

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)		
Address:	1600 W 12th Ave	Contact: Adam Hutchinson	<a href="http://www.denverwater.org">www.denverwater.org</a>

### Reporting Information

Reporting Protocol:	GRP 3.0
GWP Standard:	SAR
Base Year:	2015
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	3,757.695068	3,744.759162	9.335638	3.600268	0	0	0	0
Mobile Combustion - Scope 1	3,319.794551	3,305.894939	1.333567	12.566045	0	0	0	0
Fugitive - Scope 1	157.72505	0.719374	0	0	48.587222	0	0	108.418454
<b>Total</b>	<b>7,235.214669</b>	<b>7,051.373475</b>	<b>10.669205</b>	<b>16.166313</b>	<b>48.587222</b>	<b>0</b>	<b>0</b>	<b>108.418454</b>
<b>Applied Offsets</b>								
<b>Net Total</b>	<b>7,235.214669</b>							

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	22,508.056704	22,379.5335	42.296394	86.22681	0	0	0	0
<b>Total</b>	<b>22,508.056704</b>	<b>22,379.5335</b>	<b>42.296394</b>	<b>86.22681</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Applied Offsets</b>								
<b>Net Total</b>	<b>22,508.056704</b>							

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	19,717.926147	19,589.3652	42.197703	86.363244	0	0	0	0
<b>Total</b>	<b>19,717.926147</b>	<b>19,589.3652</b>	<b>42.197703</b>	<b>86.363244</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Applied Offsets</b>								
<b>Net Total</b>	<b>19,717.926147</b>							

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	41.512362	41.512362	0	0	0	0	0	0
Stationary Combustion - Scope 1	0	0	0	0	0	0	0	0
Mobile Biomass Combustion - Biomass	16.903511	16.903511	0	0	0	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0	0
<b>Total</b>	58.415873	58.415873	0	0	0	0	0	0
<b>Applied Offsets</b>								
<b>Net Total</b>	58.415873							

## 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	3,757.695068	3,744.759162	0.444554	0.011614	0	0	0	0
Mobile Combustion - Scope 1	3,319.794551	3,305.894939	0.063503	0.040536	0	0	0	0
Fugitive - Scope 1	157.72505	0.719374	0	0	48.587222	0	0	0.004536
<b>Total</b>	7,235.214669	7,051.373475	0.508057	0.05215	48.587222	0	0	0.004536

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	22,508.056704	22,379.5335	2.014114	0.278151	0	0	0	0

<b>Total</b>	22,508.056704	22,379.5335	2.014114	0.278151	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 CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Purchased Electricity - Market Based - Scope 2	19,717.926147	19,589.3652	2.009414	0.278591	0	0	0	0
<b>Total</b>	19,717.926147	19,589.3652	2.009414	0.278591	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	41.512362	41.512362	0	0	0	0	0	0
Stationary Combustion - Scope 1	0	0	0	0	0	0	0	0
Mobile Biomass Combustion - Biomass	16.903511	16.903511	0	0	0	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0	0
<b>Total</b>	58.415873	58.415873	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	614	29,802	2.06%
Market-based	614	27,012	2.27%

\*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	134.091001	133.741694	0.011058	0.000378	0	0	0	0
Fugitive - Scope 1	17.829556	0.719374	0	0	6.259582	0	0	0.000454
<b>Total</b>	151.920557	134.461068	0.011058	0.000378	6.259582	0	0	0.000454

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	1,640.47195	1,631.1035	0.14645	0.0203	0	0	0	0
<b>Total</b>	1,640.47195	1,631.1035	0.14645	0.0203	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	1,439.06715	1,429.6987	0.14645	0.0203	0	0	0	0
<b>Total</b>	1,439.06715	1,429.6987	0.14645	0.0203	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	16.903511	16.903511	0	0	0	0	0	0
<b>Total</b>	16.903511	16.903511	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	3,319.794551	3,305.894939	0.063503	0.040536	0	0	0	0
Fugitive - Scope 1	9.46764	0	0	0	9.46764	0	0	0
Mobile Combustion - Scope 1	0	0	0	0	0	0	0	0
<b>Total</b>	3,329.262191	3,305.894939	0.063503	0.040536	9.46764	0	0	0

## Facility Emissions | Distribution System

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	139.365704	139.025869	0.012315	0.000262	0	0	0	0
Fugitive - Scope 1	0	0	0	0	0	0	0	0
<b>Total</b>	139.365704	139.025869	0.012315	0.000262	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	392.8837	390.64	0.0351	0.00486	0	0	0	0
<b>Total</b>	392.8837	390.64	0.0351	0.00486	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	345.7687	343.5126	0.0351	0.0049	0	0	0	0
<b>Total</b>	345.7687	343.5126	0.0351	0.0049	0	0	0	0

## Facility Emissions | Pump Stations

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	934.06339	931.747028	0.080602	0.002012	0	0	0	0
Fugitive - Scope 1	32.522618	0	0	0	0	0	0	0.001361
<b>Total</b>	966.586008	931.747028	0.080602	0.002012	0	0	0	0.001361

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	12,717.11	12,644.5	1.14	0.157	0	0	0	0

<b>Total</b>	12,717.11	12,644.5	1.14	0.157	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	11,155.8192	11,083.1839	1.1353	0.1574	0	0	0	0
<b>Total</b>	11,155.8192	11,083.1839	1.1353	0.1574	0	0	0	0

## Facility Emissions | SOS Offices

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

<b>Direct Emissions - Biomass</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 Biomass Combustion - Biomass	41.512362	41.512362	0	0	0	0	0	0
<b>Total</b>	41.512362	41.512362	0	0	0	0	0	0

<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	642.687667	637.498997	0.173318	0.004997	0	0	0	0
Fugitive - Scope 1	21.681745	0	0	0	0	0	0	0.000907
Stationary Combustion - Scope 1	0	0	0	0	0	0	0	0
<b>Total</b>	664.369412	637.498997	0.173318	0.004997	0	0	0	0.000907



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	1,857.950354	1,847.34	0.165864	0.022991	0	0	0	0
<b>Total</b>	1,857.950354	1,847.34	0.165864	0.022991	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	1,534.250397	1,523.64	0.165864	0.022991	0	0	0	0
<b>Total</b>	1,534.250397	1,523.64	0.165864	0.022991	0	0	0	0

## Facility Emissions | Water Treatment Plants

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	1,907.487306	1,902.745574	0.167261	0.003965	0	0	0	0
Fugitive - Scope 1	76.223491	0	0	0	32.86	0	0	0.001814
<b>Total</b>	1,983.710797	1,902.745574	0.167261	0.003965	32.86	0	0	0.001814

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	5,899.6407	5,865.95	0.5267	0.073	0	0	0	0

<b>Total</b>	5,899.6407	5,865.95	0.5267	0.073	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	5,243.0207	5,209.33	0.5267	0.073	0	0	0	0
<b>Total</b>	5,243.0207	5,209.33	0.5267	0.073	0	0	0	0