



## Cost Estimate

Project: Erie Flex Ride Starter Service  
Project Location: Erie  
Project Sponsor: Town of Erie  
Project Contact: Miguel Aguilar, Senior Transportation Planner  
720-648-2293 | [maquilar@erieco.gov](mailto:maquilar@erieco.gov)

This project will be contracted out through an RFP. The project cost is an estimated cost per hour. The first vehicle is planned to be in service full time. The second vehicle will operate less in the beginning as the Town markets the service then move to full time.

Hours of Service Vehicle One: 2,080

Hours of Service Vehicle Two: 1,920

Estimated Cost Per Hour: \$150

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TOTAL Project Cost \$600,000

# Transit Bus Service and Fleet Expansion

This calculator will estimate the reduction in emissions from projects which expand transit bus service and fleets, including new routes, new schedules, and new vehicles. Emissions reductions are associated with the mode shift from passenger vehicle to transit activity. Users are recommended to forecast activity by mode with an external travel demand model.

## Navigator

### Transit Bus Service and Fleet Expansion

[Model Year Distribution](#)

[Fuel Type Distribution](#)

[Road Type Distribution](#)

## INPUT

[User Guide](#)

[Reset to Default Values](#)

(1) What is your project evaluation year?

(2) Please input the number of days that the bus service is operated annually

*Note: Default is 365 days per year.  
For weekdays only, enter 260 days per year.  
For weekends only, enter 105 days per year*

### Transit Bus Information

(3a) Enter the estimated vehicle miles traveled annually by the transit buses before and after the transit project is completed.

Transit Bus Miles Traveled	Before	After	Miles
	<input type="text" value="1"/>	<input type="text" value="8,100"/>	

(3b) Enter the [VMT allocations](#) of your transit bus fleet on the separate tabs before and/or after project completion. If desired, default national average distributions can be used to fill these tables.

Allocations of Model Years

Allocations of Fuel Types

Allocations of Road Types

### Passenger Vehicle Information

(4a) Enter the annual passenger vehicle activity information before and after the project. Annual passenger vehicle activity can be entered either in terms of vehicle miles traveled, or number of passenger trips diverted. The passenger vehicle average one-way trip distance should be entered in miles.

Passenger Vehicle Activity Type  Passenger Activity Type  
 Passenger Vehicle Miles Traveled  
 Passenger Vehicle Trips

### Passenger Vehicle Activity Type

Passenger Activity Type

Passenger Vehicle Miles Traveled  
 Passenger Vehicle Trips

Passenger Vehicle Activity 

Before	After	Trips
<input type="text" value="1"/>	<input type="text" value="1,620"/>	

Average One-Way Trip Distance  Miles

*Note: National Default value is 4.52*

(4b) Do you expect most passenger vehicle trips to be linked with bus trips as a result of the service or fleet expansion?

Linked Passenger Vehicle Trips

Yes, passengers will drive to transit hubs to use the expanded transit bus service or fleet.  
 No, the expansion will eliminate full passenger vehicle trips (reduction of running and start activity)

## OUTPUT

[Calculate Output](#)

### FLEET PERFORMANCE

Transit Bus VMT increase	<input type="text" value="8,099"/>	Miles
Passenger Vehicle Trip Reduction	<input type="text" value="-1,619"/>	Trips
Passenger Vehicle VMT reduction	<input type="text" value="-7,318"/>	Miles

### EMISSION REDUCTIONS

Pollutant	Total kg/day
Carbon Monoxide (CO)	-0.341
Particulate Matter <2.5 μm (PM <sub>2.5</sub> )	-0.002
Particulate Matter <10 μm (PM <sub>10</sub> )	-0.008
Nitrogen Oxide (NOx)	-0.082
Volatile Organic Compounds (VOC)	-0.008
Carbon Dioxide (CO <sub>2</sub> )	-56.856
Carbon Dioxide Equivalents (CO <sub>2</sub> e)	-57.737
Total Energy Consumption (MMBTU)	-0.745

## RTD Concurrence



Christopher Quinn <Chris.Quinn@RTD-Denver.com>

To  Miguel Aguilar

Cc  Carlos Hernandez;  Todd Cottrell

 Follow up.



 Reply

 Reply All

 Forward



Thu 1/5/2023 1:54 PM

Miguel,

This email is to provide RTD's concurrence with the Town of Erie's request for a Flex Ride Starter Service for Erie and other Southwest Weld County communities. We would request that, if awarded funding, you coordinate with RTD on items such as scheduling software and route coverage so as to ensure alignment of the Flex Ride with RTD services.

Please let me know if I can provide additional information.

### **Chris Quinn**

Project Manager

Planning

he | him | his

o. 303.299.2439

[chris.quinn@rtd-denver.com](mailto:chris.quinn@rtd-denver.com)

[rtd-denver.com](http://rtd-denver.com)



Regional Transportation District

1660 Blake Street, BLK-21

Denver, CO 80202

*We make lives better through connections.*



# COLORADO

## Department of Transportation

Region 4  
Regional Director's Office  
10601 10<sup>th</sup> Street  
Greeley, CO 80634-9000

November 9, 2022

Miguel Aguilar  
Senior Transportation Planner  
Town of Erie  
645 Halbrook Street  
Erie, CO 80516

RE: CDOT Region 4 Concurrence Request for DRCOG TIP Sub-Regional Call FY24-27

Dear Mr. Aguilar:

This letter is to inform you that the Colorado Department of Transportation (CDOT) Region 4 concurs with the Town of Erie's application for the DRCOG Sub-Regional FY24-27 TIP Call. This concurrence applies only for the Flex Ride Starter Service project, in the event this project is selected by DRCOG as a sub-regional project in this Call. If this regional project is awarded DRCOG funds at a later date, the local agency will need to submit a separate request for CDOT's concurrence and funding contribution at that time.

Projects impacting state highways should assume that CDOT will manage the project and the local agency is responsible for payment of CDOT's work including indirect charges. Please note that per the DRCOG TIP Policy, if project costs increase on DRCOG-selected projects, sponsors must make up any shortfalls.

This concurrence is conditionally granted based on the scope as described. CDOT does however retain final decision-making authority for all improvements and changes within CDOT's right-of-way. As the project progresses, the local agency will need to work closely with CDOT Region staff to ensure CDOT's continued concurrence.

This project must comply with all CDOT and/or FHWA requirements including those associated with clearance for right-of-way, utilities, and environmental. All costs associated with clearances including right-of-way acquisition, utilities relocation, and environmental mitigation measures, such as wetland creation, must be included in the project costs. CDOT staff will assist you in determining which clearances are required for your project. The CDOT Local Agency Manual includes project requirements to assist with contracting, design, and construction, which can be accessed at:

[http://www.coloradodot.info/business/designsupport/bulletins\\_manuals](http://www.coloradodot.info/business/designsupport/bulletins_manuals)

Should you have any questions regarding this concurrence, or if your agency would like to schedule time to meet with CDOT specialty units, please contact Josie Hadley at (970) 888-4006.

Sincerely,  
Heather  
Paddock

Digitally signed by  
Heather Paddock  
Date: 2022.11.09  
15:04:07 -0700

Heather Paddock  
CDOT Region 4 Transportation Director

cc: Bryce Reeves, CDOT Region 4 Local Agency Resident Engineer  
Josie Thomas, CDOT Region 4 Planning & Local Agency Environmental Manager  
James Eussen, CDOT Region 4 Planning & Environmental Manager  
Whitney Holcombe, CDOT Region 4 STIP and Project Creation Technician  
Deanna McIntosh, CDOT Region 4 Project Coordinator

