

Description: The Metropolitan Water District of Southern California (MWD) is a consortium of 26 cities and water districts that provides drinking water to nearly 18 million people in parts of Los Angeles, Orange, San Diego, Riverside, San Bernardino, and Ventura Counties. The mission of MWD is to provide its service area with adequate and reliable supplies of high quality water to meet present and future need. MWD's self-defined boundary excludes location-based emissions.

Industry: 22 - Utilities

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Reporting Information

Reporting Protocol: GRP 3.0

GWP Standard: SAR

Base Year: 1990

Consolidation Methodology: Operational Control Only

Status: TCR Accepted

Verification Information

Verification Body: Scientific Certification Systems

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	1,626.39522	1,620.573	3.64602	2.1762	0	0	0	0
Mobile Combustion - Scope 1	6,991.1276	6,938.35	4.1076	48.67	0	0	0	0
Fugitive - Scope 1	107.5111	0.446	0	0	107.0651	0	0	0
Total	8,725.03392	8,559.369	7.75362	50.8462	107.0651	0	0	0
Applied Offsets								
Net Total	8,725.03392							

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	125,512.531	125,066.5397	153.5373	292.454	0	0	0	0
Total	125,512.531	125,066.5397	153.5373	292.454	0	0	0	0
Applied Offsets								
Net Total	125,512.531							

Scope 3 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)
Scope 3 (Optional)	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Applied Offsets								
Net Total	0							

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	1,626.39522	1,620.573	0.17362	0.00702	0	0	0	0
Mobile Combustion - Scope 1	6,991.1276	6,938.35	0.1956	0.157	0	0	0	0
Fugitive - Scope 1	107.5111	0.446	0	0	107.0651	0	0	0
Total	8,725.03392	8,559.369	0.36922	0.16402	107.0651	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	125,512.531	125,066.5397	7.3113	0.9434	0	0	0	0
Total	125,512.531	125,066.5397	7.3113	0.9434	0	0	0	0

Scope 3 Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC CO2e (t of CO2e)	NF3 (t)	SF6 (t)
Scope 3 (Optional)	0	0	0	0	0	0	0	0
Total	0	0	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	N/A	N/A	N/A
Market-based	7,600	134,238	5.66%

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

Facility Emissions | Aircrafts 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)
Mobile Combustion - Scope 1	133.59	132.35	0	0.004	0	0	0	0
Total	133.59	132.35	0	0.004	0	0	0	0

Facility Emissions | Eagle Mountain Pumping Plant

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	0.0178	0.0178	0	0	0	0	0	0
Total	0.0178	0.0178	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	29,721.1027	29,616.9107	1.708	0.2204	0	0	0	0

Total	29,721.1027	29,616.9107	1.708	0.2204	0	0	0	0
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Scope 3 Emissions	Total CO2e (t)	CO2 (t)	CH4 (t)	N2O (t)	HFC (t of CO2e)	PFC (t of CO2e)	NF3 (t)	SF6 (t)
Scope 3 (Optional)	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Facility Emissions | F. E. Weymouth WTP

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	604.80321	603.297	0.05401	0.0012	0	0	0	0
Fugitive - Scope 1	1.5247	0.1784	0	0	1.3463	0	0	0
Total	606.32791	603.4754	0.05401	0.0012	1.3463	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	2,431.454	2,422.934	0.14	0.018	0	0	0	0
Total	2,431.454	2,422.934	0.14	0.018	0	0	0	0

Facility Emissions | Gene Pumping Plant

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	0.0178	0.0178	0	0	0	0	0	0
Total	0.0178	0.0178	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	20,733.1645	20,660.465	1.1915	0.1538	0	0	0	0
Total	20,733.1645	20,660.465	1.1915	0.1538	0	0	0	0

Facility Emissions | Greg Ave Pump Station

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

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	35.815	35.68	0.002	0.0003	0	0	0	0
Total	35.815	35.68	0.002	0.0003	0	0	0	0

Facility Emissions | Henry J. Mills WTP

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	20.05378	20.004	0.00178	0.00004	0	0	0	0
Fugitive - Scope 1	0.0268	0.0268	0	0	0	0	0	0
Total	20.08058	20.0308	0.00178	0.00004	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	1,180.723	1,176.567	0.068	0.0088	0	0	0	0
Total	1,180.723	1,176.567	0.068	0.0088	0	0	0	0

Facility Emissions | Hiram W. Wadsworth Pumping Plant

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

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	515.681	513.79	0.031	0.004	0	0	0	0
Total	515.681	513.79	0.031	0.004	0	0	0	0

Facility Emissions | Iron Mountain Pumping Plant

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	1.53235	1.524	0.00025	0.00001	0	0	0	0
Fugitive - Scope 1	0.0178	0.0178	0	0	0	0	0	0
Total	1.55015	1.5418	0.00025	0.00001	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	10,164.775	10,129.261	0.584	0.075	0	0	0	0
Total	10,164.775	10,129.261	0.584	0.075	0	0	0	0

Facility Emissions | Joseph P. Jensen WTP

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	102.32574	102.077	0.00904	0.00019	0	0	0	0
Fugitive - Scope 1	18.0045	0.0268	0	0	17.9777	0	0	0
Total	120.33024	102.1038	0.00904	0.00019	17.9777	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	2,037.895	2,030.788	0.117	0.015	0	0	0	0
Total	2,037.895	2,030.788	0.117	0.015	0	0	0	0

Facility Emissions | Julian Hinds Pumping Plant

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	2.68733	2.669	0.00043	0.00003	0	0	0	0
Fugitive - Scope 1	0.0178	0.0178	0	0	0	0	0	0
Total	2.70513	2.6868	0.00043	0.00003	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	29,831.381	29,726.877	1.714	0.221	0	0	0	0
Total	29,831.381	29,726.877	1.714	0.221	0	0	0	0

Facility Emissions | Misc Energy use

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	3.32119	3.312	0.00029	0.00001	0	0	0	0
Fugitive - Scope 1	0	0	0	0	0	0	0	0
Total	3.32119	3.312	0.00029	0.00001	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	130.327	129.87	0.007	0.001	0	0	0	0
Total	130.327	129.87	0.007	0.001	0	0	0	0

Facility Emissions | OC-88 Pumping 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)
Fugitive - Scope 1	51.9	0	0	0	51.9	0	0	0
Total	51.9	0	0	0	51.9	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	548.3605	545.576	0.0455	0.0059	0	0	0	0

Total	548.3605	545.576	0.0455	0.0059	0	0	0	0
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Facility Emissions | Other Facilities

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	128.75538	128.442	0.01138	0.00024	0	0	0	0
Fugitive - Scope 1	0.0357	0.0357	0	0	0	0	0	0
Total	128.79108	128.4777	0.01138	0.00024	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	1,518.261	1,512.63	0.091	0.012	0	0	0	0
Total	1,518.261	1,512.63	0.091	0.012	0	0	0	0

Facility Emissions | Power Plants & Pressure Control Structures

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	0.98689	0.985	0.00009	0	0	0	0	0

Fugitive - Scope 1	0.0391	0	0	0	0.0391	0	0	0
Total	1.02599	0.985	0.00009	0	0.0391	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	102.4556	97.83	0.0756	0.0098	0	0	0	0
Total	102.4556	97.83	0.0756	0.0098	0	0	0	0

Facility Emissions | Reservoirs

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	114.55311	114.231	0.01091	0.0003	0	0	0	0
Fugitive - Scope 1	8.1966	0.0357	0	0	8.1609	0	0	0
Total	122.74971	114.2667	0.01091	0.0003	8.1609	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	458.737	456.41	0.037	0.005	0	0	0	0
Total	458.737	456.41	0.037	0.005	0	0	0	0

Facility Emissions | Robert A. Skinner WTP

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	1.57945	1.568	0.00025	0.00002	0	0	0	0
Fugitive - Scope 1	7.5964	0.0268	0	0	7.5696	0	0	0
Total	9.17585	1.5948	0.00025	0.00002	7.5696	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	1,948.289	1,941.597	0.112	0.014	0	0	0	0
Total	1,948.289	1,941.597	0.112	0.014	0	0	0	0

Facility Emissions | Robert B. Diemer WTP

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	36.48032	36.391	0.00322	0.00007	0	0	0	0
Fugitive - Scope 1	1.2983	0.0268	0	0	1.2715	0	0	0

Total	37.77862	36.4178	0.00322	0.00007	1.2715	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	2,157.861	2,150.297	0.124	0.016	0	0	0	0
Total	2,157.861	2,150.297	0.124	0.016	0	0	0	0

Facility Emissions | T&D Losses for 230 kV System

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

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	2,204.7447	2,197	0.1267	0.0164	0	0	0	0
Total	2,204.7447	2,197	0.1267	0.0164	0	0	0	0

Facility Emissions | Vehicle 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)
Stationary Combustion - Scope 1	608.2368	605	0.0818	0.0049	0	0	0	0
Mobile Combustion - Scope 1	6,857.5376	6,806	0.1956	0.153	0	0	0	0

Fugitive - Scope 1	18.8	0	0	0	18.8	0	0	0
Total	7,484.5744	7,411	0.2774	0.1579	18.8	0	0	0

Facility Emissions | Whitsett Intake Pumping Plant

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	1.07967	1.073	0.00017	0.00001	0	0	0	0
Fugitive - Scope 1	0.0178	0.0178	0	0	0	0	0	0
Total	1.09747	1.0908	0.00017	0.00001	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	19,791.504	19,722.057	1.137	0.147	0	0	0	0
Total	19,791.504	19,722.057	1.137	0.147	0	0	0	0