# **Lead Agency Information**

Lead Agency Name:	Sonoma County Transit	Sonoma County Transit					
Address:	355 West Robles Avenue	355 West Robles Avenue					
City, State, Zip Code:	Santa Rosa, CA 95407	Santa Rosa, CA 95407					
County:	Sonoma County	Sonoma County					
<b>Regional Entity:</b>	Metropolitan Transporta	Metropolitan Transportation Commission					
Title VI Attached:	Yes	Title VI Approval Date:	08/15/19				

Allocation Request Prepared by						
Name:	Bryan Albee					
Title: Transit Systems Manager						
<b>Phone #:</b> 707-585-7516						
E-mail: <u>bkalbee@sctransit.com</u>						
	Authorized Agent					
Name:	Johannes J. Hoevertsz					
Title: Director of Transportation & Public Wor						

johannes.hoevertsz@sonoma-county.org

707-565-2231

Phone #:

E-mail

Conta	Contact (if different than "Prepared by")						
Name:	Steven Schmitz						
Title:	Transit Specialist II						
Phone #:	707-585-7516						
E-mail:	steven@sctransit.com						
	Legis	lative	Distri	ct Nui	mbers		
Assembly*	:	10	4	2			
Senate*:	Senate*: 3 2 6						
Congressio	nal*:	5	2				

\*if you have additional Districts, please provide a separate attachment

# **Project Summary**

<b>Name:</b> No n 180 charact		Purchase C	ne 35-Foot B	attery-	Electri	c Trai	nsit Bus					
<b>Description</b> No more the characters.	` '	Purchase of one 35-foot electric-powered bus that will be available for deployment on local and intercity routes serving the cities of Santa Rosa, Rohnert Park, Cotati and Petaluma.										
Туре:	C	Capital										
Sub-Type	P	Purchase of replacement zero-emission vehicle(s) (may include equipment/infrastructure)										
Total Years	s of Rollover:				0	Rem	aining Years of Ro	ollover	:		0	
Start date (	(anticipated) :						End date (anticip	ated) :				
	Plea	<u>ise provid</u>	e specific aro	e <mark>a inf</mark> o	ormatio	on for	the project in the	e Lat-l	Long tab	•		
<b>Project Lif</b> service will		projects, s	tate the proje	ct usef	ùl life i	n yea	rs. For operation p	rojects	state the	num	ber of mo	nths a
	Capital:		12 Years				Opera	tions:				
Funding:	993	313:	\$665,243		99	9314:	\$58,374		Tot	al:	\$723,6	17
Approved l	LONP:		No			LONI	• Approval date:					

<b>Funding Information</b>								
<b>LCTOP</b> Allocation Year	Prior	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	Total	
PUC 99313 Amount:		\$665,243					\$665,243	
PUC 99314 Amount:		\$58,374					\$58,374	
Total LCTOP Funds:	\$0	\$723,617	\$0	\$0	\$0	\$0	\$723,617	
Other GGRF:							\$0	
Other Funds:		\$243,040					\$243,040	
Total Project Cost:	\$0	\$966,657	\$0	\$0	\$0	\$0	\$966,657	
Lead Agency:	Sonoma Cou	unty Transit			Amoun	t: PU	C Funds Type:	
Contact Person:	Steven Schn						99313	
<b>Contact Phone #:</b>	707-585-751	16			\$58,374	4	99314	
Contact E-mail:	steven@sctr	ansit.com						
Contributing Sponsor:	Metropolita	n Transporta	tion Commis	ssion	Amoun	t: PU	<b>PUC Funds Type:</b>	
Contact Person:	Anne Speva	ck			\$665,243		99313	
Contact Phone #:	415-778-661	1					99314	
Contact E-mails:	aspevack@	bayareametr	o.org					
<b>Contributing Sponsor:</b>	b				Amoun	t: PU	C Funds Type:	
<b>Contact Person:</b>							99313	
<b>Contact Phone #:</b>							99314	
Contact E-mails:								
Contributing Sponsor:	с				Amoun	t: PU	C Funds Type:	
Contact Person:							99313	
Contact Phone #:							99314	
Contact E-mails:								
Contributing Sponsor:	[				Amoun	t: PU	C Funds Type:	
Contact Person:							99313	
Contact Phone #:							99314	
Contact E-mails:								

Total FY 21-22 LCTOP Funding \$723,617

**Fully Funded Project:** Provide a description of all the funds that will be used to complete this project and how LCTOP funds will not supplant other funding sources. Include the project ID and awarded funding amount from prior rollover years.

The budget anticipates that this project will be fully funded with a combination of LCTOP funds and Transportation Development Act funds. LCTOP funds will not be used to supplant other funds to complete this project.

**Project Changes:** If this is a rollover project with an approved CAP that added funds into the project in a previous year, provide the CAP approval date, project ID, and amount transferred. The amount should be reflected in the 'Prior' column

N/A

			Fundir	ng Plan				
		Р		al Project Cos	st			
Component	Prior	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	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	\$966,657	\$0	\$0	\$0	\$0	\$0	\$966,657
Operations/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$966,657	\$0	\$0	\$0	\$0	\$0	\$966,657
Low Carbon Transit Op	orations Prog	om (I CTOP						
Component	Prior	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	Total
PA&ED	1 1101	1 1 21-22	1122-25	1125-24	1127-25	1125-20		\$0
PS&E								\$0
R/W								\$0
CON								\$0
Veh/Equip Purchase		\$723,617						\$723,617
Operations/Other								\$0
TOTAL	\$0	\$723,617	\$0	\$0	\$0	\$0	\$0	\$723,617
	Turnersentet							,
Funding Source: Component	Prior	<mark>on Developn</mark> FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	Total
PA&ED	<b>F</b> FIOF	ГҮ 21-22	<u>гү 22-23</u>	<u>г ү 23-24</u>	ГҮ 24-25	F I 25-20		\$0
PS&E								\$0
R/W								\$0
CON								\$0
Veh/Equip Purchase		\$243,040						\$243,040
Operations/Other		+,						\$0
TOTAL	\$0	\$243,040	\$0	\$0	\$0	\$0	\$0	\$243,040
	**	+,	**	**	÷*	**	4 V	+,
Funding Source:	Derion	EV 21 22	EV 22 22	EV 22 24	FY 24-25	EV 25 26	FY 26-27	Total
Component PA&ED	Prior	FY 21-22	FY 22-23	FY 23-24	ГҮ 24-25	FY 25-26		\$0
PS&E								\$0
R/W								\$0 \$0
CON								\$0 \$0
Veh/Equip Purchase								\$0
Operations/Other								\$0 \$0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		**			**	**	÷.	
Funding Source:	Deter	EV 21 22	EV 22 22	EV 22 24	EV 24 25	EV 25 26	FY 26-27	Total
Component PA&ED	Prior	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	T 1 20-27	10ta1 \$0
PS&E								\$0 \$0
R/W								
K/ W CON								
Veh/Equip Purchase								<u> </u>
Operations/Other								<u> </u>
_	¢0.	¢0	¢0.	¢0.	¢0	<u>ф</u> о	00	
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

# **Funding Plan**

Funding Source:								
Component	Prior	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	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 \$0
Funding Source:								
Component	Prior	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	Total
PA&ED	11101	1 1 21-22	1 1 22-23	1 1 25-24	<b>F1 24-2</b> 5	F I 25-20		\$0
PS&E								\$0
R/W								\$0 \$0
CON								\$0
Veh/Equip Purchase								\$0
Operations/Other								\$0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Funding Source:								
Component	Prior	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	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
	Ψ0	ΨΫ	ΨΫ	ψŪ	ψŪ	ψV	ΨΫ	ψv
Funding Source:								
Component	Prior	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	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 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	Total
PA&ED								\$0
PS&E								\$0
R/W								\$0
CON								\$0 \$0
Veh/Equip Purchase								\$0 60
Operations/Other		<b>.</b>		¢0	¢.0			\$0 ©0
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

# **Project Information**

1) **Project Description** - Provide a comprehensive project description. For operations projects, include: number of trips, span, frequency improvements, and number of days of operation. For capital projects, include: product specifications and identify <u>all LCTOP funded components</u>. *No more than 12 lines*.

LCTOP funding is being requested by Sonoma County Transit (SCT) to assist with the purchase of one 35-foot electricpowered bus that will be available for deployment on local and intercity routes providing service in the cities of Santa Rosa, Rohnert Park, Cotati and Petaluma. This project is developed with the assumption that SCT will be purchasing the 35-foot electric-powered buses from BYD which will replace one CNG bus. The low-floor bus will be 35-feet in length and equipped with 32 seats, 2 ADA-compliant wheelchair securement areas, security cameras, AVL systems and have a operating range of approximately 200 miles on a single charge. The electric-powered bus will be charged utilizing existing charging stations located at SCT's bus yard. Also, a remote charging station is planned for installation at the Petaluma Transit Mall located at the southern terminus of intercity routes 44 and 48, which will effectively expand the operating range of the 35-foot electric bus beyond 200 miles.

2) **Project Planning** - Provide a detailed explanation of the project planning process and how it was designed to avoid substantial burden on any low- income, disadvantaged, and vulnerable populations. Include any public outreach efforts, engagement events, community input, and workshops. *No more than 10 lines.* 

The purchase of electric-powered buses for Sonoma County Transit's fixed-route fleet is included in the current version of its Short Range Transit Plan. This project was designed to avoid substantial burden on any low income disadvantaged communities by replacing older CNG vehicles with new clean air electric buses, reducing air contaminants along the corridors. The 35-foot electric-powered bus to be purchased will be deployed on Sonoma County Transit's local and intercity routes in the cities of Santa Rosa, Rohnert Park, Cotati and Petaluma based only on current operating range limitations for electric-powered buses. As the operating range for electric-powered buses expands, SCT will deploy its electric-powered buses on additional intercity routes, as determined feasible.

**3) Project Costs** - Provide an itemized breakdown of project components and describe how the cost estimations were developed. Total costs must correspond to the Funding Information section above. *No more than 12 lines.* 

As mentioned previously under project description, LCTOP funding is being requested by Sonoma County Transit (SCT) to assist with the purchase of one 35-foot electric-powered buses that will be available for deployment on local and intercity routes providing service to the cities of Santa Rosa, Rohnert Park, Cotati and Petaluma. The low-floor bus will be 35-feet in length and equipped with 32 seats, 2 ADA-compliant wheelchair securement areas, security cameras, AVL systems and have an operating range of approximately 200 miles on a single charge. This requested LCTOP funding will assist with the purchase of a third 35-foot electric-powered bus for SCT's fixed-route fleet. With the assumption for this project that SCT will be purchasing the 35-foot electric-powered buses from BYD, the cost is estimated to be \$966,657 (including options and delivery) based on SCT's recent electric-powered bus procurements from BYD.

### **Agency Information**

**4)** Agency Fare - Describe the fare structure for your system and how the project will affect that structure if at all. All of Sonoma County Transit's local routes are currently fare-free. Cash fares on SCT's intercity routes depend on distance traveled and currently range from \$1.50 to \$4.80 for adults, \$1.25 and \$4.55 for youth, and \$0.75 and \$2.40 for senior/disabled. This project will not affect SCT's current fare structure.

5) Agency Service - Describe the transit service provided and how the project plays into the overall operations. Include how the COVID-19 pandemic has impacted transit service related to the project. *No more than 10 lines.* 

Sonoma County Transit (SCT) currently operates a total of eighteen (18) local and intercity routes. Local service is provided within the cities of Cloverdale, Healdsburg, Windsor, Sebastopol, Rohnert Park, Cotati, Sonoma, the Sonoma Valley area and the Lower Russian River area. SCT's 35-foot electric-powered bus will be available for deployment on SCT's local and intercity routes in the cities of Santa Rosa, Rohnert Park, Cotati and Petaluma. During FY 2020-21 SCT provided a total of 358,411 fixed-route passenger trips and 22,539 ADA paratransit trips. With the outbreak of COVID-19 and major decreases in ridership, some of SCT's underperforming intercity routes were suspended and the schedules for most core intercity routes were reduced. These service reductions have continued into FY 2021-22. However, ridership is anticipated to gradually increase toward pre-pandemic levels over the next fiscal year and service restoral on SCT's local and intercity routes will be necessary.

# **Project GHG Benefits**

Greenhouse Gas Reductions - Describe qualitatively how this project will reduce greenhouse gas emissions.

Sonoma County Transit deploys buses that are fueled by compressed naturual gas (CNG) on its local and intercity routes operated in Santa Rosa, Rohnert Park, Cotati and Petaluma. This project will replace one CNG-fueled bus with one zero-emission electric-powered bus. The deployment of an additional zero-emission electric-powered bus on these routes will help reduce greenhouse gas emissions.

**Greenhouse Gas Reductions -** Please provide quantitative information requested below and explanations supporting the data provided.

*	Value	Explanation
<b>Year 1 (Yr1) -</b> <i>First year of service, or year that capital improvements will be completed.</i>	2023	
<b>Year F (YrF) -</b> Final year that the service is funded or the final year of useful life for capital improvements.	2035	
<b>Project Yr. 1 Ridership Increase</b> - Estimated annual ridership <u>contributed by the new service</u> <u>or capital improvement</u> in Yr1. Refer to page 4 of the Supplemental Guidance.		N/A
<b>Project Yr. F Ridership Increase -</b> <i>Estimated</i> <i>annual ridership <u>contributed by the new service</u> <u>or capital improvement</u> in YrF. Refer to page 5 of the Supplemental Guidance.</i>		N/A
<b>Adjustment (A) -</b> <i>Adjustment factor to account for</i> <i>Choice Riders. You may use defaults values listed on</i> <i>page 18 of the Supplemental Guidance.</i>	0.705	Adjustment factor for intercity service per CARB's recommended default value. (CB- PT)
<b>Trip Length (L) -</b> <i>Length (miles) of average auto</i> <i>trip reduced or average passenger trip length. You</i> <i>may use defaults values list ed on pages 19-24 of the</i> <i>Supplemental Guidance.</i>	21.83	Average trip length for intercity service per CARB's recommended default value. (CB- PT)
Project Useful Life	12	This is calculated based on the values above.
Total Project Ridership Increased	0	This is calculated based on the values above.
Total Project VMTs Reduced	0	This number is calculated based on the values above.
Total Project GHG Emission Reductions (MTCO2e)	852.36	This number is calculated based on the values from above and the <b><u>QM-Tool tab</u></b> .
LCTOP Project GHG Emission Reductions (MTCO2e)	852.36	This number is calculated based on the values from above and the <b><u>OM-Tool tab</u></b> .

### **Project Benefits**

Job Support Benefits (Refer to LCTOP Guidelines and CARB Co-Benefits website for more information)

Primary Project Activity (select from drop-down)	Procurement of buses
% of Project Budget Associated with Primary Activity	100%
Other Project Activity (select from drop-down)	
% of Project Budget Associated with Other Activity	
Other Project Activity (select from drop-down)	
% of Project Budget Associated with Other Activity	

**Travel Cost Savings Benefits** 

Refer to pages 5-6 on the Supplemental Guidance.

Traver cost savings benefits	Refer to puges 5 0 on the Suppremental Guidance.				
	Value	Explanation			
<b>Baseline Average One-Way Fare Cost</b> (\$/One-Way Trip/Rider) (Average fare per way prior to project implementation)	\$2.10	SCT's average standard fare per trip associated with this project (pre- COVID). The average intercity fare on SCT is based on a two-zone fare, which costs \$2.10 and assumes payment of an adult fare for the trip.			
<b>New Average One-Way Fare Cost</b> (\$/ <b>One-Way Trip/Rider</b> ) (Average fare per way resulting from project implementation)	\$2.10	The project will not impact SCT's current fare structure.			
<b>Transit Facility Parking Cost</b> (\$/Roundtrip/Rider) (Average cost to park to use transit associated with project)		(ex. The average transit facility parking cost is \$5 per day)			
<b>Avoided Parking Cost (\$/Roundtrip/Rider)</b> (Average avoided parking cost associated with project)		(ex. The average parking cost in the project area is \$15 per day)			
<b>Avoided Toll Cost (\$/Roundtrip/Rider)</b> (Average avoided toll cost associated with project)		(ex. The average tolling cost in the project area is \$10 per day)			

Co-Benefits - Check all additional Benefits/Outcomes.

<u>x</u> Improved Safety Coordination with Educational			
x Improved Public Health	College Grades K-12		
x Reduced Operating/Maintenance Costs	<b>Promotes Active Transportation</b>		
x Increase System Reliability	x Promotes Integration w/ other modes		

**Co-Benefits** - Describe benefits selected above and other benefits not listed.

This project will improve public health through the deployment of a new zero-emission electric-powered bus on Sonoma County Transit's local and intercity routes serving the cities of Santa Rosa, Rohnert Park, Cotati and Petaluma. The deployment of an additional zero-emission electric-powered bus will reduce greenhouse gas emissions, and help reduce air pollution and related public health issues. Also, overall maintenance costs for the new electric-powered bus will be deployed on routes be less than the costs for a CNG-fueled bus. In addition, because the new electric-powered bus will be deployed on routes operated in the cities of Santa Rosa, Rohnert Park, Cotati and Petaluma serving SMART commuter rail stations, it will help promote the intergration of bus and rail service in Sonoma County. Furthermore, overall system reliability and safety will be improved with the addition of the electric-powered bus because upgraded AVL and security camera systems will be included on the new bus.

### **Priority Populations Benefits**

Does your Agency's Service Area have a	Does your Agency's Service Area have a Disadvantaged Community? (as defined by SB 535)Yes						
Is the project located within the boundaries of a disadvantaged community census tract?							
Is the project located within the boundar	ries of a low-income community census tract?	Yes					
Is the project located outside of a disadvantaged community, but within 1/2 mile of a disadvantage community and within a low-income census tract?							
Amount of FY 21-22 funds benefitting Disadvantaged Communities : \$							
<b>Priority Population Community Engagement: Identify the specific assessment for the Community</b> <b>Engagement Co-benefit (High, Medium, Low):</b> * <u>See pages 26-28 Supplemental Guidance for more</u> <i>information</i>							
<u>Method:</u> Select the method your agency used for identifying an important community or household need.	C. Where direct engagement is infeasible, look at the individual factors in CalEnviroScreen that are most impacting an identified disadvantaged or low-income community (i.e., factors that score above the 75th percentile), and confirm that the project will reduce the impacts of at least one of those factors.						
Specific Common Need: Make a selection only if letter D is selected above.							

**Priority Populations Community Needs Description:** Expound on the selections above in **Method** and **Specific Common Need** to describe the process that your agency used to identify important community needs. Provide details of any public outreach efforts, engagement events, community input, and workshops.

After reviewing the individual factors in CalEnviroScreen 3.0 for DAC census tract 6097153200, it was determined that Asthma had a percentile score of 80 and, therefore, a higher relative burden among residents. This project will purchase a new zero-emission busfor deployment on routes providing service within this DAC census tract, which will reduce the impacts of Asthma on residents.

### **Priority Populations Benefits**

	Project provides benefits to a DAC, a LIC/HH, and a LIC/HH 0.5mi from a DAC
Priority Population Benefit: Select	A. Project reduces criteria air pollutant or toxic air contaminant
the benefit your project provides to the	emissions.
community or household.	

**Priority Population Benefit:** Based on the selections above, explain in greater detail how the project will provide benefits to the priority populations in your service area.

The project will benefit the residents in DAC census tract 6097153200 by improving public health through the deployment of new a zero-emission electric-powered bus on Sonoma County Transit's local and intercity routes serving the cities of Santa Rosa, Rohnert Park, Cotati and Petaluma. The deployment of an additional zero-emission electric-powered bus in this disadvantaged community will also help to reduce greenhouse gas emissions, air pollution and related public health issues.

SB 1119 Project Criteria: See page 7 of the LCTOP Supplemental Guidance for more information.

Is the project a transit fare subsidies or network and fare integration technology improvements, including, but not limited to, discounted or free student transit passes

Is the project a purchase of zero-emission transit buses and/or purchase and installation of supporting infrastructure?

Is the project a new or expanded transit service that connects with transit service serving a disadvantaged communities?

**SB 1119 Project Criteria**: If this is a <u>new or expanded service project</u>, explain how it connects to a transit service that serves a Disadvantaged Community.



Benefits Calculator Tool for the Low Carbon Transit Operations Program

California Climate Investments

Note to applicants:

### Step 2a: Identify the Project Type. Step 2b: Input Project-specific Information.

Project Name:

Project Info Inputs	Input	Paguirod	Description
Project Info Inputs	Input	Required	Description
Project Type	Purchase of replacement zero-emission vehicle(s) (may include equipment/infrastructure)	Required Input	For the purposes of this quantification, eligible LCTOP projects fall into four project types. Select the project type that best describes this component.
Quantification Method	Technology Conversion	Automated	Emission Estimates = Emissions from Baseline Vehicle – Emissions from New Vehicle
Service Type	Intercity/Express Bus (Long Distance)	Required Input	The transit service (e.g., Intercity/Express Bus (Long Distance), Light Rail, Vanpool, etc.) directly associated with the proposed project. For projects that serve multiple services, select Multi-modal.
Type of Region	County	Required Input	The type of region that best encompasses the geographic location for the proposed project type.
Region	Sonoma	Required Input	The County or Air Basin where the majority of the service occurs.
Year 1 (Yr1)	2023	Required Input	The first year of service that the rolling stock acquisition will support.
Year F (YrF)	2035	Required Input	The final year of service that the rolling stock acquisition will support.
Useful Life (yrs)	12	Calculated	The useful life of the rolling stock. Limited to up to 50 years.
	stimate the emission and cost reductions from	m displaced auto vel	nicle miles traveled (VMT).
Displaced Auto VMT Inputs	Input	Required	Description
Yr1 Ridership		Not Required	Not applicable for this project type.
YrF Ridership		Not Required	Not applicable for this project type.
Adjustment Factor		Not Required	Not applicable for this project type.
Length of Average Trip (mi)		Not Required	Not applicable for this project type.
Passenger VMT Reductions (mi)	0	Not Applicable	Not applicable for this project type.
GHG Emission Reductions (MTCO <sub>2</sub> e)	0	Not Applicable	Not applicable for this project type.
This section is used to e	stimate the net emission reductions from nev	v service or from the	purchase of new zero-emission/hybrid vehicle(s).
New Service Vehicle Inputs	Input	Required	Description
Vehicle Type	Transit Bus	Required Input	The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) that will operate the new service or will be procured.
Engine Tier		Not Required	Not applicable for this project type.
Engine Horsepower		Not Required	Not applicable for this project type.
Fuel Type	Electric	Required Input	The fuel type (e.g. Electric, Diesel, etc.) of the vehicle to be acquired.
Hybrid Vehicle	N/A	Not Required	Not applicable for this project type.

Product Synchic GHG Enclosion Product Enclosion Product Enclosion Product Enclosion Product Enclosion Product Annual VMT (miyr)         Calculation (MO)         If used enclosion annual VMT of the vehicle to be acquired (e.g., 72,000 miyr), annual VMT (miyr)           Annual VMT (miyr)         40,000         Required input Not Required Not Required Not Required Not Required Not Required Not explicable for the project type.         Image: Signal Signa				
Emission Fractor (QCOS-MJ)         Calculated (QCOS-MJ)         Cal	Model Year	2023	Required Input	The engine model year of the vehicle to be acquired.
Annual Fuel Use         Not Required         Not Required         Not applicable for this project type.           Annual Remembel Gringry Generated (WTCV)         Not Required         Not applicable for this project type.           GHC Emission (MTCV)         141         Calculated (MTCV)         The estimated GHG emission (MTCC2e) of the vehicle to be acquired. (MTCV)           GHC Emission (MTCV)         141         Calculated (MTCV)         The estimated GHG emission (MTCC2e) of the vehicle to be acquired. (MTCV)           GHC Emission (MTCV)         Imput         Required (MTCV)         Peerspice (MTCV)           GHC Emission (MTCV)         Imput         Required (MTCV)         Peerspice (MTCV)           GHC Emission (MTCV)         The network Generation (MTCV)         Not Required (MTCV)         Not Required (MTCV)           Vehicle Type         Than att Bus         Required (MTCV)         Not Required (MTCV)         Not Required (MTCV)           Vehicle Type         CNG         Required Input         The left type (e.g., electric, dired) to the baseline vehicle(s).           Types Section (GCV)         Not Required Input         The vehicle of this project type.           Not Required Input         The extended emission (MTCV)         The section tare of this project type.           Annual VWT         40,000         Required Input         The estemated annual VWT of the baseline vehicle(s). </td <td>Project-Specific GHG Emission Factor (gCO2e/MJ)</td> <td></td> <td>Optional Input</td> <td></td>	Project-Specific GHG Emission Factor (gCO2e/MJ)		Optional Input	
Annual Renewable Energy Generated (WrWy)     Not Required     Not Required       Annual Renewable Energy Generated (WrWy)     Not Required     Not Required     Net applicable for the selected fuel type.       GHS Emissions     141     Calculated     The estimated GHG emissions (MTCO20) of the vehicle to be acquired.       This section is used to estimate the net emission reductions from vehicle replacement as a result of the proposed project.     Baseline Vehicle       Baseline Vehicle     Input     Required     Description       Vehicle Type     Trenast Bus     Required Input     Net applicable for this project type.       Engine Horsepower     Not Required     Net applicable for this project type.       Fuel Type     CNG     Required Input     The fuel type (e.g., electric, dissel, elc.) of the baseline vehicle(s).       Model Year     2010     Required Input     The average engine model year(s) of the baseline vehicle(s).       Project-Specific GHG Emission Factor (MCO2)     Optional Input     The estimated GHG emissions (MTCO22) of the vehicle to be acquired.       Annual Fuel Use     Not Required     Not Required Input     The estimated GHG emissions (MTCO22) of the vehicle(s).       Reductions (MTCO2)     994     Calculated     The estimated GHG emissions (MTCO22) of the vehicle to be acquired.       The settenated out out out average engine model project.     Settenated fuel engines.     Settenated Fuel Projecet.	Annual VMT (mi/yr)	40,000	Required Input	The estimated annual VMT of the vehicle to be acquired (e.g., 72,000 mi/yr).
Energy Constraint         Not Required         Not applicable for the selected fuel type.           GHG Emissions (MTCO_en)         141         Calculated         The estimated CHG amissions (MTCO2e) of the vehicle to be acquired.           This section is used to estimate the net emission reductions from vehicle replacement as a result of the proposed project.         Beaching Vehicle         Input         Required         Description           Section Vehicle         Input         Required         Not applicable for this project type.         Input         Not applicable for this project type.           Engine Terr         Not Required         Not applicable for this project type.         Not applicable for this project type.           Fuel Type         CNG         Required Input         The attrype (e.g., electric, classi, etc.) of the baseline vehicle(s).           Project-Specific GHG         No         Not Required Input         The average engine model year(s) of the baseline vehicle(s).           Project-Specific GHG         Optional Input         True average engine model year(s) of the baseline vehicle(s).           Required Input         Required Input         The estimated arroual VMT of the baseline vehicle(s).           Required Input         Required Input         The estimated arroual VMT of the baseline vehicle(s).           Required Input         Required Input         The estinsted arroual VMT of the baseline vehicle(s).      <	Annual Fuel Use		Not Required	Not applicable for this project type.
MTCO_e)         If each classifier         The estimated GHS ensistons (MICO2e) of the vehicle to be acquired.           This section is used to estimate the net emission reductions from vehicle replacement as a result of the proposed project.         Baseline Vehicle         Input         Required Input         Description           Baseline Vehicle         Input         Required Input         Not applicable for this project type.           Engine Ter         Not Required         Not applicable for this project type.           Fuel Type         CNG         Required Input         Not applicable for this project type.           Fuel Type         CNG         Required Input         Not applicable for this project type.           Fuel Type         CNG         Required Input         The fuel type (e.g., electric, diseel, etc.) of the baseline vehicle(s).           Project-Specific GHG         No         Not Required         Not applicable for this project type.           Model Year         2010         Required Input         The average engine model year(s) of the baseline vehicle(s).           Annual VMT         40,000         Required Input         The estimated Annual VMT of the baseline vehicle(s).           Reductions (MFCO_e)         994         Calculated         The estimated GHG emissions (MICO2e) of the vehicle to be acquired.           Reductions (MFCO_e)         994         Calculated <td< td=""><td>Annual Renewable Energy Generated (kWh/yr)</td><td></td><td>Not Required</td><td>Not applicable for the selected fuel type.</td></td<>	Annual Renewable Energy Generated (kWh/yr)		Not Required	Not applicable for the selected fuel type.
Baseline Vehicle Inputs         Input         Required Required Input         Description           Baseline Vehicle Inputs         Transit Bus         Required Input         Not applicable for this project type.           Engine Ter         Not Required         Not applicable for this project type.           Figine Horsepower         CNG         Required Input         Not applicable for this project type.           Fuel Type         CNG         Required Input         The fuel type (e.g., electric, desal, etc.) of the baseline vehicle(s).           Model Year         2010         Required Input         The average engine model year(s) of the baseline vehicle(s).           Project-Specific CHG Emission Factor (gCO2eMJ)         Optional Input         fueschapplicable for this project type.           Annual VMT         40,000         Required Input         The estimated annual VMT of the baseline vehicle(s). For rail and ferry vehicles. applicants may alternatively use Annual Fuel. For vehicles with multiple engines (e.g., DMUs), provide the cumulative VMT across all the engines.           Annual Fuel Use         Not Required         Not applicable for this project type.           CHG Emission Reductions (MTCO2e)         994         Calculated         The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.           This section is used to estimate the net emission reductions from fue-Internety reductions as a result of the projecet.         Description	GHG Emissions (MTCO <sub>2</sub> e)	141	Calculated	The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.
Inputs         Input         Required         Description           Vehicle Type         Transit Bus         Required Input         Not applicable for this project type.           Engine Tier         Not Required         Not applicable for this project type.           Engine Horsepower         Not Required         Not applicable for this project type.           Fuel Type         CNG         Required Input         The fuel type (e.g., electric, desel, etc.) of the baseline vehicle(s).           Model Year         2010         Required Input         The average engine model year(s) of the baseline vehicle(s).           Project Specific CHG Genesion Factor (gCO2e/MJ)         Optional Input         ff used, applicant must be able to demonstrate an approved carbon intensity value under the Low Carbon Fuel Standard and submit additional documentation.           Annual Fuel Use         Not Applicable for this project type.         Fee submated annual VMT of the baseline vehicle(s). For rail and ferry vehicles, applicants may atternatively use Annual Fuel. For vehicles with multiple engines (e.g., DMUs), provide the cumulate VMT across at the engines.           Annual Fuel Use         Not Required         Not Required           GHG Emission Reductions (MTCO2e)         994         Calculated         The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.           The vehicle type         Input         Required         Description           Vehicle Type	This section is used to es	stimate the net emission reductions from veh	nicle replacement as a	a result of the proposed project.
Control       Control       Control       Control         Engine Ter       Not Required       Not applicable for this project type.         Engine Horsepower       ONG       Required       Not applicable for this project type.         Fuel Type       ONG       Required       Not applicable for this project type.         Hybrid Vehicle       No       Not Required       Not applicable for this project type.         Model Year       2010       Required Input       The average engine model year(s) of the baseline vehicle(s).         Project-Specific GHG       Optional Input       If used, applicant must be able to demonstrate an approved carbon intensity value inder the Low Carbon Fuel Standard and submit additional documentation.         Annual VMT       40,000       Required Input       The estimated annual VMT of the baseline vehicle(s). For rail and ferry vehicles, multiple engines.         Reductions (MTCO2e)       994       Calculated       The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.         This section is used to estimate the net emission reductions from fue/energy reductions as a result of the proposed project.       Fue/UFEnorgy         Reductions Inputs       Required       Description       Project.Specific OR         Engine Tier       Optional Input       The vehicle type (eg., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will reducting inputs         Ve	Baseline Vehicle Inputs	Input	Required	Description
Engine Horsepower       Not Required       Not applicable for this project type.         Fuel Type       CNG       Required Input       The fuel type (e.g., electric, diesel, etc.) of the baseline vehicle(s).         Hybrid Vehicle       No       Not Required       Not applicable for this project type.         Model Year       2010       Required Input       The average engine model year(s) of the baseline vehicle(s).         Project-Specific GHG       Optional Input       If used, applicant must be able to demonstrate an approved carbon intensity velue under the Low Carbon Fuel Standard and submit additional documentation.         Annual VMT       40,000       Required Input       The estimated annual VMT of the baseline vehicle(s). For rail and ferry vehicles, applicants may atternatively use Annual Fuel. For vehicles with multiple engines.         GHG Emission       994       Calculated       The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.         This section is used to estimate the net emission reductions from fuel/energy reductions as a result of the proposed project.       The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize tuel to etc.) of the vehicle(s) that will realize tuel for this project type.         Vehicle Type       Optional Input       Required       Description	Vehicle Type	Transit Bus	Required Input	Not applicable for this project type.
Fuel Type         CNG         Required Input         The fuel type (e.g., electric, diesel, etc.) of the baseline vehicle(s).           Hybrid Vehicle         No         Not Required         Not applicable for this project type.           Model Year         2010         Required Input         The average engine model year(s) of the baseline vehicle(s).           Project-Specific GHG         Optional Input         If used, applicant must be able to demonstrate an approved carbon intensity value under the Low Carbon Fuel Standard and submit additional documentation.           Annual VMT         40,000         Required Input         The estimated annual VMT of the baseline vehicle(s). For rail and ferry vehicles, applicants may alternatively use Annual Fuel. For vehicles with multiple engines (e.g., DMUs), provide the cumulative VMT across all the engines.           Annual Fuel Use         Not Required         Not applicable for this project type.           GHG Emission Reductions (MTCO <sub>20</sub> )         994         Calculated         The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.           This section is used to estimate the net emission reductions from fuel/energy reductions as a result of the proposed project.         Fuel/Energy           Vehicle Type         Optional Input         Required         Description           Vehicle Type         Optional Input         The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions as a result of this project type.	Engine Tier		Not Required	Not applicable for this project type.
Hybrid Venicle         No         Not Required         Not applicable for this project type.           Model Vear         2010         Required Input         The average engine model year(s) of the baseline vehicle(s).           Project-Specific GHG Emission Factor (gCO2eMJ)         Optional Input         If used, applicable for this project type.           Annual VMT (milyr)         40,000         Required Input         The estimated annual VMT of the baseline vehicle(s). For rail and ferry vehicles, applicant must be able to demonstrate an approved carbon intensity value under the Low Carbon Fuel Standard and submit additional documentation.           Annual VMT (milyr)         40,000         Required Input         The estimated annual VMT of the baseline vehicles with multiple engines (e.g., DMUs), provide the cumulative VMT across all the engines.           Annual Fuel Use         Not Required         Not applicable for this project type.           GHG Emission Reductions (MTCO2e)         994         Calculated         The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.           This section is used to estimate the net emission reductions from fuel/energy reductions as a result of the proposed project.         Fuel/Energy Reductions Input         Required           Vehicle Type         Optional Input         Required         Description           Vehicle Type         Optional Input         The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions a	Engine Horsepower		Not Required	Not applicable for this project type.
Model Year       2010       Required Input       The average engine model year(s) of the baseline vehicle(s).         Project-Specific GHG Emission Factor (gCO2e/MJ)       Optional Input       If used, applicant must be able to demonstrate an approved carbon intensity value under the Low Carbon Fuel Standard and submit additional documentation.         Annual VMT (milyr)       40,000       Required Input       The estimated annual VMT of the baseline vehicle(s). For rail and ferry vehicles, applicants may alternatively use Annual Fuel. For vehicles with multiple engines (e.g., DMUs), provide the cumulative VMT across all the engines.         Annual Fuel Use       Not Required       Not Required       Not applicable for this project type.         GHG Emission Reductions (MTCO2e)       994       Calculated       The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.         This section is used to estimate the net emission reductions from fue/energy reductions as a result of the proposed project.       PuellEnergy Reductions Inputs       Required         Vehicle Type       Optional Input       Required       Description         Vehicle Type       Optional Input       The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions as a result of The project.         Fuel/Energine Horsepower       Not Required       Not applicable for this project type.         Engine Horsepower       Not Required       Not applicable for this project type.	Fuel Type	CNG	Required Input	The fuel type (e.g., electric, diesel, etc.) of the baseline vehicle(s).
Project-Specific GHG       Optional Input       If used, applicant must be able to demonstrate an approved carbon intensity value under the Low Carbon Fuel Standard and submit additional documentation.         Annual VMT       40,000       Required Input       The estimated annual VMT of the baseline vehicle(s). For rail and ferry vehicles, applicants may attematively use Annual Fuel. For vehicles with multiple engines (e.g., DMUs), provide the cumulative VMT across all the engines.         Annual Fuel Use       Not Required       Not applicable for this project type.         GHG Emission Reductions (MTCO2e)       994       Calculated       The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.         This section is used to estimate the net emission reductions from fuel/energy reductions as a result of the proposed project.       Fuel/Energy Reductions Inputs       Input         Vehicle Type       Optional Input       Required       Description         Vehicle Type       Optional Input       Required       Description         Vehicle Type       Optional Input       Required       Description         Reductions Inputs       Input       Required       Description         Vehicle Type       Optional Input       The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions as a result of The project.         Fuel/Energy       Not Required       Not applicable for this project type.	Hybrid Vehicle	No	Not Required	Not applicable for this project type.
Emission (Annual VMT (mi/yr)       40,000       Required Input       The estimated annual VMT of the baseline vehicle(s). For rail and ferry vehicles, applicants may alternatively use Annual VMT of the baseline vehicle(s). For rail and ferry vehicles, (e.g., DMUs), provide the cumulative VMT across all the engines.         Annual Fuel Use       Image: Calculated       Not Required       Not applicable for this project type.         GHG Emission (Reductions (MTCO <sub>2</sub> e)       994       Calculated       The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.         This section is used to estimate the net emission reductions from fue/energy reductions as a result of the proposed project.       Description         Yehicle Type       Input       Required       Potional Input         Not Required       Not Required       Not applicable for this project.         Fue/Energy Reductions (MTCO <sub>2</sub> e)       994       Calculated       The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.         This section is used to estimate the net emission reductions from fue/energy reductions as a result of the proposed project.       The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fue/energy reductions as a result of The project.         Vehicle Type       Not Required       Not applicable for this project type.         Engine Tier       Not Required       Not applicable for this project type.         Fuel Type       Not Required       Not applicable for t	Model Year	2010	Required Input	The average engine model year(s) of the baseline vehicle(s).
Annual YM1 (mi/yr)       40,000       Required Input applicants may afternatively use Annual Fuel. For vehicles with multiple engines (e.g., DMUs), provide the cumulative VMT across all the engines.         Annual Fuel Use       Not Required       Not Required         GHG Emission Reductions (MTCO2e)       994       Calculated       The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.         This section is used to estimate the net emission reductions from fuel/energy reductions as a result of the proposed project.       Description         Fuel/Energy Reductions Inputs       Input       Required       Description         Vehicle Type       Optional Input       The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions as a result of The project.         Engine Tier       Not Required       Not applicable for this project type.         Fuel Type       Not Required       Not applicable for this project type.	Project-Specific GHG Emission Factor (gCO2e/MJ)		Optional Input	
GHG Emission Reductions (MTCO2e)       994       Calculated       The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.         This section is used to estimate the net emission reductions from fuel/energy reductions as a result of the proposed project.       Engine Tier       Input       Required       Description         Vehicle Type       Optional Input       The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions as a result of The project.         Engine Tier       Not Required       Not applicable for this project type.         Fuel Type       Not Required       Not applicable for this project type.	Annual VMT (mi/yr)	40,000	Required Input	applicants may alternatively use Annual Fuel. For vehicles with multiple engines
Reductions (MTCO2e)       994       Calculated       The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.         This section is used to estimate the net emission reductions from fue/energy reductions as a result of the proposed project.       Description         Fue/Energy Reductions Inputs       Input       Required       Description         Vehicle Type       Optional Input       The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions as a result of The project.         Engine Tier       Not Required       Not applicable for this project type.         Fuel Type       Not Required       Not applicable for this project type.	Annual Fuel Use		Not Required	Not applicable for this project type.
Fuel/Energy Reductions Inputs       Input       Required       Description         Vehicle Type       Optional Input       The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions as a result of The project.         Engine Tier       Not Required       Not applicable for this project type.         Engine Horsepower       Not Required       Not applicable for this project type.         Fuel Type       Not Required       Not applicable for this project type.	GHG Emission Reductions (MTCO <sub>2</sub> e)	994	Calculated	The estimated GHG emissions (MTCO2e) of the vehicle to be acquired.
Reductions Inputs     Input     Required     Description       Vehicle Type     Optional Input     The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions as a result of The project.       Engine Tier     Not Required     Not applicable for this project type.       Engine Horsepower     Not Required     Not applicable for this project type.       Fuel Type     Not Required     Not applicable for this project type.	This section is used to es	stimate the net emission reductions from fue	l/energy reductions a	s a result of the proposed project.
Vehicle Type       Optional Input       The vehicle type (e.g., Transit Bus, Streetcar, Ferry, etc.) of the vehicle(s) that will realize fuel/energy reductions as a result of The project.         Engine Tier       Not Required       Not applicable for this project type.         Engine Horsepower       Not Required       Not applicable for this project type.         Fuel Type       Not Required       Not applicable for this project type.	Fuel/Energy Reductions Inputs	Input	Required	Description
Engine Horsepower     Not Required     Not applicable for this project type.       Fuel Type     Not Required     Not applicable for this project type.	Vehicle Type		Optional Input	
Fuel Type     Not Required     Not applicable for this project type.	Engine Tier		Not Required	Not applicable for this project type.
	Engine Horsepower		Not Required	Not applicable for this project type.
Model Year Not Required Not applicable for this project type.	Fuel Type		Not Required	Not applicable for this project type.
	Model Year		Not Required	Not applicable for this project type.

Annual Fuel/Energy Reduced		Not Required	Not applicable for this project type.
GHG Emission Reductions (MTCO <sub>2</sub> e)		Calculated	Not applicable for this project type.
This section is used to es	stimate the GHG emisson reductions as a re	sult of the proposed	project.
Total Project GHG Emission Reductions (MTCO <sub>2</sub> e)	852	Calculated	Total GHG emission reductions (MTCO2e) from the project during the useful life.
Total LCTOP Project GHG Emission Reductions (MTCO <sub>2</sub> e)	852	Calculated	The portion of GHG emission reductions attributable to funding from LCTOP; GHG emission reductions are prorated according to the level of program funding contributed from LCTOP and other CCI programs, as applicable.
FY 21-22 LCTOP Project GHG Emission Reductions (MTCO2e)	852	Calculated	The portion of GHG emission reductions attributable to funding from FY 21-22 LCTOP; GHG emission reductions are prorated according to the level of program funding contributed from FY 21-22 LCTOP and other CCI programs, as applicable.

### Please provide specific area information for the project. Lat-Long for the project should be in decimal degrees.

If you are claiming a Priority Population benefit, please provide **at least one location point to each claimed community** within the **first three rows**. Then **select** from the drop down which community the location points are representing. Use https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40 to identify your DAC and https://webmaps.arb.ca.gov/PriorityPopulations/ to Identify your AB 1550 Community

J and 8th		Longitude	Priority Population
J and oth	38.580997	-121.496433	Disadvantaged Community
Name A	38.580997	-121.496433	Disadvantaged Community
Name B	38.680997	-121.596433	Low-Income Community/Househol
Name C	38.780997	-121.696433	Low-Income w/n 1/2 mile of a DAC
Redwood Dr / Golf Course Dr (Graton Resort)			Disadvantaged Community
Petaluma Hill Rd & Dutch Ln	38.304132	-122.666391	Low-Income Community/Househol
Santa Rosa Ave & Scenic Ave	38.376087	-122.713652	Low-Income w/n 1/2 mile of a DAC
Petaluma Transit Mall	38.236645	-122.636513	
E Washington St & Lakeville St	38.238262	-122.635649	None
E Washington St & Vallejo St	38.240699	-122.633569	None
E Washington St & Kenilworth Dr	38.243942	-122.630551	None
N McDowell Blvd (Lucchesi Park)	38.252315	-122.631188	None
N McDowell Blvd & Lynch Creek Way	38.253387	-122.633037	None
N McDowell Blvd & Rainer Ave	38.255669	-122.637162	None
Rainier Ave & Maria Dr	38.258269	-122.632706	None
Rainier Ave & Acadia Dr	38.262005	-122.629869	None
Sonoma Mtn Pkwy & Rainier Ave	38.262943	-122.630046	None
Sonoma Mtn Pkwy (Petaluma SRJC)	38.267377	-122.637879	None
Sonoma Mtn Pkwy & Reisling	38.269031	-122.640987	None
Sonoma Mtn Pkwy & Ely Rd	38.268943	-122.643914	None
Sonoma Mtn Pkwy & Maria Dr	38.268242	-122.649077	None
N McDowell Blvd & Rainer Ave	38.256535	-122.638688	None
N McDowell Blvd & Dynamic St	38.258040	-122.641359	None
N McDowell Blvd & Sunrise Parkway	38.259642	-122.644167	None
N McDowell Blvd & Southpoint	38.261705	-122.647780	None
N McDowell Blvd & Southpoint	38.263234	-122.650539	None
N McDowell Blvd & Corona Rd	38.265425	-122.654429	None
N McDowell Blvd & Rand St	38.267776	-122.658547	None
N McDowell Blvd & Clegg St	38.269374	-122.660257	None
N McDowell Blvd & Scott St	38.272516	-122.663714	None
N McDowell Blvd & Old Redwood Hwy	38.273992	-122.666204	None
Old Redwood Hwy & McDowell Blvd	38.276301	-122.668933	Low-Income Community/Househol
Old Redwood Hwy & Ely Rd			Low-Income Community/Househol
Old Redwood Hwy & Hatchery Rd	38.290003	-122.666313	Low-Income Community/Househol
Old Redwood Hwy & Petaluma Hill Rd	38.294591	-122.666843	Low-Income Community/Househol
Petaluma Hill Rd & Woodward Ave	38.297297	-122.666315	Low-Income Community/Househol
Petaluma Hill Rd & Adobe Rd	38.299560	-122.666344	Low-Income Community/Househol
Santa Rosa Ave & Horn Ave	38.376285	-122.713305	None
Petaluma Hill Rd & East Railroad Ave	38.309041	-122.666429	Low-Income Community/Househol
Petluma Hill Rd & East Railroad Ave	38.314599	-122.666574	Low-Income Community/Househol
Petaluma Hill Rd & Valley House Dr		-122.666663	
Petaluma Hill Rd & Robert's Rd	38.329409	-122.666629	None
Petaluma Hill Rd & Curtis Dr	38.333521	-122.666654	None
East Cotati Ave & Petaluma Hill Rd	38.336254	-122.668754	None
Sonoma State University	38.338075	-122.675004	None
Sonoma State University - NB	38.338075	-122.675004	None
East Cotati Ave & Sequoia Way	38.336244	-122.675472	None

East Catati Ava & Snudar/Daman	20 226240	100 600000	Nono
East Cotati Ave & Snyder/Roman East Cotati Ave & Cristobal Way	38.336248	-122.682228 -122.686873	
East Cotati Ave & Camino Colegio Ave	38.333921		
East Cotati Ave & Carnino Colegio Ave		-122.690441	
East Cotati Ave & Ryan Lane			Low-Income Community/Househol
East Cotati Ave & Lancaster Dr			Low-Income Community/Househol
Adrian Dr & Bonnie Ave			Low-Income Community/Househol
Adrian & Southwest			Low-Income Community/Househol
Commerce Blvd & Arlen Dr			
Commerce Blvd & Enterprise Dr			Low-Income Community/Househol
Commerce Blvd & RP Expressway			Low-Income Community/Househol
			Low-Income Community/Househol
RP Expressway & Hwy 101 Martin Ave & Dowdell Ave			Low-Income Community/Househol
			Low-Income Community/Househol
Labath & Martin			Low-Income Community/Househol Low-Income w/n 1/2 mile of a DAC
Business Park Dr & Redwood Dr			
Redwood Dr & RP Expressway (Budget Inn)	38.348991		Low-Income w/n 1/2 mile of a DAC
Redwood Dr / Golf Course Dr (Graton Resort)	38.362135		Low-Income w/n 1/2 mile of a DAC
Graton Resort (North Entrance)	38.361640	-122.722626	Low-Income w/n 1/2 mile of a DAC
Redwood Dr / Commerce Blvd (Taco Bell across fro	38.364988	-122.713648	Disadvantaged Community
	00 00 1 - 0 -	100 710 100	
Santa Rosa Ave & Mountain View Ave			Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave/ Todd Rd			Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & Todd Rd			Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & East Robles Ave			Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & Butterfly Ln			Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & Castro Ct			Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & Bellevue Ave			Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & Court Rd	38.407537		Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & Yolanda Ave	38.411806		Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & Colgan Ave (Market Place)	38.419177		Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & Colgan Ave	38.421723		Low-Income w/n 1/2 mile of a DAC
Santa Rosa Ave & Barham Ave	38.427548		Low-Income Community/Househol
Santa Rosa Ave & Maple Ave	38.431762		Low-Income Community/Househol
Santa Rosa Ave & Mill St	38.434039	-122.711683	Low-Income Community/Househol
Santa Rosa Transit Mall	38.438686	-122.713727	Low-Income Community/Househol
B St & Ross St	38.441337	-122.716799	Low-Income Community/Househol
Mendocino Ave & Cherry St			Low-Income Community/Househol
Mendocino Ave & College Ave	38.446148	-122.717560	Low-Income Community/Househol
Mendocino Ave & Ridgeway	38.449979	-122.717410	Low-Income Community/Househol
Ac Santa Rosa Junior College	38.455033	-122.717217	Low-Income Community/Househol
Mendocino Ave & Dexter St	38.457209	-122.717126	Low-Income Community/Househol
Mendocino Ave & Silva Ave	38.458518	-122.717083	Low-Income Community/Househol
Mendocino Ave & Steele Ln	38.462123	-122.717528	Low-Income Community/Househol
Administration Dr & Paulin			Low-Income Community/Househol
Administration Dr & Ventura	38.464161		Low-Income Community/Househol
County Admin Center (Ventura Ave)	38.466541	-122.724219	Low-Income Community/Househol
Kaiser Stop / Bicentennial Ave	38.470341		Low-Income Community/Househol
Range Ave & Russel Ave	38.468321		Low-Income Community/Househol
Range Ave & State Farm Dr	38.465583		Low-Income Community/Househol
Range Ave & @ Paulin Creek	38.462693		Low-Income Community/Househol
Range Ave & Steele Ln	38.460372		Low-Income Community/Househol
Coddingtown	38.457133		Low-Income Community/Househol
Old Redwood Hwy & Adobe Rd			Low-Income Community/Househol
Old Redwood Hwy & Adobe Rd	38.30331586	-122.681021	Low-Income Community/Househol

Old Redwood Hwy & Minnesota Ave	38.30719898	-122.687749	Low-Income Community/Househol
Old Redwood Hwy & Fern Ave	38.30971175	-122.690381	Low-Income Community/Househol
Old Redwood Hwy & East Railroad Ave	38.31470927	-122.694693	Low-Income Community/Househol
Old Redwood Hwy & Valparaiso	38.32238485	-122.70278	Low-Income Community/Househol
Old Redwood Hwy & Page Ave	38.32395801	-122.703961	Low-Income Community/Househol
Cotati Hub	38.3266211	-122.705471	Low-Income Community/Househol
East Cotati Ave & La Salle Ave	38.32862395	-122.699182	None



#### Benefits Calculator Tool for the Low Carbon Transit Operations Program

California Climate Investments

# Step 3: Review the Estimated GHG Emission Reductions for the Proposed Project Project Name: Purchase One 35-Foot Battery-Electric Transit Bus

Co-benefits and Key Variables Summary	
LCTOP GGRF Funds	
Local Diesel PM Emission Reductions (lbs)	0
Local NO <sub>x</sub> Emission Reductions (lbs)	770
Local PM <sub>2.5</sub> Emission Reductions (lbs)	24
Local ROG Emission Reductions (lbs)	1
Remote Diesel PM Emission Reductions (lbs)	0
Remote NO <sub>x</sub> Emission Reductions (lbs)	0
Remote PM <sub>2.5</sub> Emission Reductions (lbs)	0
Remote ROG Emission Reductions (lbs)	0
Passenger VMT Reductions (miles)	0
Fossil Fuel Use Reductions (gallons)	83,910
Fossil Fuel Energy Use Reductions (kWh)	-473,199
Renewable Energy Generated (kWh)	0
Travel Cost Savings (\$)	\$0
Energy and Fuel Cost Savings (\$)	\$141,098
Additional California Climate Investments Program(s)	
Local Diesel PM Emission Reductions (lbs)	0
Local NO <sub>x</sub> Emission Reductions (lbs)	0
Local PM <sub>2.5</sub> Emission Reductions (lbs)	0
Local ROG Emission Reductions (lbs)	0
Remote Diesel PM Emission Reductions (lbs)	0
Remote NO <sub>x</sub> Emission Reductions (lbs)	0
Remote PM <sub>2.5</sub> Emission Reductions (lbs)	0
Remote ROG Emission Reductions (lbs)	0
Passenger VMT Reductions (miles)	0
Fossil Fuel Use Reductions (gallons)	0
Fossil Fuel Energy Use Reductions (kWh)	0
Renewable Energy Generated (kWh)	0
Travel Cost Savings (\$)	\$0
Energy and Fuel Cost Savings (\$)	\$0
Total California Climate Investments	
Local Diesel PM Emission Reductions (lbs)	0
Local NO <sub>x</sub> Emission Reductions (lbs)	770
Local PM <sub>2.5</sub> Emission Reductions (lbs)	24
Local ROG Emission Reductions (lbs)	1
Remote Diesel PM Emission Reductions (lbs)	0
Remote NO <sub>x</sub> Emission Reductions (lbs)	0
Remote PM <sub>2.5</sub> Emission Reductions (lbs)	0
Remote ROG Emission Reductions (lbs)	0
Passenger VMT Reductions (miles)	0
Fossil Fuel Use Reductions (gallons)	83,910
Fossil Fuel Energy Use Reductions (kWh)	-473,199
Renewable Energy Generated (kWh)	0
Travel Cost Savings (\$)	\$0
Energy and Fuel Cost Savings (\$)	\$141,098



Job Co-benefit Modeling Tool

California Climate Investments

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Total Full-time Equivalent Jobs Supported by Project Budget	5.0
Total Full-time Equivalent Jobs Supported by Project GGRF Funds	3.8
Full-time Equivalent Jobs Directly Supported by Project GGRF Funds	1.6
Full-time Equivalent Jobs Indirectly Supported by Project GGRF Funds	0.9
Full-time Equivalent Induced Jobs Supported by Project GGRF Funds	1.2

### Note:

It is not appropriate to directly compare the job estimates from this Job Co-benefit Modeling Tool to the GGRF project dollars. California Climate Investments facilitate greenhouse gas emission reductions and deliver a suite of economic, environmental, and public health co-benefits, including job co-benefits. A different mix of spending on materials, equipment, and labor is expected across various California Climate Investments project types and match funding arrangements. As such, some project types will support more jobs than others.



Benefits Calculator Tool for the Low Carbon Transit Operations Program

California Climate Investments

### Step 3: Review the Estimated GHG Emission Reductions for the Proposed Project

Project Name	Purchase One 35-Foot Bat	attery-
	Electric Transit Bus	
Project Information		
FY 2021-2022 LCTOP GGRF Funds Requested (\$)	\$ 723,	23,617
Total LCTOP GGRF Funds (\$)	\$ 723,	23,617
Total GGRF Funds (\$)	\$ 723,	23,617
Non-GGRF Leveraged Funds (\$)	\$ 243,	3,040
Total Funds (\$)	\$ 966,	6,657
GHG Summary		
Total FY 2021-2022 LCTOP GHG Emission Reductions (MTCO <sub>2</sub> e)	852	
Total LCTOP GHG Emission Reductions (MTCO <sub>2</sub> e)	852	
Total GHG Emission Reductions (MTCO <sub>2</sub> e)	852	
Total GHG Emission Reductions per FY 2021-2022 LCTOP GGRF Funds (MTCO <sub>2</sub> e/\$million)	1,178	
Total GHG Emission Reductions per Total GGRF Funds (MTCO <sub>2</sub> e/\$million)	1,178	