



# MISSION

CONNECTING OUR COMMUNITY.

# VISION VALUES A

IN ALL THAT WE DO, WE ARE COMMITTED TO CREATING A MORE CONNECTED, SUSTAINABLE, AND EQUITABLE COMMUNITY.

RESPECT, INTEGRITY, INNOVATION, EQUITY, SAFETY, AND COLLABORATION.



## AGENDA



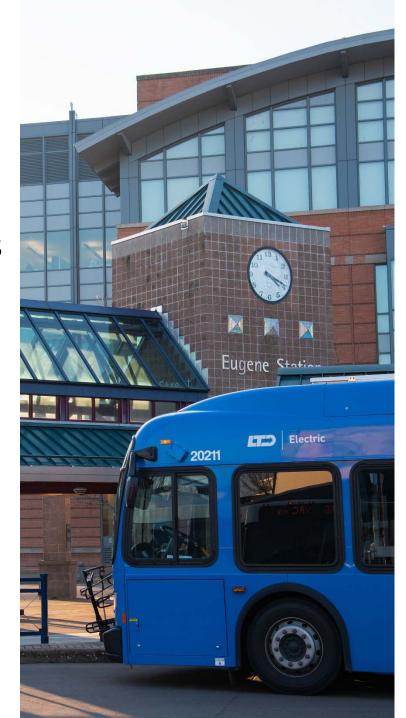
GHG Inventory Results FY 19-21 & trends



Climate Action Policy Progress



Q&A?







Net Greenhouse Gas Impacts of Transit Emissions Produced – Emissions Displaced

### **Emissions Produced by Transit**

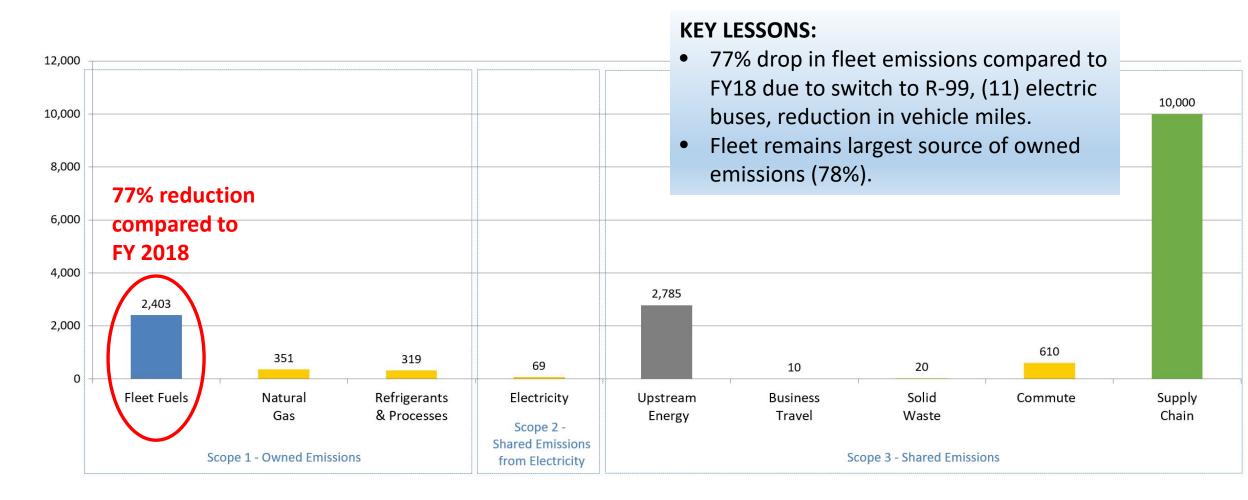
#### **Transit Operations**

- Fleet vehicles energy use
- Buildings & stations energy
- Refrigerants for vehicle AC
- All other emissions sources
  - Business travel
  - Employee commute
  - Solid waste
  - Purchases

# Annual Greenhouse Gas Emissions (MT CO<sub>2</sub>e)

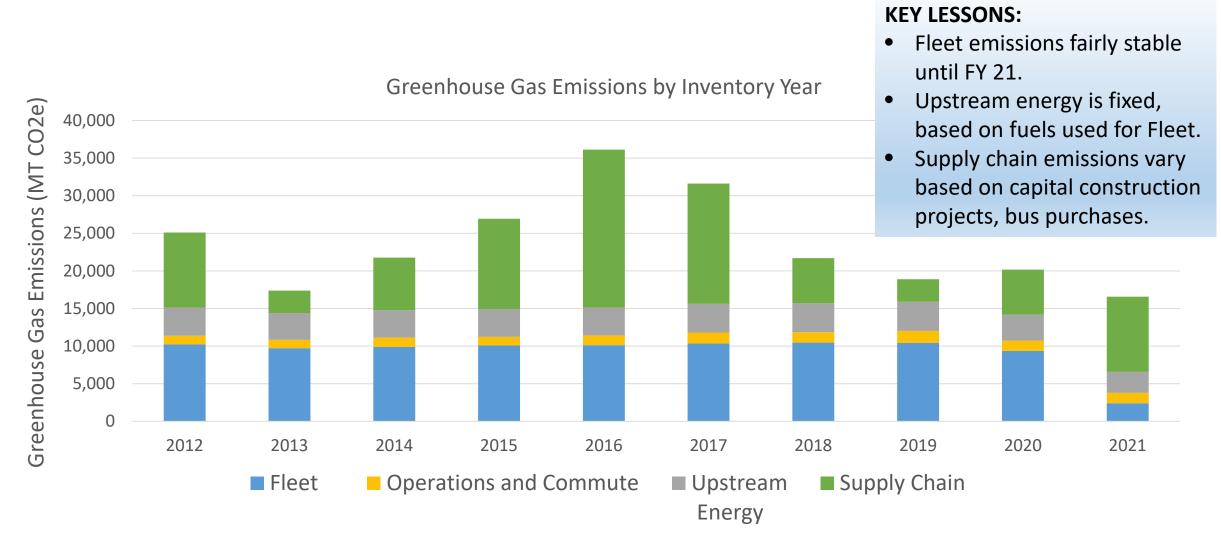
## GHG Impacts from Transit, FY 2021





## GHG Impacts from Transit, FY 2012-2021





## GHG Impacts and Benefits from Transit



Net Greenhouse Gas Impacts of Transit Emissions Produced – Emissions Displaced



### **Transit Operations**

- Fleet vehicles energy use
- Buildings & stations energy
- Refrigerants for vehicle AC
- All other emissions sources
  - Business travel
  - Employee commute
  - Solid waste
  - Purchases

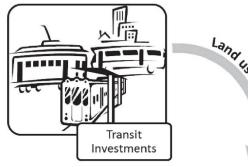
#### **Emissions Benefits of Transit**

### Ridership Benefit

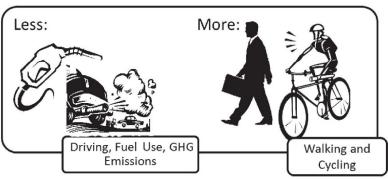
Reduced VMT from • taking the bus instead of a private auto

#### Land Use Benefit

- Compact
  development around
  transit facilities
  reduces VMT for all
- Shorter trips makes biking/walking more attractive

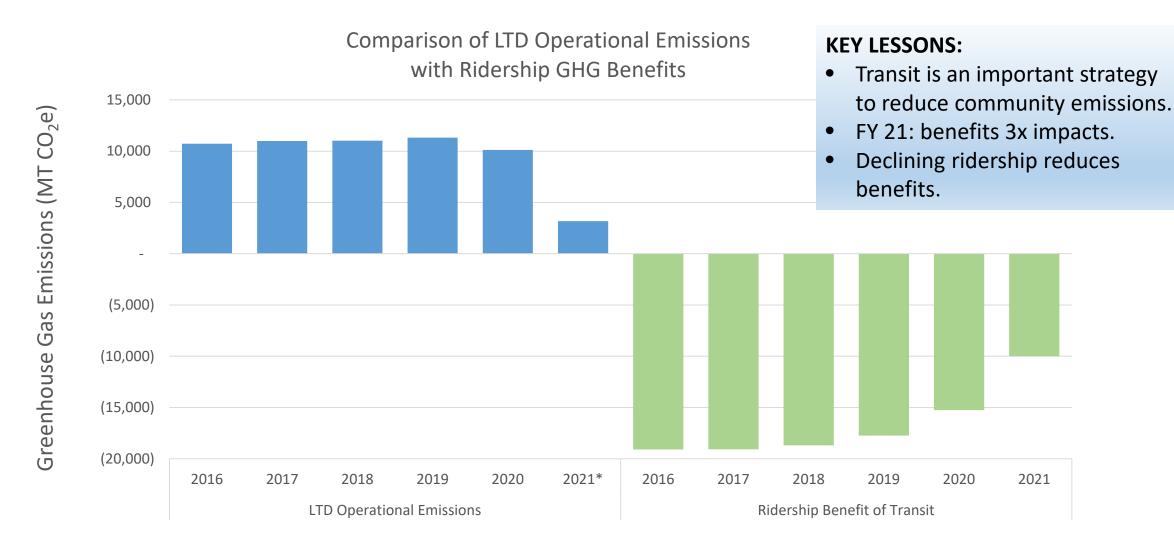






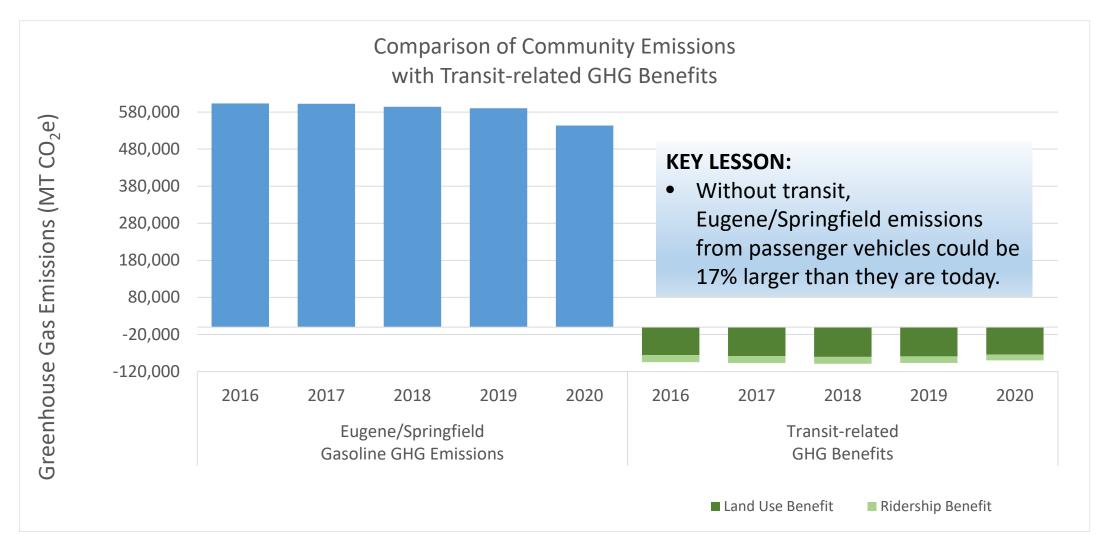
## GHG Benefits from Transit Ridership FY 16-21





## GHG Benefits from Transit Ridership + Land Use





## Climate Action Policy, 2020



"LTD recognizes the urgency in addressing climate change and is committed to reducing community greenhouse gas emissions by taking steps to maximize public transit ridership and support low-carbon active transportation modes. LTD is also committed to reducing the greenhouse gas emissions and consumption of fossil fuels from its fleet of vehicles as quickly as possible in a financially and socially responsible manner. LTD is committed to eliminating the use of fossil fuels in its bus fleet by 2035 and will develop plans to achieve that goal."



## Climate Action Policy, 2020



**Goal 1:** 25 electric buses within 3 years

## Goal 2:

■ By 2035: 100% fleet turnover, phase out fossil fuels

■ By 2030: 75% GHG reduction from "Fleet"

#### Goal 3:

- Research emerging technology and fuels
- Develop joint community GHG emission reduction goals with partner jurisdictions
- Review progress & goals annually







LTD is on track to not only meet, but exceed the Climate Action Policy and Fleet Procurement Goals passed by the Board of Directors.

## Progress Towards Climate Action Policy



GOAL	ON TRACK?	NOTES					
CAP Goal 1: 25 BEB contracted by 2023 SBP Interim Goal: Fleet 25% BEB by 2024		On track to exceed this goal: 30 buses by FY2023					
CAP Goal 2a: Eliminate fleet fossil fuels by 2035 SBP Interim Goal: 70% renewable fuel by 2024		On track: 64% Renewable fleet fuel in FY2021 due to switch to R-99 in Sept 2020					
<b>CAP Goal 2b</b> : 75% Fleet GHG reduction by 2030 <b>SBP Interim Goal</b> : 70% GHG reduction by 2024		<b>Achieved</b> : 77% Fleet GHG reduction in FY2021 due to R-99 and (11) electric bus deployment					
<b>CAP: Goal 3a</b> : Deliberate exploration of fuels <b>SBP Tactic:</b> Fleet Procurement Plan Project		On track: Fleet Procurement Plan Phase 1 for bus and paratransit fleets complete					
<b>CAP Goal 3b</b> : Joint community GHG reduction goals with partners		On track: Goals in CoE CAP2.0 & Lane County CAP					
<b>CAP Goal 3c</b> : Review progress annually <b>SBP Tactic</b> : Update GHG inventory biannually		On track: This presentation					

## Goal 1: 25 BEBs by 2023

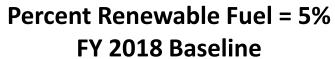


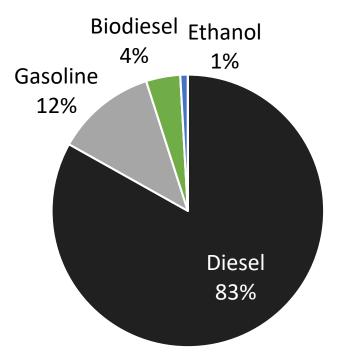
- Exceeding goal: 30 BEBs by 2023
- (11) BEBs in service since June 2021
- (19) BEBs purchased

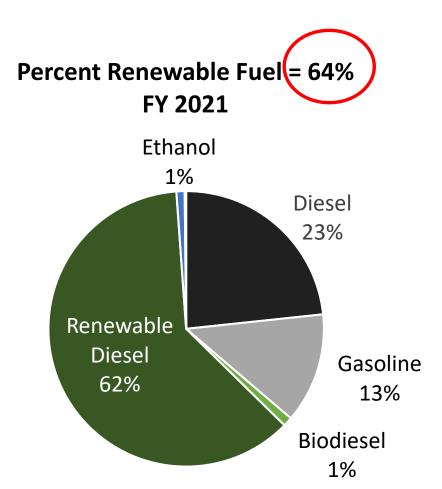






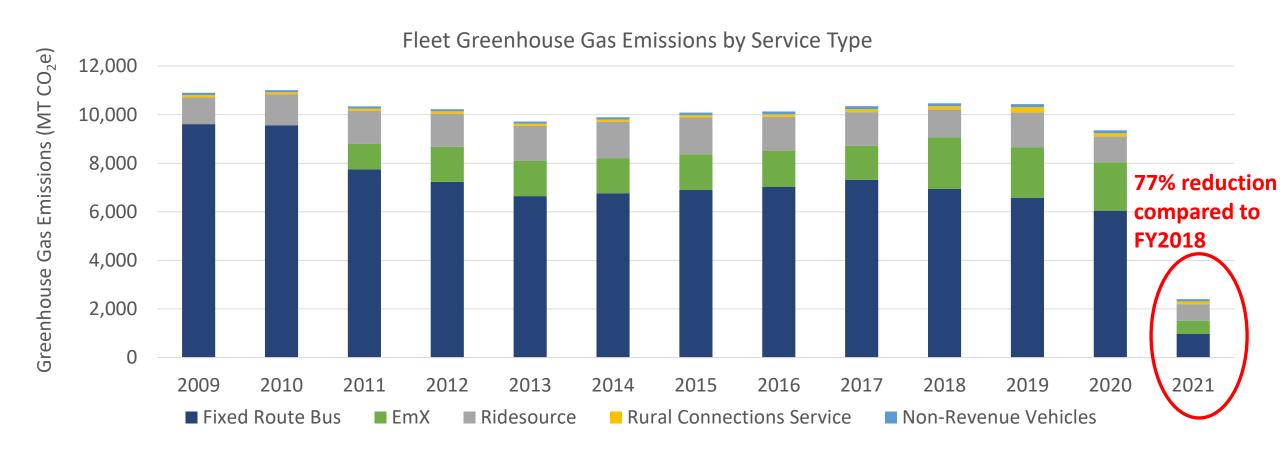






## Goal 2b: 75% Reduction in Fleet GHGs by 2030





## Q&A? Thank you!



Kelly Hoell Sustainability Program Manager 541-682-6146 Kelly.hoell@ltd.org

## APPENDIX OF ADDITIONAL RESULTS





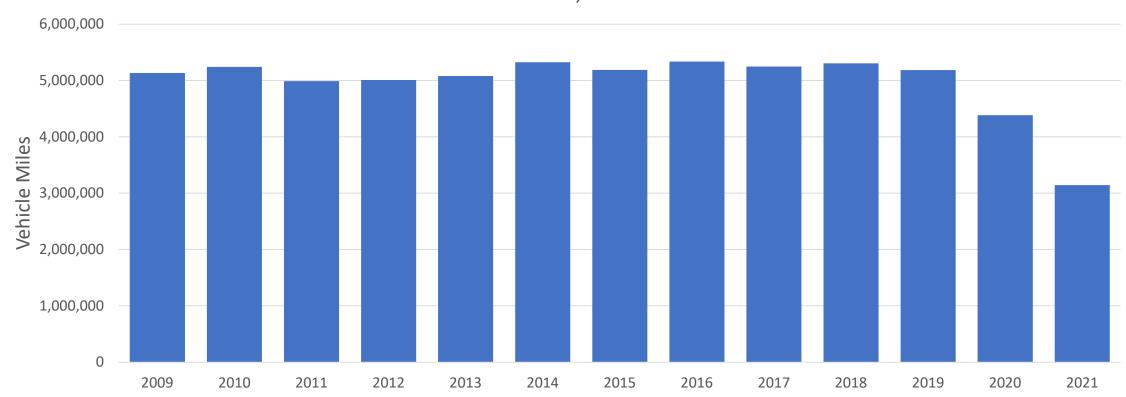








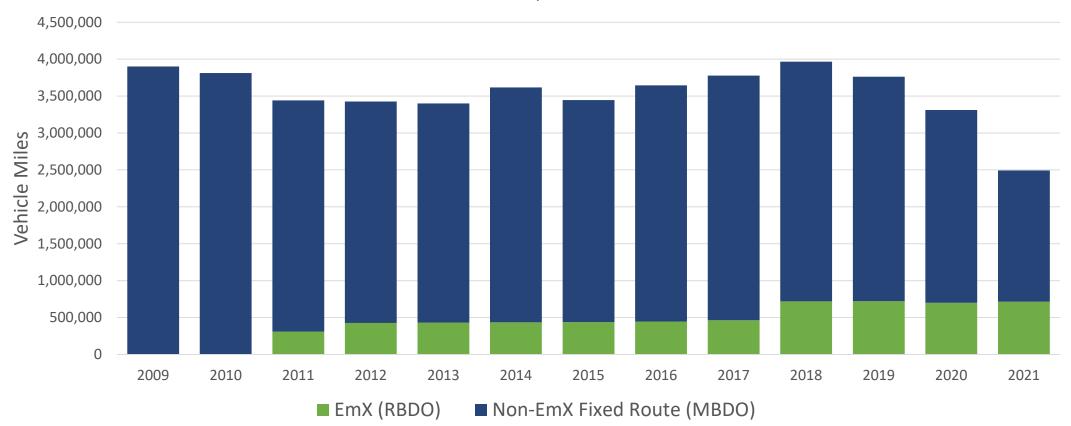
FY 2009-2021, All Modes







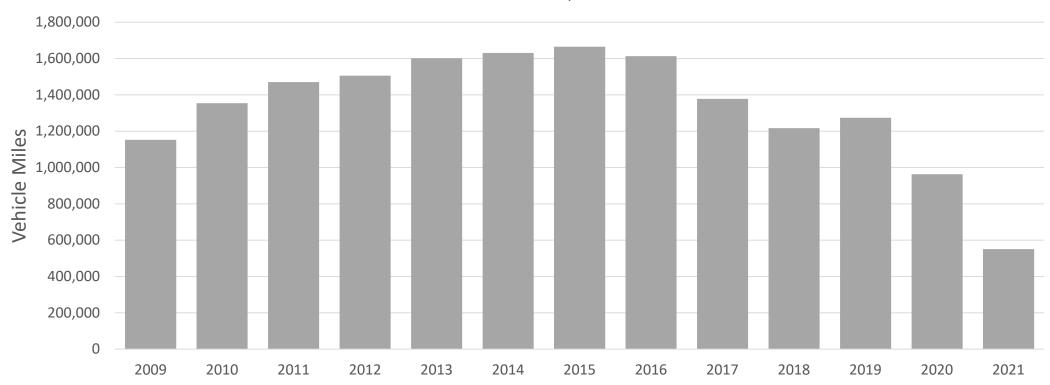
FY 2009-2021, Fixed Route







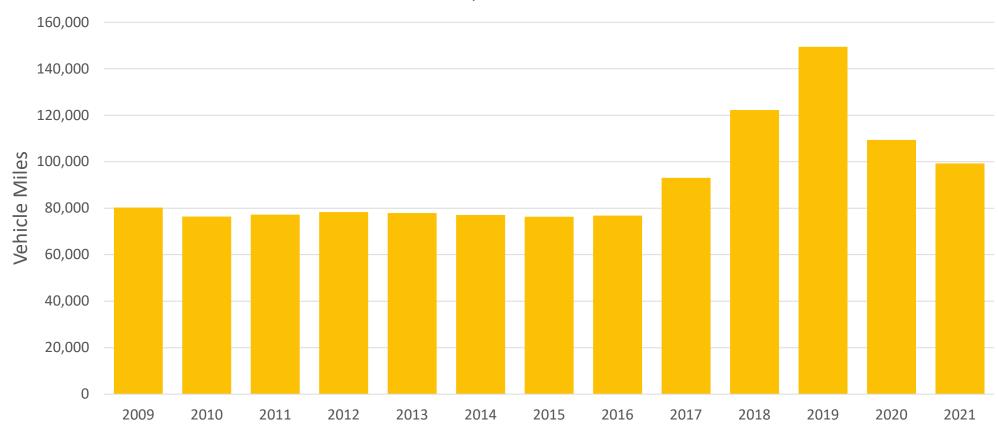
Fiscal Year 2009-2021, RideSource







Fiscal Year 2009-2021, Rural Connection Services

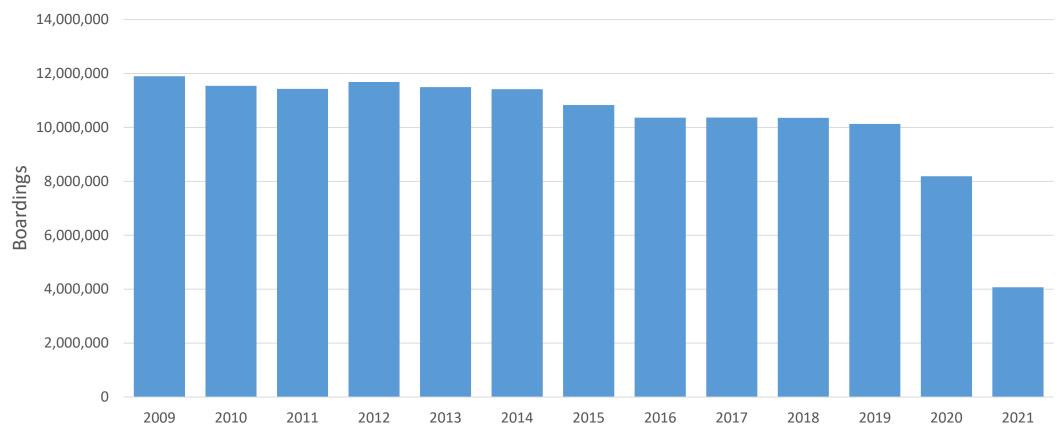


## LTD Boardings, All Modes FY 09-21



## **Annual LTD Boardings**

Fiscal Year 2009-2021, All Modes

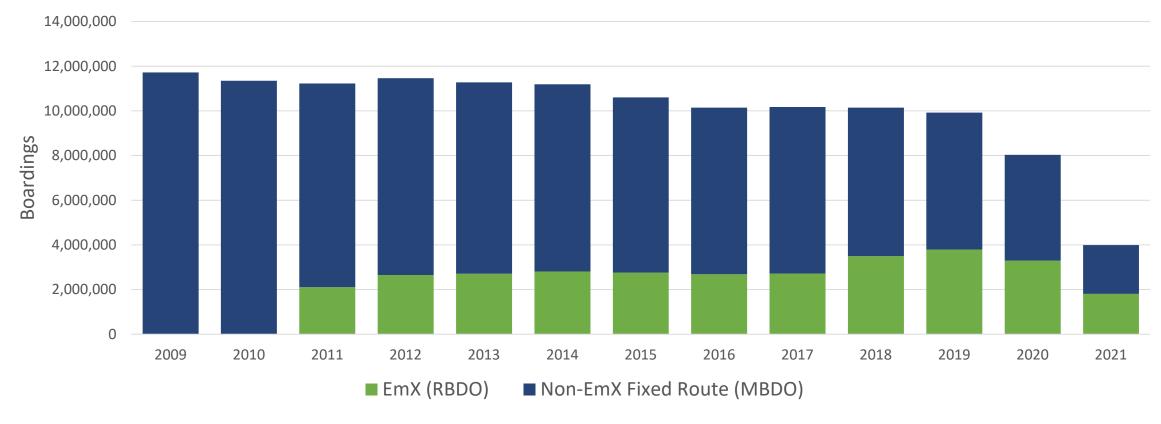






## **Annual LTD Boardings**

Fiscal Year 2009-2021, Fixed Route

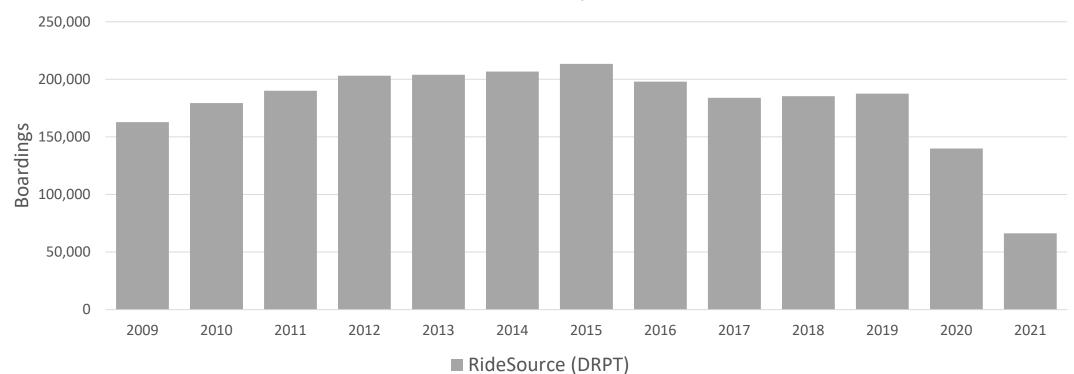






## **Annual LTD Boardings**

Fiscal Year 2009-2021, RideSource

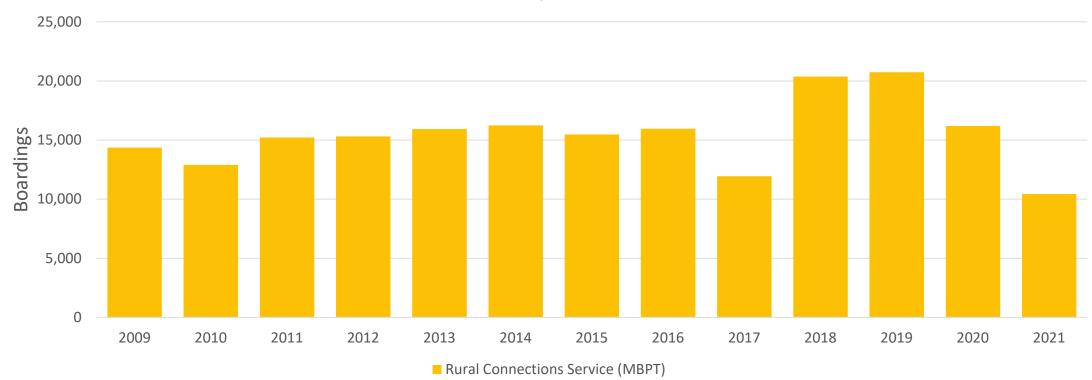






#### **Annual LTD Boardings**

Fiscal Year 2009-2021, Rural Connections Service

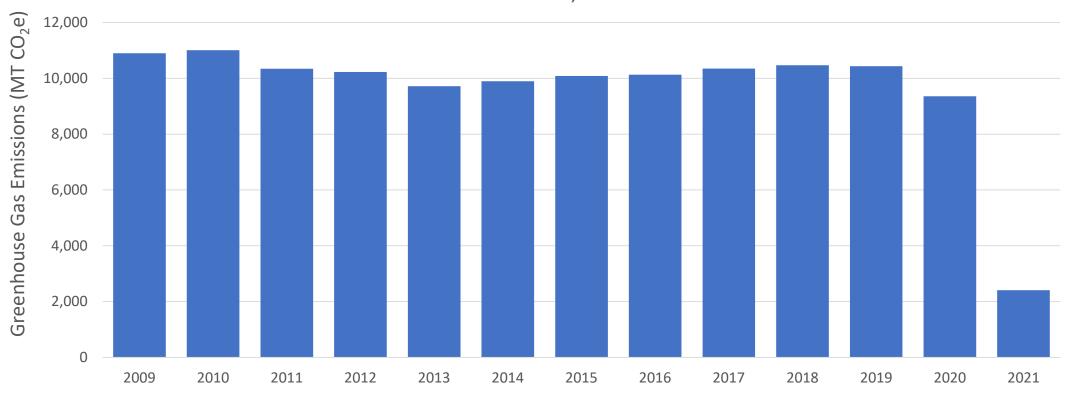


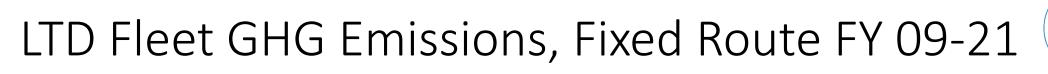




#### **Annual LTD GHG Emissions from Fleet**

FY 2009-2021, All Modes

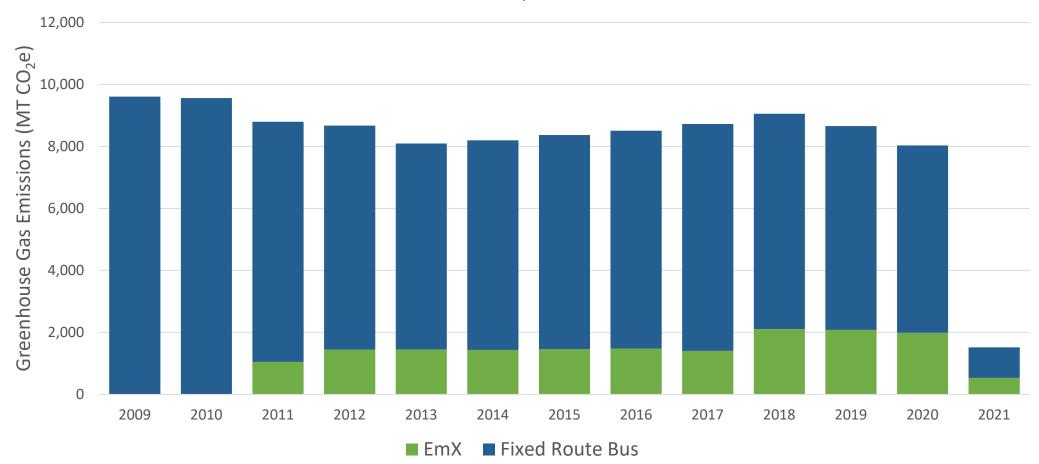






#### **Annual LTD GHG Emissions from Fleet**

FY 2009-2021, Fixed Route

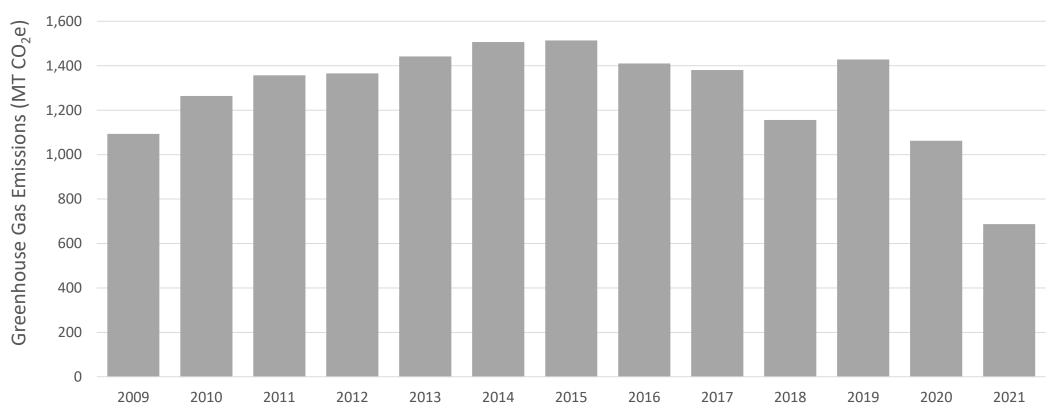






#### **Annual LTD GHG Emissions from Fleet**

FY 2009-2021, RideSource

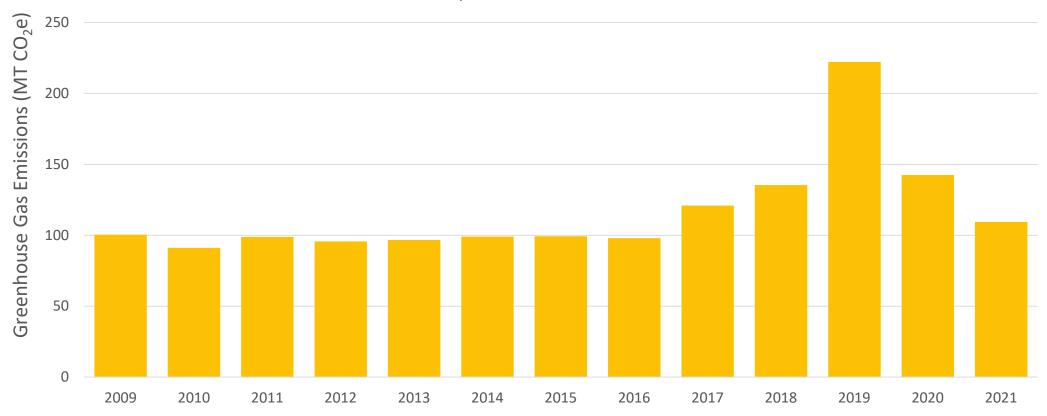




# 1

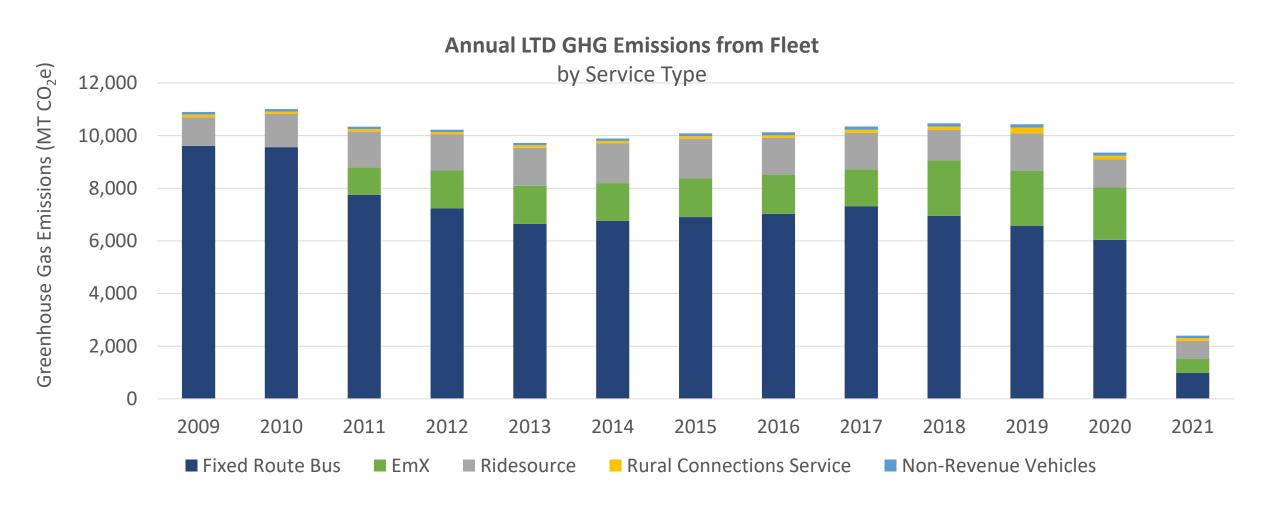
#### **Annual LTD GHG Emissions from Fleet**

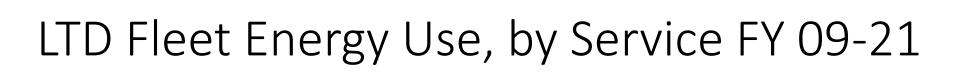
FY 2009-2021, Rural Connection Services



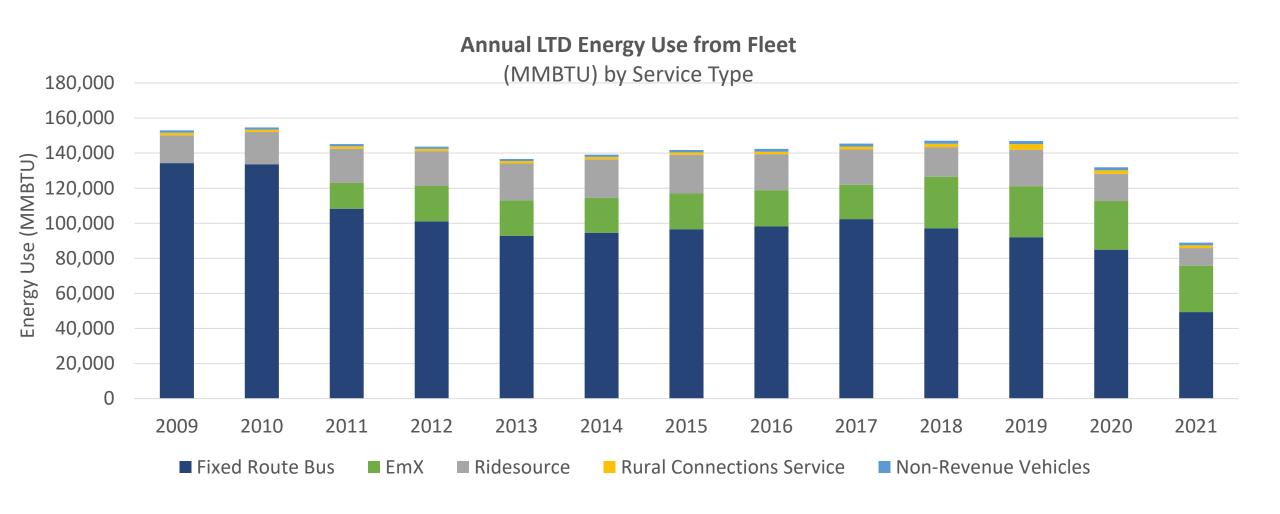


## LTD Fleet GHG Emissions, by Service FY 09-21





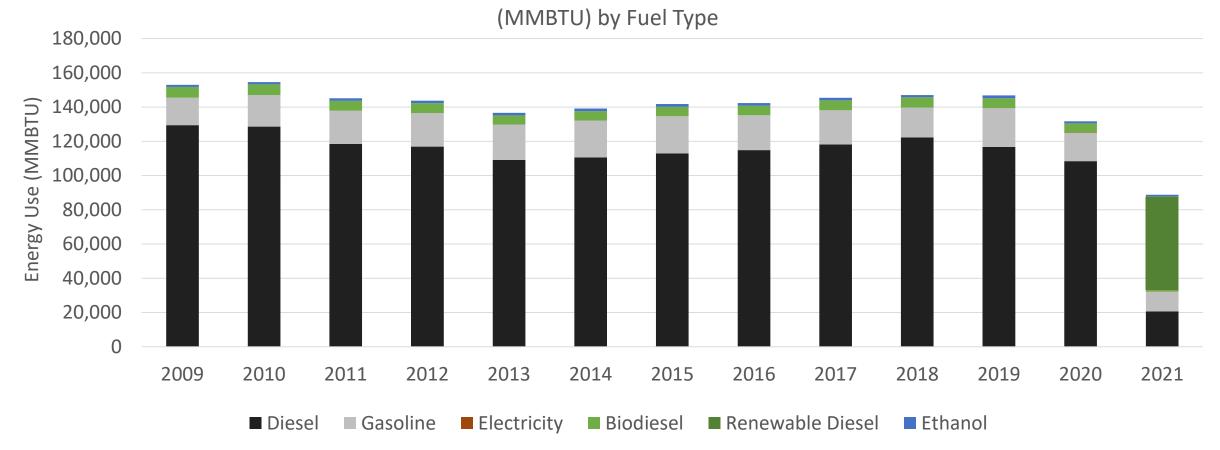




## LTD Fleet Energy Use, by Fuel Type FY 09-21





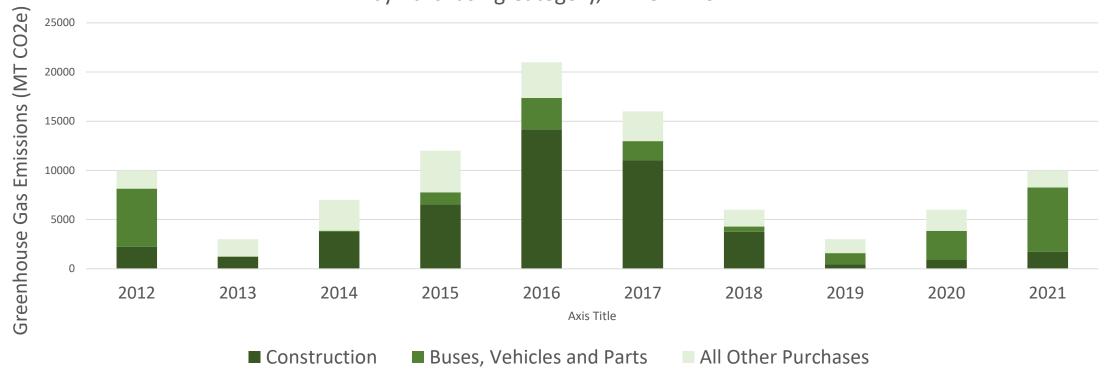






#### **Annual LTD Estimated Supply Chain GHG Emissions**

by Purchasing Category, FY 2012-2021



## LTD GHG Emissions Detail FY 09-21



1		SCOPE 1	7	SCOPE 2		7	SCOPE 3				An	thropogen	ic Emissic	ons	Biogenic Emissions
Inventory Year	Fleet Fuels	Natural Gas	Refrigerants & Processes	FIGURIAL	Upstream Energy	n Business Travel	Solid Waste	Commute	Supply Chain	Scope 1		Scope 3	Scope 1 & Scope 2	Total Emissions	Mobile (biogenic)
	MT CO <sub>2</sub> e	MT CO₂e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e	MT CO <sub>2</sub> e
2009	10,900	359	n/a	157	3,995	0	40	590	n/a	11,259	157	4,625	11,416	16,041	552
2010	11,010	350	n/a	153	4,043	0	40	590	n/a	11,360	153	4,673	11,513	16,186	560
2011	10,327	264	n/a	49	3,773	0	40	590	n/a	10,590	49	4,403	10,640	15,043	528
2012	10,225	267	178	41	3,738	0	40	630	10,000	10,670	41	14,408	10,711	25,119	524
2013	9,719	228	154	46	3,558	0	40	650	3,000	10,100	46	7,248	10,146	17,394	500
2014	9,893	297	207	41	3,641	0	40	650	7,000	10,396	41	11,331	10,438	21,768	510
2015	10,084	287	147	39	3,705	0	40	630	12,000	10,518	39	16,375	10,556	26,931	519
2016	10,129	282	291	31	3,710	20	40	630	21,000	10,702	31	25,400	10,733	36,133	520
2017	10,346	370	249	30	3,809	20	40	760	16,000	10,966	30	20,629	10,995	31,624	530
2018	10,467	381	142	37	3,841	20	50	760	6,000	10,990	37	10,671	11,027	21,698	533
2019	10,433	362	443	86	3,862	10	50	640	3,000	11,238	86	7,562	11,324	18,886	538
2020	9,356	366	319	81	3,453	10	20	570	6,000	10,041	81	10,053	10,122	20,175	477
2021	2,403	351	319	69	2,785	10	20	610	10,000	3,074	69	13,425	3,142	16,567	4,288
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Totals:	125,291	4,164	2,449	860	47,912	90	500	8,300	94,000	131,903	860	150,802	132,763	283,565	10,580