly benefit an adjacent disadvantaged community, and all transit riders by providing a nearby location to purchase various electronic fare products at the TVM. The transit center is within 1 mile of a disadvantaged community. Four municipal transit operators, and 1 local transit operator serving 12 bus routes provide both local and regional services. The transit center is adjacent to disadvantaged communities, and is a future Metro Rail Green Line station.

Low Carbon Transit Operations Program (LCTOP)

PROJECT DESCRIPTION AND ALLOCATION REQUEST (BENEFITS/OUTCOMES)

Table 5: Description of Major Benefits/Outcomes



- _____ Improved Safety
- _____ Improved Public Health
- _____ Reduced Operating/Maintenance Cost
- _____ Increase System Reliability
- _____ Other Benefits (describe below)

- _____ Coordination with Educational Institutions
 - _____ College/University _____ Grades K-12
- _____ Promotes Active Transportation (walking, biking)
- _____ Promotes integration with other modes of transportation

f) Co-Benefits - Describe benefits indicated above in d) and any other benefits not listed.

Table 6: Project Schedule

Capital Projects	
Begin Construction Phase (Contract Award)	
End Construction Phase (Contract Acceptance)	
Begin Vehicle/Equipment Order (Contract Award)	
End Vehicle/Equipment Order (Contract Acceptance)	
Begin Closeout Phase	
End Closeout Phase	

Operations Projects	
Begin expanded/enhanced transit services	Apr-17
End expanded/enhanced transit services	Ongoing
Begin Closeout Phase	Aug-18
End Closeout Phase	Oct-18

START DATE FOR LCTOP FUNDED PHASES MAY NOT PROCEED PROJECT APPROVAL LETTER.

Pre-construction costs (e.g design, environmental and right-a-way) are not eligible to be funded by LCTOP funds, they must be funded by other sources.

Low Carbon Transit Operations Program (LCTOP)

PROJECT DESCRIPTION AND ALLOCATION REQUEST (OPERATIONS DESCRIPTION)

Table 7: Operations Project Description

a) Describe the operating plan for this system.



The TVM will be installed in 2017, and the operation will be coordinated with Los Angeles County Metropolitan Transportation Authority.

b) Describe the fare structure for this system.

The TVM will provide the ability to load various fare products, and stored value on the regional transit access pass, TAP. The BCT fare structure is \$1 for adults and students, and 50 cents for senior/disabled/medicare riders. At this time the TVM can load stored value for BCT, and stored value and/or passes for other transit operators.

c) Describe the assumptions and process that were used to develop the ridership projections shown in the request.

The ridership projections were estimated to increase by 1% based on the average of Metro's ridership and BCT ridership for FY2015. Baseline ridership is calculated by using 2015 actual ridership and the projected percentage to determine 2016 projected ridership.

d) Describe the assumptions and process for how the operating cost projections were developed.

The regional transit agency, Los Angeles County Metropolitan Transportation Authority provided estimates of the annual operating costs to service the ticket vending machines. Final costs have not been determined at this time, however City estimates an obligation of approximately \$50,000 for annual operating costs.



Low Carbon Transit Operations Program TOTAL PROJECT COST AND FUNDING PLAN

The following Funding Plan has been reviewed and approved by the undersigned. It includes a complete list of funds for this project and is the total cost of the project, including LCTOP funds.

Person preparing this form (please type or print) Joyce Rooney	Phone: 310-318-0610 x2670	Date: 01/19/16
Approval Authority: Sign and date 1/19/16	Typed name and phone number: Steve Aspel, 310-372-1171	

Shaded fields are automatically calculated. Please do not fill these fields.

Proposed Total Project Cost								Project
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED	0	0	0	0	0	0	0	0
PS&E	0	0	0	0	0	0	0	0
R/W	0	0	0	0	0	0	0	0
CON	0	0	0	0	0	0	0	0
Veh/Equip Purchase	0	0	0	0	0	0	0	0
Operations/Other	0	0	50,000	0	0	0	0	50,000
TOTAL	0	0	50,000	0	0	0	0	50,000

Low Carbon Transit Operations Program (LCTOP)								
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED								0
PS&E								0
R/W								0
CON								0
Veh/Equip Purchase								0
Operations/Other			17,168					17,168
TOTAL	0	0	17,168	0	0	0	0	17,168

Funding Source: Local Transit Funding								
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED								0
PS&E								0
R/W								0
CON								0
Veh/Equip Purchase								0
Operations/Other			32,832					32,832
TOTAL	0	0	32,832	0	0	0	0	32,832

Funding Source:								
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED								0
PS&E								0
R/W								0
CON								0
Veh/Equip Purchase								0
Operations/Other								0
TOTAL	0							

Funding Source:								
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED								0
PS&E								0
R/W								0
CON								0
Veh/Equip Purchase								0
Operations/Other								0
TOTAL	0							





Low Carbon Transit Operations Program TOTAL PROJECT COST AND FUNDING PLAN

Funding Source:								
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED								0
PS&E								0
R/W								0
CON								0
Veh/Equip Purchase								0
Operations/Other								0
TOTAL	0	0	0	0	0	0	0	0

Funding Source:								
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED								0
PS&E								0
R/W								0
CON								0
Veh/Equip Purchase								0
Operations/Other								0
TOTAL	0	0	0	0	0	0	0	0

Funding Source:								
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED								0
PS&E								0
R/W								0
CON								0
Veh/Equip Purchase								0
Operations/Other								0
TOTAL	0	0	0	0	0	0	0	0

Funding Source:								
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED								0
PS&E								0
R/W								0
CON								0
Veh/Equip Purchase								0
Operations/Other								0
TOTAL	0	0	0	0	0	0	0	0

Funding Source:								
Component	Prior	FY	FY 2017	FY 2018	FY	FY	FY	Total
PA&ED								0
PS&E								0
R/W								0
CON								0
Veh/Equip Purchase								0
Operations/Other								0
TOTAL	0	0	0	0	0	0	0	0



Displaced Autos Details							New/Expanded Vehicle Details		
Yr1 Annual Ridership	YrF Annual Ridership	Adjustment (A)	Length (L)	Adjustment (AA)	Length (LL)	Annual Average VMT Displaced	Fuel Type	Engine MY	Annual VMT or Units of Fuel
334,880	338,288	0.83	16.00	0.90	2.00	3,966,979.02			
						-			
						-			
						-			
						-			
						-			
						-			
						-			
						-			



Useful Life	Old Service Vehicle or Displaced Fuel Details			Net GHG Benefits
	Additional Project Type	Fuel Type	Engine MY	
				Total GHG Emission Reductions (MTCO _{2e})
				2173.43





California Environmental Protection Agency



California Air Resources Board (ARB)
Greenhouse Gas Emission Reduction Calculator for the
California Department of Transportation (Caltrans)
Low Carbon Transit Operations Program (LCTOP)
Greenhouse Gas Reduction Fund
Fiscal Year 2015-16

Project Name:	Regional Smart Card Ticket Vending Machine Project
Project ID:	0

Inputs in **RED** must be filled out

Results	GHG Emissions (MTCO2e)	Description
Net GHG Benefits	2,173.43	Total GHG Emission Reductions (MTCO2e)
LCTOP Funds Requested (\$)	17,168.00	Funds requested per State Controller's Office Eligible list for FY 2015-16
Total LCTOP Funds Requested (\$)	17,168.00	Includes all LCTOP allocations the applicant intends to utilize (up to three FY allocations including FY 2015-16) for the proposed project. Use the State Controller's Office Eligible list for FY 2015-16 allocation funding amounts to estimate the subsequent funding allocations.
Total GGRF Funds Requested (\$)	17,168.00	Includes the Total LCTOP fund requested and any other GGRF Program monies
Total GHG Emission Reductions / Total GGRF Funds Requested (\$)	0.1266	The metric to be reported in the application.



BEACH CITIES TRANSIT • Lines 102 & 109



MAP LEGEND

Beach Cities Transit Lines

102 109 1

Timepoint

Connections to Other Transit Service:

- Metro Local & Rapid Bus
- BBB (Santa Monica Big Blue Bus)
- CCB (Culver CityBus)
- CE (LADOT Commuter Express)
- G (Gardena Municipal Bus Lines)
- LAX (Free Shuttles to Terminals)
- LW (Lawndale Beat)
- PV (Palos Verdes Peninsula Transit Authority)
- T (Torrance Transit)
- TR (Torrance Rapid)

M Metro Green Line & Station

Bus Stops (not shown on main map)

- Beach Cities Transit and Others
- Other Buses

Icons:

- ✈ Airport
- 🏛 Civic/Government Building
- 🏥 Medical Office/Hospital
- 🌳 Park
- 📍 Place of Interest
- 🎓 School/College
- 🛍 Shopping Center/Mall

0 1/2 mile 1 km

Designed by CHK America



