

Inventory Details

Contact:	Justin Broglio
Reporting Protocol:	GHG Protocol
Sector Specific Protocol:	Local Government Operations Protocol, Water-Energy Nexus Registry Protocol
Reporting Year:	2023
Industry:	22 - Utilities
Base Year:	2023
Address:	875 National Ave Tahoe Vista, California, 96148
Verification Body:	Cameron-Cole, LLC

	Entity-Wide Emissions (mt CO2e)	Water-System Emissions (mt CO2e)	Wastewater-System Emissions (mt CO2e)
Scope 1:	342.386324	153.105115	172.397925
Scope 2 location-based:	437.249014	247.961574	189.28744
Scope 2 market-based:	499.154	283.067	216.087
Scope 3:	186.167387	0	0

	Entity-Wide Biogenic Emissions (mt biogenic CO2)	Water-System Biogenic Emissions (mt biogenic CO2)	Wastewater-System Biogenic Emissions (mt biogenic CO2)
Biogenic - Direct Emissions:	0	0	0
Indirect location-based:	0	0	0
Indirect market-Based:	0	0	0
Upstream:	0	0	0

Water and Wastewater Data	
Total Volume of Water Delivered (AF)	Total Volume of Wastewater Discharged (AF)
1010.27	936.20

	Water System-Average Metrics (mt CO2e / AF)	Wastewater System-Average Metrics (mt CO2e / AF)
Efficiency Metrics		
Anthropogenic Efficiency Metric (location-based)	0.39665	0.385932
Anthropogenic Efficiency Metric (market-based)	0.431399	0.414558
Biogenic Efficiency Metric (location-based)	0	0
Biogenic Efficiency Metric (market-based)	0	0
Delivery Metrics		
Anthropogenic Delivery Metric (location-based)	0.39665	0.385932
Anthropogenic Delivery Metric (market-based)	0.431399	0.414558
Biogenic Delivery Metric (location-based)	0	0

Biogenic Delivery Metric (market-based)	0	0
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Optional Disclosures

Geographic Region:	Northern California	Population Served:	5,500
Water Year:	Wet	Employees:	11 - 50 employees
Water Conservation Targets:	California Make Conservation a Way of Life standards	Water Conservation Savings:	
Topographical and Climatic Makeup:	High elevation, cold winters	Distribution System Type:	D2
Total Water Supply (AF)	1010.28	Total Water Loss (AF)	235.72
Total Recycled Water Delivered or Wastewater Supply (AF):	0	Total Recycled Water Loss or Wastewater Loss (AF):	0

Water System-Average Efficiency Metrics

System-Average Anthropogenic Efficiency Metric (location-based) = 0.39665 mt CO2e/AF

	CO2	CH4	N2O	CO2e
Scope 1 and Scope 2 Emissions Total	399.77021	0.023556	0.00242	400.723865
Total Delivered Water (AF)	1,010.27	1,010.27	1,010.27	1,010.27
System-Average Anthropogenic Efficiency Metric (mt GHG/AF)	0.395706	0.000023	0.000002	0.39665

System-Average Anthropogenic Efficiency Metric (market-based) = 0.431399 mt CO2e/AF

	CO2	CH4	N2O	CO2e
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Scope 1 and Scope 2 Emissions Total	435.8202	0.008657	0.000433	435.82929
Total Delivered Water (AF)	1,010.27	1,010.27	1,010.27	1,010.27
System-Average Anthropogenic Efficiency Metric (mt GHG/AF)	0.43139	0.000009	0	0.431399

Water System-Average Delivery Metrics

System-Average Anthropogenic Delivery Metric (location-based) = 0.39665 mt CO2e/AF

	CO2	CH4	N2O	CO2e
Scope 1 and Scope 2 Emissions Total	399.77021	0.023556	0.00242	400.723865
Total Upstream Emissions (Scope 3)	0	0	0	0
Total Delivered Water (AF)	1,010.27	1,010.27	1,010.27	1,010.27
System-Average Anthropogenic Efficiency Metric (mt GHG/AF)	0.395706	0.000023	0.000002	0.39665

System-Average Anthropogenic Delivery Metric (market-based) = 0.431399 mt CO2e/AF

	CO2	CH4	N2O	CO2e
Scope 1 and Scope 2 Emissions Total	435.8202	0.008657	0.000433	435.82929
Total Upstream Emissions (Scope 3)	0	0	0	0
Total Delivered Water (AF)	1,010.27	1,010.27	1,010.27	1,010.27
System-Average Anthropogenic Efficiency Metric (mt GHG/AF)	0.43139	0.000009	0	0.431399

Wastewater System-Average Efficiency Metrics

System-Average Anthropogenic Efficiency Metric (location-based) = 0.385932 mt CO2e/AF

	CO2	CH4	N2O	CO2e
Scope 1 and Scope 2 Emissions Total	360.579184	0.02057	0.002018	361.309939
Total DischargedWater (AF)	936.2	936.2	936.2	936.2
System-Average Anthropogenic Efficiency Metric (mt GHG/AF)	0.385152	0.000022	0.000002	0.385932

System-Average Anthropogenic Efficiency Metric (market-based) = 0.414558 mt CO2e/AF

	CO2	CH4	N2O	CO2e
Scope 1 and Scope 2 Emissions Total	388.0998	0.009197	0.000501	388.109498
Total DischargedWater (AF)	936.2	936.2	936.2	936.2
System-Average Anthropogenic Efficiency Metric (mt GHG/AF)	0.414548	0.00001	0.000001	0.414558

Wastewater System-Average Delivery Metrics**System-Average Anthropogenic Delivery Metric (location-based) = 0.385932 mt CO2e/AF**

	CO2	CH4	N2O	CO2e
Scope 1 and Scope 2 Emissions Total	360.579184	0.02057	0.002018	361.309939
Total Upstream Emissions (Scope 3)	0	0	0	0
Total DischargedWater (AF)	936.2	936.2	936.2	936.2
System-Average Anthropogenic Delivery Metric (mt GHG/AF)	0.385152	0.000022	0.000002	0.385932

System-Average Anthropogenic Delivery Metric (market-based) = 0.414558 mt CO2e/AF

	CO2	CH4	N2O	CO2e
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Scope 1 and Scope 2 Emissions Total	388.0998	0.009197	0.000501	388.109498
Total Upstream Emissions (Scope 3)	0	0	0	0
Total DischargedWater (AF)	936.2	936.2	936.2	936.2
System-Average Anthropogenic Delivery Metric (mt GHG/AF)	0.414548	0.00001	0.000001	0.414558

System-Average Metrics Comment

Pre-calculated Emissions Percentages

Facility Name	Activity Type	CO2e	Water %	Wastewater %
Building & Facility Energy	Stationary Combustion - Scope 1	124.449782	50.00	50.00
Building & Facility Energy	Purchased Electricity - Market Based - Scope 2	85.754	50.00	50.00
On Road Fleet	Mobile Combustion - Scope 1	39.801568	45.00	55.00
On Road Fleet	Mobile Combustion - Scope 1	136.155139	45.00	55.00
Wastewater Export and Pumping	Stationary Combustion - Scope 1	13.396845	0.00	100.00
Wastewater Export and Pumping	Purchased Electricity - Market Based - Scope 2	173.21	0.00	100.00
Water Production and Distribution	Stationary Combustion - Scope 1	11.699706	100.00	0.00
Water Production and Distribution	Purchased Electricity - Market Based - Scope 2	240.19	100.00	0.00
Water Production and Distribution	Purchased Electricity - Market Based - Scope 2	240.19	100.00	0.00

Calculated Emissions Percentages

Facility Name	Source Name	Activity Type	Fuel Type	Co2e	Water Percentage	Wastewater Percentage
Building & Facility Energy	Liberity Utilites Facility Electricity	Purchased Electricity - Location Based - Scope 2	Regional Grid-Average	75.118156	50.00	50.00
Wastewater Export and Pumping	NTPUD Wastewater Transport Energy - Grid Avg	Purchased Electricity - Location Based - Scope 2	Regional Grid-Average	151.728362	0.00	100.00
Water Production and Distribution	NTPUD electricity for water pumping	Purchased Electricity - Location Based - Scope 2	Regional Grid-Average	210.402495	100.00	0.00