

Description:	Established in 1887, the Turlock Irrigation District (TID) was the first publicly owned irrigation district in the state and is one of only four in California today that also provides electric retail energy directly to homes, farms and businesses. Organized under the Wright Act, the District operates under the provisions of the California Water Code as a special district. TID is also an independent control area and is governed by a five member Board of Directors.		
	Since 1923, TID has been providing safe, affordable and reliable electricity to a growing retail customer base that now numbers in excess of 98,000 residential, farm, business, industrial and municipal accounts in an electric service area that encompasses 662 square-miles in portions of Stanislaus, Merced, Tuolumne and Mariposa counties.		
	TID provides irrigation water to more than 5,800 growers in a 307 square-mile service area that incorporates 149,500 acres of Central Valley farmland. The District has been delivering irrigation water to growers since completing its gravity-fed water conveyance system of canals and laterals in 1900. The Tuolumne River is the District's primary source of water, originating at Mt. Lyell in Yosemite National Park. Water for irrigation and hydroelectric power production is kept at Don Pedro Reservoir about 50 miles east of Turlock in the Sierra Nevada foothills near the historic gold rush era town of La Grange.		
Industry:	22 - Utilities		
Address:	333 East Canal Dr, Turlock, California, US	Contact: Cory Sobotta	www.tid.org

Reporting Information

Inventory Type	Complete
Reporting Protocol:	GRP 3.0
GWP Standard:	AR5
Base Year:	
Scope 2 method	N/A - No Base Year reported
Reporting Year Type	Calendar Year
Consolidation Methodology:	Operational Control Only

Status: TCR Accepted

Verification Information

Verification Body: Cameron-Cole, LLC

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	787,759.193016	777,307.106355	520.242009	9,931.844652	0	0	0	0
Mobile Combustion - Scope 1	2,516.006131	2,494.822972	4.705825	16.477334	0	0	0	0
Fugitive - Scope 1	32.79775	1.4	0	0	25.00199	0	0	6.39576
Total	790,307.996897	779,803.329327	524.947834	9,948.321986	25.00199	0	0	6.39576
Applied Offsets								
Net Total	790,307.996897							

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	9,669.556214	9,626.717511	18.99359	23.845113	0	0	0	0
Purchased Heating - Location Based - Scope 2	0	0	0	0	0	0	0	0
Total	9,669.556214	9,626.717511	18.99359	23.845113	0	0	0	0
Applied Offsets								
Net Total	9,669.556214							

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	6,771.265642	6,742.805859	12.57616	15.883623	0	0	0	0
Purchased Heating - Market Based - Scope 2	0	0	0	0	0	0	0	0

Total	6,771.265642	6,742.805859	12.57616	15.883623	0	0	0	0
Applied Offsets								
Net Total	6,771.265642							

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	787,759.193016	777,307.106355	18.580062	37.478651	0	0	0	0
Mobile Combustion - Scope 1	2,516.006131	2,494.822972	0.168061	0.062175	0	0	0	0
Fugitive - Scope 1	32.79775	1.4	0	0	25.00199	0	0	0.000272
Total	790,307.996897	779,803.329327	18.748123	37.540826	25.00199	0	0	0.000272

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	9,669.556214	9,626.717511	0.678338	0.089977	0	0	0	0
Purchased Heating - Location Based - Scope 2	0	0	0	0	0	0	0	0
Total	9,669.556214	9,626.717511	0.678338	0.089977	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	6,771.265642	6,742.805859	0.449145	0.059935	0	0	0	0

Purchased Heating - Market Based - Scope 2	0	0	0	0	0	0	0	0
Total	6,771.265642	6,742.805859	0.449145	0.059935	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	0	799,978	0.00%
Market-based	0	797,079	0.00%

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

Facility Emissions | Almond 2 Power 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	58,773.000332	58,393.43202	4.181964	0.990465	0	0	0	0
Total	58,773.000332	58,393.43202	4.181964	0.990465	0	0	0	0

Facility Emissions | Almond Power 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	39,515.722673	39,260.532752	2.811616	0.665903	0	0	0	0
Fugitive - Scope 1	0.01	0.01	0	0	0	0	0	0
Total	39,515.732673	39,260.542752	2.811616	0.665903	0	0	0	0

Facility Emissions | 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	78.2157	77.983342	0.006904	0.000143	0	0	0	0
Total	78.2157	77.983342	0.006904	0.000143	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 Heating - 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)
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Purchased Heating - Market Based - Scope 2	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

Facility Emissions | Don Pedro Recreation Agency

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	252.887972	250.323233	0.040428	0.005404	0	0	0	0
Total	252.887972	250.323233	0.040428	0.005404	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 | Emergency Generators

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	2.75047	2.73988	0.000129	0.000025	0	0	0	0
Total	2.75047	2.73988	0.000129	0.000025	0	0	0	0

Facility Emissions | Mobile Fleet Combustion Emissions

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	2,263.118159	2,244.499739	0.127633	0.056771	0	0	0	0
Fugitive - Scope 1	25.00199	0	0	0	25.00199	0	0	0
Total	2,288.120149	2,244.499739	0.127633	0.056771	25.00199	0	0	0

Facility Emissions | Power Plants and Substations

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	26.587881	26.495439	0.001543	0.000183	0	0	0	0

Total	26.587881	26.495439	0.001543	0.000183	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	12.84916	12.756718	0.001543	0.000183	0	0	0	0
Total	12.84916	12.756718	0.001543	0.000183	0	0	0	0

Facility Emissions | Transmission and 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)
Fugitive - Scope 1	6.39576	0	0	0	0	0	0	0.000272
Total	6.39576	0	0	0	0	0	0	0.000272

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	9,642.968333	9,600.222072	0.676795	0.089794	0	0	0	0
Total	9,642.968333	9,600.222072	0.676795	0.089794	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	6,758.416482	6,730.049141	0.447602	0.059752	0	0	0	0

Total	6,758.416482	6,730.049141	0.447602	0.059752	0	0	0	0
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Facility Emissions | Walnut Energy Center

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	688,332.378866	678,521.612367	11.509135	35.8057	0	0	0	0
Fugitive - Scope 1	1.39	1.39	0	0	0	0	0	0
Total	688,333.768866	678,523.002367	11.509135	35.8057	0	0	0	0

Facility Emissions | Walnut Power 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	1,057.124975	1,050.805994	0.070314	0.016415	0	0	0	0
Fugitive - Scope 1	0	0	0	0	0	0	0	0
Total	1,057.124975	1,050.805994	0.070314	0.016415	0	0	0	0