

Description: Denver Water serves treated and raw water to 1.4 million people along the Front Range in Colorado. Energy usage for its water system is relatively low as water flows into its system from the Rocky Mountains. Hydroelectric energy generated by Denver's system normally exceeds energy used to deliver water.

Industry: 81 - Other Services (except Public Administration)

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Denver, Colorado, US

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www.denverwater.org

**Reporting Information**

Inventory Type Complete

Reporting Protocol: GRP 3.0

GWP Standard: SAR

Base Year: 2015

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	3,454.473827	3,442.974144	7.998543	3.50114	0	0	0	0
Mobile Combustion - Scope 1	3,336.003655	3,318.398364	1.611771	15.99352	0	0	0	0
Fugitive - Scope 1	59.937624	0.719374	0	0	26.71425	0	0	32.504
<b>Total</b>	6,850.415106	6,762.091882	9.610314	19.49466	26.71425	0	0	32.504
<b>Applied Offsets</b>								
<b>Net Total</b>	6,850.415106							

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	27,956.446835	27,797.6958	50.682555	108.06848	0	0	0	0
<b>Total</b>	27,956.446835	27,797.6958	50.682555	108.06848	0	0	0	0
<b>Applied Offsets</b>								
<b>Net Total</b>	27,956.446835							

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	22,166.251026	22,012.370302	49.127694	104.75303	0	0	0	0
<b>Total</b>	22,166.251026	22,012.370302	49.127694	104.75303	0	0	0	0
<b>Applied Offsets</b>								
<b>Net Total</b>	22,166.251026							

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)
Stationary Biomass Combustion - Biomass	25.775	25.775	0	0	0	0	0	0
Mobile Biomass Combustion - Biomass	23.194522	23.194522	0	0	0	0	0	0
<b>Total</b>	48.969522	48.969522	0	0	0	0	0	0
<b>Applied Offsets</b>								
<b>Net Total</b>	48.969522							

## 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	3,454.473827	3,442.974144	0.380883	0.011294	0	0	0	0
Mobile Combustion - Scope 1	3,336.003655	3,318.398364	0.076751	0.051592	0	0	0	0
Fugitive - Scope 1	59.937624	0.719374	0	0	26.71425	0	0	0.00136
<b>Total</b>	6,850.415106	6,762.091882	0.457634	0.062886	26.71425	0	0	0.00136

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	27,956.446835	27,797.6958	2.413455	0.348608	0	0	0	0
<b>Total</b>	27,956.446835	27,797.6958	2.413455	0.348608	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)
Purchased Electricity - Market Based - Scope 2	22,166.251026	22,012.370302	2.339414	0.337913	0	0	0	0
<b>Total</b>	22,166.251026	22,012.370302	2.339414	0.337913	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)
Stationary Biomass Combustion - Biomass	25.775	25.775	0	0	0	0	0	0
Mobile Biomass Combustion - Biomass	23.194522	23.194522	0	0	0	0	0	0
<b>Total</b>	48.969522	48.969522	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	195	34,855	0.56%
Market-based	195	29,065	0.67%

\*Total based on Scope 1, Scope 2, & biomass emissions

## Facility Emissions | Administration 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)
Stationary Combustion - Scope 1	92.72626	92.491017	0.008043	0.000214	0	0	0	0
Fugitive - Scope 1	17.933224	0.719374	0	0	17.21385	0	0	0
<b>Total</b>	110.659484	93.210391	0.008043	0.000214	17.21385	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	1,534.403753	1,525.6908	0.132463	0.019133	0	0	0	0
<b>Total</b>	1,534.403753	1,525.6908	0.132463	0.019133	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	1,253.873283	1,245.16033	0.132463	0.019133	0	0	0	0
<b>Total</b>	1,253.873283	1,245.16033	0.132463	0.019133	0	0	0	0

## Facility Emissions | Denver Water Vehicles

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	23.194522	23.194522	0	0	0	0	0	0

<b>Total</b>	23.194522	23.194522	0	0	0	0	0	0
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<b>Scope 1 - Direct Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
Mobile Combustion - Scope 1	3,336.003655	3,318.398364	0.076751	0.051592	0	0	0	0
Fugitive - Scope 1	9.5004	0	0	0	9.5004	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0	0
<b>Total</b>	<b>3,345.504055</b>	<b>3,318.398364</b>	<b>0.076751</b>	<b>0.051592</b>	<b>9.5004</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Facility Emissions | Distribution System

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

<b>Scope 1 - Direct Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
Stationary Combustion - Scope 1	118.002833	117.715356	0.010427	0.000221	0	0	0	0
Fugitive - Scope 1	0	0	0	0	0	0	0	0
<b>Total</b>	<b>118.002833</b>	<b>117.715356</b>	<b>0.010427</b>	<b>0.000221</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

<b>Scope 2 - Location Based - Indirect Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
Purchased Electricity - Location Based - Scope 2	328.459905	326.595	0.028355	0.004095	0	0	0	0

<b>Total</b>	328.459905	326.595	0.028355	0.004095	0	0	0	0
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<b>Scope 2 - Market Based - Indirect Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
Purchased Electricity - Market Based - Scope 2	271.076419	269.211514	0.028355	0.004095	0	0	0	0
<b>Total</b>	271.076419	269.211514	0.028355	0.004095	0	0	0	0

## Facility Emissions | Pump Stations

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

<b>Scope 1 - Direct Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
Stationary Combustion - Scope 1	887.977845	885.778682	0.076763	0.001894	0	0	0	0
Fugitive - Scope 1	0	0	0	0	0	0	0	0
<b>Total</b>	887.977845	885.778682	0.076763	0.001894	0	0	0	0

<b>Scope 2 - Location Based - Indirect Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
Purchased Electricity - Location Based - Scope 2	16,340.972843	16,248.18	1.410703	0.203768	0	0	0	0
<b>Total</b>	16,340.972843	16,248.18	1.410703	0.203768	0	0	0	0

<b>Scope 2 - Market Based - Indirect Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
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Purchased Electricity - Market Based - Scope 2	13,353.404662	13,260.611819	1.410703	0.203768	0	0	0	0
<b>Total</b>	13,353.404662	13,260.611819	1.410703	0.203768	0	0	0	0

## Facility Emissions | SOS Offices

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)
Stationary Biomass Combustion - Biomass	25.775	25.775	0	0	0	0	0	0
<b>Total</b>	25.775	25.775	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	586.178068	581.993267	0.132021	0.004556	0	0	0	0
Fugitive - Scope 1	0	0	0	0	0	0	0	0
Stationary Combustion - Scope 1	0	0	0	0	0	0	0	0
<b>Total</b>	586.178068	581.993267	0.132021	0.004556	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	2,720.196672	2,704.75	0.234832	0.03392	0	0	0	0

<b>Total</b>	2,720.196672	2,704.75	0.234832	0.03392	0	0	0	0
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<b>Scope 2 - Market Based - Indirect Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
Purchased Electricity - Market Based - Scope 2	2,116.993633	2,101.546961	0.234832	0.03392	0	0	0	0
<b>Total</b>	2,116.993633	2,101.546961	0.234832	0.03392	0	0	0	0

## Facility Emissions | Water Treatment Plants

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

<b>Scope 1 - Direct Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
Stationary Combustion - Scope 1	1,769.588821	1,764.995822	0.153629	0.004409	0	0	0	0
Fugitive - Scope 1	32.504	0	0	0	0	0	0	0.00136
<b>Total</b>	1,802.092821	1,764.995822	0.153629	0.004409	0	0	0	0.00136

<b>Scope 2 - Location Based - Indirect Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
Purchased Electricity - Location Based - Scope 2	7,032.413662	6,992.48	0.607102	0.087692	0	0	0	0
<b>Total</b>	7,032.413662	6,992.48	0.607102	0.087692	0	0	0	0

<b>Scope 2 - Market Based - Indirect Emissions</b>	<b>Total CO2e (t)</b>	<b>CO2 (t)</b>	<b>CH4 (t)</b>	<b>N2O (t)</b>	<b>HFC (t of CO2e)</b>	<b>PFC (t of CO2e)</b>	<b>NF3 (t)</b>	<b>SF6 (t)</b>
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Purchased Electricity - Market Based - Scope 2	5,170.903029	5,135.839678	0.533061	0.076997	0	0	0	0
<b>Total</b>	5,170.903029	5,135.839678	0.533061	0.076997	0	0	0	0