

Alameda-Contra Costa Transit District

Detail Report - Control (Public)

Emissions Year 2023

Description:	AC Transit is the main bus transit operator in the East Bay region of the San Francisco Bay Area, California. AC Transit is the third largest bus operator in California, serving the western portions of Alameda and Contra Costa counties, with a fleet of over 600 buses operating 130 routes.		
Industry:	48 - Transportation and Warehousing		
Address:	1600 Franklin St, Suite 630	Contact: Bettina Kaes	www.actransit.org

Reporting Information

Inventory Type	Complete
Reporting Protocol:	GRP 3.0
GWP Standard:	AR5
Base Year:	2009
Scope 2 method	Location-based and Market-based
Reporting Year Type	Calendar Year
Consolidation Methodology:	Operational Control Only
Status:	TCR Accepted

Verification Information

Verification Body:	TÜV SÜD America, Inc - Ruby Canyon
Level of Assurance:	Reasonable

Entity Emissions | Total in metric tons of CO2e

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Stationary Combustion - Scope 1	2,704.775485	2,696.735873	6.669469	1.370143	0	0	0	0
Mobile Combustion - Scope 1	782.60581	554.368835	5.442897	222.794078	0	0	0	0
Fugitive - Scope 1	1,249.028364	0	0	0	1,249.028364	0	0	0
Total	4,736.409659	3,251.104708	12.112366	224.164221	1,249.028364	0	0	0
Applied Offsets								
Net Total	4,736.409659							

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Purchased Electricity - Location Based - Scope 2	1,595.14166	1,589.071634	2.683591	3.386435	0	0	0	0
Total	1,595.14166	1,589.071634	2.683591	3.386435	0	0	0	0
Applied Offsets								
Net Total	1,595.14166							

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Purchased Electricity - Market Based - Scope 2	1,068.190857	1,068.190857	0	0	0	0	0	0
Total	1,068.190857	1,068.190857	0	0	0	0	0	0
Applied Offsets								
Net Total	1,068.190857							

Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t of CO2e)	N2O (t of CO2e)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t of CO2e)	SF6 (t of CO2e)
Mobile Biomass Combustion - Biomass	44,537.682188	44,537.682188	0	0	0	0	0	0
Total	44,537.682188	44,537.682188	0	0	0	0	0	0
Applied Offsets								
Net Total	44,537.682188							

Entity Emissions | Total in metric tons of gas

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	2,704.775485	2,696.735873	0.238188	0.005163	0	0	0	0
Mobile Combustion - Scope 1	782.60581	554.368835	0.194369	0.840715	0	0	0	0
Fugitive - Scope 1	1,249.028364	0	0	0	1,249.028364	0	0	0
Total	4,736.409659	3,251.104708	0.432557	0.845878	1,249.028364	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	1,595.14166	1,589.071634	0.095837	0.012774	0	0	0	0
Total	1,595.14166	1,589.071634	0.095837	0.012774	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
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Purchased Electricity - Market Based - Scope 2	1,068.190857	1,068.190857	0	0	0	0	0	0
Total	1,068.190857	1,068.190857	0	0	0	0	0	0

Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Biomass Combustion - Biomass	44,537.682188	44,537.682188	0	0	0	0	0	0
Total	44,537.682188	44,537.682188	0	0	0	0	0	0

Simplified Estimation Methods (SEMs)

	Total Estimated CO2e (t)	Total Emissions (t of CO2e)	Estimated CO2e as a Percentage of Total*
Location-based	1,263	50,869	2.48%
Market-based	1,263	50,342	2.51%
*Total based on Scope 1, Scope 2, & biomass emissions			

Facility Emissions | AC Equipment (Buildings)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Fugitive - Scope 1	50.752364	0	0	0	50.752364	0	0	0

Total	50.752364	0	0	0	50.752364	0	0	0
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Facility Emissions | AC Equipment (Fleet)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Fugitive - Scope 1	1,198.276	0	0	0	1,198.276	0	0	0
Total	1,198.276	0	0	0	1,198.276	0	0	0

Facility Emissions | BRT (Stations)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	80.572826	80.266221	0.004841	0.000645	0	0	0	0
Total	80.572826	80.266221	0.004841	0.000645	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	59.707482	59.707482	0	0	0	0	0	0
Total	59.707482	59.707482	0	0	0	0	0	0

Facility Emissions | CMF (Central Maintenance Facility)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	375.53857	374.422468	0.033093	0.000714	0	0	0	0
Total	375.53857	374.422468	0.033093	0.000714	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	260.394838	259.403952	0.015645	0.002086	0	0	0	0
Total	260.394838	259.403952	0.015645	0.002086	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	192.962329	192.962329	0	0	0	0	0	0
Total	192.962329	192.962329	0	0	0	0	0	0

Facility Emissions | D2 (Emeryville Bus Yard)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	213.039664	212.40573	0.018649	0.00042	0	0	0	0
Total	213.039664	212.40573	0.018649	0.00042	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	258.571683	257.587734	0.015536	0.002071	0	0	0	0
Total	258.571683	257.587734	0.015536	0.002071	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	191.611302	191.611302	0	0	0	0	0	0
Total	191.611302	191.611302	0	0	0	0	0	0

Facility Emissions | D3 (Richmond Bus Yard)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	116.907195	116.559162	0.010209	0.000234	0	0	0	0
Total	116.907195	116.559162	0.010209	0.000234	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	155.340771	154.749649	0.009333	0.001244	0	0	0	0
Total	155.340771	154.749649	0.009333	0.001244	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	1.244468	1.244468	0	0	0	0	0	0
Total	1.244468	1.244468	0	0	0	0	0	0

Facility Emissions | D4 (Oakland Bus Yard)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	1,229.561352	1,225.908124	0.108516	0.002319	0	0	0	0
Total	1,229.561352	1,225.908124	0.108516	0.002319	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Facility Emissions | D6 (Hayward Bus Yard)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	322.054107	321.09644	0.028297	0.000623	0	0	0	0
Total	322.054107	321.09644	0.028297	0.000623	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	202.493233	201.722681	0.012166	0.001622	0	0	0	0
Total	202.493233	201.722681	0.012166	0.001622	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	150.05507	150.05507	0	0	0	0	0	0
Total	150.05507	150.05507	0	0	0	0	0	0

Facility Emissions | Fleet

Equity share - 100.00 | Entity controls the facility emissions - Yes

Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Biomass Combustion - Biomass	44,516.96814	44,516.96814	0	0	0	0	0	0
Total	44,516.96814	44,516.96814	0	0	0	0	0	0

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	0	0	0	0	0	0	0	0
Mobile Combustion - Scope 1	227.640977	1.51894	0.183831	0.833866	0	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0	0
Total	227.640977	1.51894	0.183831	0.833866	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	76.500508	76.209399	0.004596	0.000612	0	0	0	0
Total	76.500508	76.209399	0.004596	0.000612	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
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Purchased Electricity - Market Based - Scope 2	56.689742	56.689742	0	0	0	0	0	0
Total	56.689742	56.689742	0	0	0	0	0	0

Facility Emissions | Fleet (non-revenue)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Direct Emissions - Biomass	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Biomass Combustion - Biomass	20.714048	20.714048	0	0	0	0	0	0
Total	20.714048	20.714048	0	0	0	0	0	0

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Mobile Combustion - Scope 1	554.964833	552.849895	0.010538	0.006849	0	0	0	0
Total	554.964833	552.849895	0.010538	0.006849	0	0	0	0

Facility Emissions | Fruitvale Business Park (66th Ave)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	6.772398	6.746628	0.000406	0.000054	0	0	0	0

Total	6.772398	6.746628	0.000406	0.000054	0	0	0	0
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Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	5.018601	5.018601	0	0	0	0	0	0
Total	5.018601	5.018601	0	0	0	0	0	0

Facility Emissions | GO (Corporate Offices)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	418.473827	417.229927	0.036846	0.000799	0	0	0	0
Total	418.473827	417.229927	0.036846	0.000799	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	486.348121	484.497408	0.029221	0.003896	0	0	0	0
Total	486.348121	484.497408	0.029221	0.003896	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	360.402173	360.402173	0	0	0	0	0	0

Total	360.402173	360.402173	0	0	0	0	0	0
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Facility Emissions | Radio Communication Tower

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	1.54164	1.535775	0.000092	0.000012	0	0	0	0
Total	1.54164	1.535775	0.000092	0.000012	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	1.142414	1.142414	0	0	0	0	0	0
Total	1.142414	1.142414	0	0	0	0	0	0

Facility Emissions | TEC (Training Facility)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 1 - Direct Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Stationary Combustion - Scope 1	29.20077	29.114022	0.002578	0.000054	0	0	0	0
Total	29.20077	29.114022	0.002578	0.000054	0	0	0	0

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	42.917984	42.754668	0.002578	0.000343	0	0	0	0
Total	42.917984	42.754668	0.002578	0.000343	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	31.803834	31.803834	0	0	0	0	0	0
Total	31.803834	31.803834	0	0	0	0	0	0

Facility Emissions | Transit Centers (All)

Equity share - 100.00 | Entity controls the facility emissions - Yes

Scope 2 - Location Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Location Based - Scope 2	23.687658	23.597519	0.001423	0.000189	0	0	0	0
Total	23.687658	23.597519	0.001423	0.000189	0	0	0	0

Scope 2 - Market Based - Indirect Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	17.553442	17.553442	0	0	0	0	0	0
Total	17.553442	17.553442	0	0	0	0	0	0

