



2023 ANNUAL REPORT

TURLOCK IRRIGATION DISTRICT

VALUE OF TID



MESSAGE FROM THE GENERAL MANAGER

I always look forward to the opportunity to look back at our successes, appreciate what we've overcome, and celebrate the incredible work happening throughout the District by our talented and dedicated employees.

The 2023 annual report will highlight the value of TID, specifically the value of the District's reliability, local control, knowledge, infrastructure, innovation and history. We continued to raise the importance of TID in each of these areas in 2023. From spearheading new innovative programs in support of groundwater recharge, to keeping our commitments to our customers through the maintenance of our infrastructure while combating continued supply chain challenges and historic peak loads. Our team put their knowledge to the test and took on new challenges like the design and construction of the Ceres Main Regulating Reservoir.

I hope that looking back on all that TID has accomplished in 2023 illustrates the significance of the work that took place throughout the year. TID customers benefit from strategic investments and partnerships that help guide our operations and allow the District to provide reliable services today and into the future, and its value to the community cannot be denied.

MICHELLE REIMERS
General Manager

VALUE OF RELIABILITY

A great amount of time, talent and experience goes into maintaining our resources each year to ensure we can meet the needs of our customers today and into the future.



2023 WATER YEAR

- Third wettest** year on record
- 48 inches available water** per parcel
- 176.5% precipitation** compared to average year
- 1,718,610 acre-feet of water** in storage at Don Pedro storage at the end of the water year

2023 POWER

- \$6.79 million** Energy Imbalance Market benefit to the District
- 16** triple digit days
- 692 MW peak load** in August
- 61 minutes** System Average Interruption Duration Index (SAIDI)



CUSTOMER SERVICE



- 139,416 customer calls** answered by Customer Service Representatives
- 886,279 payments processed** (all payment types)

TID QUICK FACTS

NUMBER OF EMPLOYEES

458

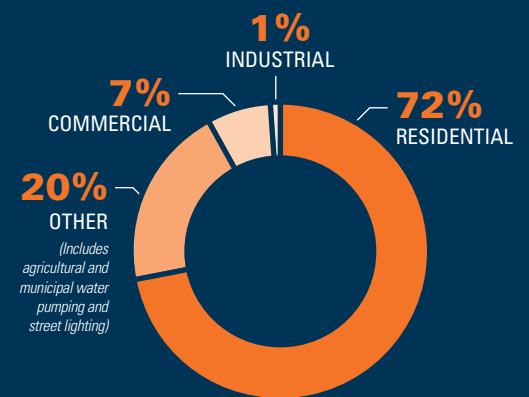
ELECTRIC SERVICE AREA

662 square miles

ELECTRIC POPULATION SERVED

240,000

ELECTRIC SERVICE CUSTOMER BREAKDOWN



IRRIGATION SERVICE AREA

307 square miles

IRRIGATION ACCOUNTS

4,700

MILES OF GRAVITY-FED CANALS

250 miles

IRRIGATED ACRES

146,791 acres

VALUE OF LOCAL CONTROL

TID is a community-owned utility managed by locally elected Board members who have the decision-making authority to act on the current and future needs of the District for the benefit of our customers and community.



4,080

CUSTOMERS ENROLLED IN THE CARES PAYMENT ASSISTANCE PROGRAM

\$262

AVERAGE ANNUAL DISCOUNT PER CUSTOMER



1,902

CUSTOMERS ENROLLED IN THE MEDICAL ASSISTANCE PROGRAM



\$918,558

LIHEAP DOLLARS RECEIVED BY ELIGIBLE CUSTOMERS



1,251

RESIDENTIAL ENERGY EFFICIENCY REBATES ISSUED



\$1,104,050

TOTAL DOLLARS PROVIDED BACK TO CUSTOMERS THROUGH ENERGY EFFICIENCY PROGRAMS



6,366

MWHS ENERGY EFFICIENCY SAVINGS
(Residential and Non-Residential)



\$297,503

TOTAL DOLLARS PROVIDED BACK TO CUSTOMERS THROUGH ELECTRIC VEHICLE REBATES



408

ELECTRIC VEHICLE REBATES ISSUED IN 2023
(Residential and Commercial)



202

ELECTRIC VEHICLE CHARGER REBATES ISSUED IN 2023
(Residential and Commercial)



6

LEVEL 2 ELECTRIC VEHICLE CHARGERS INSTALLED
by TID within TID's service territory

VALUE OF KNOWLEDGE

TID is proud to be recognized as a trusted partner and actively seeks out ways to engage with our community through events and educational programs.



COMMUNITY ENGAGEMENT

Participated in **41 community events**

Celebration of Water & Power

» *Over 1,000 customers, employees and families attended*

Team TID – an employee give-back nonprofit

» *\$2,500 raised through 8 events to support the community*



EDUCATION ACTIVITIES

TID's Water & Power Podcast

- » 18 Guests
- » 4,762 Downloads

TID's Technical Skills Series – Construction and Maintenance

- » 6 week program that provided hands-on training for interested participants
- » 96 applications received

Operations & Facilities Tour Video

- » 19 TID tour guides and locations featured
- » 2,000+ views

Customer Academy

- » 5 Sessions
- » 12 Locations Toured
- » 21 Customer Participants
- » 27 TID Presenters



VALUE OF INFRASTRUCTURE

In order to uphold our mission of reliability, significant effort goes into the maintenance of TID's vital structures and facilities.

DISTRICT IMPROVEMENTS

TID's evaluation of and reconductoring of electric distribution lines is an important investment in TID's resources. Line crews conducted three restring projects, improving approximately six miles of distribution lines.



5,705
POLES INSPECTED



8,321
TREES CUT FOR
VEGETATION
MANAGEMENT



2.1 miles
OF CONDUIT
INSTALLED



251
POLES REPLACED



819
ENGINEERING AND
DESIGN PROJECTS
COMPLETED

VALUE OF INNOVATION

TID has invested in emerging technology and programs that have produced results that exceeded the anticipated benefits, enabling us to maximize the resources trusted to us.



CERES MAIN REGULATING RESERVOIR

TID completed the construction of its second regulating reservoir. The Ceres Main Regulating Reservoir enhances our water operations and has an anticipated water savings of 10,000 acre-feet annually. The regulating reservoir was designed and constructed almost entirely by TID staff.



FORECASTING TOOLS

In the 2023 water year, TID was able to offset \$20 million in natural gas prices by utilizing innovative technologies. The Airborne Snow Observatory (ASO) program and the Forecast-Informed Reservoir Operations (FIRO) program, both supported the enhancement of TID's water management operations. Using these tools, TID has also developed its own in-house hydrologic models. TID's Hydrocomp Forecasting and Analysis Model (HFAM) is one of the only hourly and physically based models used for water operations in the state of California.



GROUNDWATER RECHARGE

TID utilized flood flows from winter storms to recharge the groundwater aquifer. The pilot program, Flood Mar, used potential flood water created by storms to irrigate the identified parcels and infiltrate land to replenish aquifers.

HISTORICAL OPERATING STATISTICS

(\$ in thousands)

	2023	2022	2021	2020	2019
AVERAGE CUSTOMERS AT END OF PERIOD					
Residential	75,883	75,459	75,238	74,376	73,978
Commercial	7,531	7,493	7,469	7,386	7,320
Industrial	952	914	883	876	883
Other (1)	10,678	10,533	10,326	21,346	21,085
Total	95,044	94,399	93,916	103,984	103,266
MW_H SALES					
Residential	786,419	812,271	826,440	821,010	745,512
Commercial	135,912	141,083	141,141	134,617	134,018
Industrial	858,725	855,969	843,108	808,223	792,909
Other (1)	381,267	443,219	413,741	399,657	373,378
Total Retail	2,162,323	2,252,542	2,224,430	2,163,507	2,045,817
Interdepartmental meters	53,706	53,557	50,595	49,925	48,470
Wholesale Power	1,196,236	1,098,092	1,214,391	1,124,759	1,307,447
Total	3,412,265	3,404,191	3,489,416	3,338,191	3,401,734
SOURCES OF MW_H					
Generated by district	2,666,127	2,309,324	2,171,463	2,182,107	2,136,572
Purchased	808,005	1,169,589	1,404,758	1,244,994	1,341,973
Subtotal	3,474,132	3,478,913	3,576,221	3,427,101	3,478,545
System losses	61,867	74,722	86,805	88,909	76,811
Total	3,412,265	3,404,191	3,489,416	3,338,192	3,401,734
ELECTRIC ENERGY REVENUES (IN THOUSANDS)					
Residential	\$134,223	\$130,741	\$132,132	\$130,991	\$119,534
Commercial	20,723	20,122	19,993	19,186	19,039
Industrial	111,947	102,935	100,311	96,630	95,450
Other (1)	56,249	59,767	55,868	54,167	51,031
Power Supply Adjustment Recognized (Deferred)	34,390	775	(18,813)	(25,935)	(30,235)
Rate Stabilization Transfer	(12,145)	27,757	0	0	9,570
Total Retail Energy	345,387	342,097	289,491	275,039	264,389
Electric Service Charges	530	630	323	246	409
Other Electric Revenue	53	46	20	38	38
Electric Energy Retail	345,970	342,773	289,834	275,323	264,836
Wholesale Power	90,925	120,579	78,830	47,052	54,980
Total	\$436,895	\$463,352	\$368,664	\$322,375	\$319,816
SYSTEM PEAK DEMAND (MW)	567	594	562	571	537
AVERAGE MW_H SALES PER CUSTOMER					
Residential	10.364	10.764	10.984	11.039	10.077
Commercial	18.047	18.829	18.897	18.226	18.308
Industrial	902.022	936.509	954.822	922.629	897.972
AVERAGE REVENUE PER MW_H					
Residential	\$170.68	\$160.96	\$159.88	\$159.55	\$160.34
Commercial	\$152.47	\$142.63	\$141.65	\$142.52	\$142.06
Industrial	\$130.36	\$120.26	\$118.98	\$119.56	\$120.38
AVERAGE COST OF POWER PER KWH FOR RETAIL LOAD (2)					
	\$0.085	\$0.079	\$0.068	\$0.064	\$0.065

(1) Includes agricultural and municipal water pumping and street lighting.
(2) Includes depletion and depreciation on generation assets, excludes debt service.

HISTORICAL RESULTS OF OPERATIONS

(\$ in thousands)

	2023	2022	2021	2020	2019
OPERATING REVENUES					
Electric energy - Retail	\$345,970	\$342,773	\$289,834	\$275,323	\$264,836
Electric energy - Wholesale	90,925	120,579	78,830	47,052	54,980
Wholesale Gas	3,423	8,888	5,237	2,005	3,600
Irrigation	14,224	14,711	15,138	13,213	13,314
Other	185	577	1,913	4,383	6,237
Total Operating Revenue	454,727	487,528	390,952	341,976	342,967
OPERATING EXPENSES					
Power Supply					
Purchased Power	82,190	107,226	80,532	58,027	50,537
Generation and Fuel	153,638	150,159	105,616	83,200	93,607
Total Power Supply	235,828	257,385	186,148	141,227	144,144
Other Electric O&M	34,415	34,620	25,412	25,415	26,008
Irrigation O&M	15,366	17,004	13,708	13,996	14,126
Public Benefits	5,014	5,371	4,384	5,119	4,732
Administration and General	32,214	36,485	29,340	27,431	26,687
Depreciation and amortization	64,227	67,687	69,159	65,276	65,793
Total Operating Expenses	387,064	418,552	328,151	278,464	281,490
Operating Income	67,663	68,976	62,801	63,512	61,477
OTHER INCOME (EXPENSE)					
Interest/Derivative (loss) gain	7,082	2,112	3,078	7,243	6,723
Miscellaneous	16,399	15,756	11,978	10,407	10,278
Total Other Income	23,481	17,868	15,056	17,650	17,001
INTEREST EXPENSE					
Long Term Debt	34,081	35,604	36,831	44,544	48,334
NET INCOME (LOSS)	57,063	51,240	41,026	36,618	30,144
NET POSITION					
Beginning of Year	544,022	492,782	451,756	415,138	384,994
End of Year	\$601,085	\$544,022	\$492,782	\$451,756	\$415,138
DEBT SERVICE COVERAGE - REVENUE BONDS/COP'S	3.00x	2.47x	4.22x	3.76x	3.54x

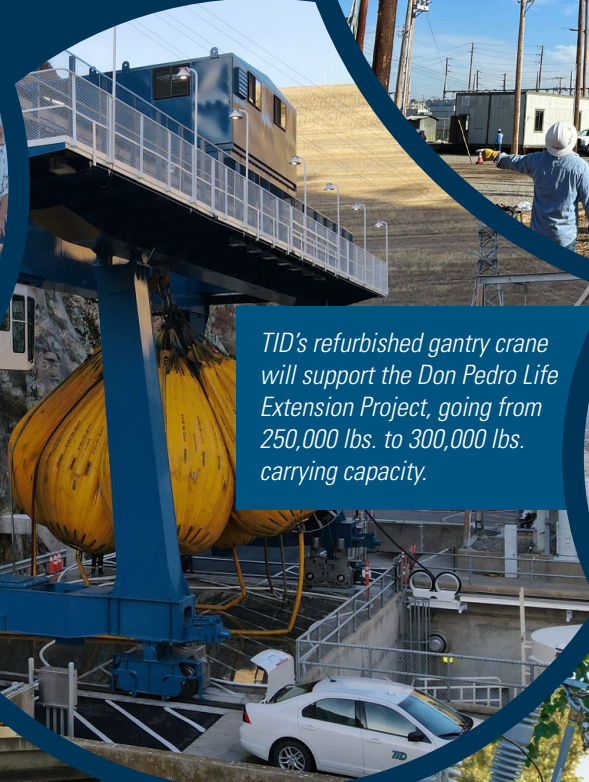
VALUE OF TID



TID's Celebration of Water & Power hosted customers, employees, and families at the Turlock campus. Departments showcased the work happening across the District.



TID Apprentice Linemen are tested before being hired to start a 42-month apprenticeship program.



TID's refurbished gantry crane will support the Don Pedro Life Extension Project, going from 250,000 lbs. to 300,000 lbs. carrying capacity.



Participants received hands-on training during the TID's Technical Skills Series program.



TID community members enjoyed the activities in Mobile Education Center.



Construction and Maintenance crews conducted drop improvements.



TID Line crews engaged with community members at the TID Celebration of Water & Power event.

VALUE OF HISTORY

As the first irrigation district in California, TID has been a pioneer in providing our customers with irrigation water for over 135 years and retail power for more than 100 years, and uses what we have learned to better our community's future.

TID MISSION

TID will provide reliable and competitively priced water and electric service, while being good stewards of our resources and providing a high level of customer satisfaction.

VISION

TID's reputation will be as a trusted partner, innovative leader, and model of sustainability in enhancing the quality of life for our community, through embracing our core values at every level of our organization.

CORE VALUES

- » **Reliability.** TID plans, builds and maintains its water and electric systems to reliably serve its customers.
- » **Affordability.** TID provides stable, competitive rates for its customers.
- » **Stewardship.** TID provides leadership by sustainably managing the resources entrusted to us.
- » **Safety.** TID ensures a safe environment for employees and customers.
- » **Quality Workforce.** TID attracts and retains highly-skilled and experienced team members.
- » **Customer Focus.** TID is committed to building strong and lasting relationships with our customers and community through engagement, transparency, accountability and trust.
- » **Local Control.** Decisions made by local people to address local needs are essential to TID's continued success.
- » **Visionary.** TID proactively balances near-term decision making with the long-term well-being of its customers.

TID OVERVIEW

Established in 1887, the Turlock Irrigation District (TID) was the first irrigation district in the state. Today it is one of only four irrigation districts in California 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 delivers irrigation water through 250 miles of a gravity-fed canal system that irrigates approximately 150,000 acres of farmland.

In addition, TID owns and operates an integrated and diverse electric generation, transmission and distribution system that serves a population of approximately 240,000 within a 662 square-mile area. TID is one of eight Balancing Authorities in California and operates independently within the Western United States power grid. A Balancing Authority must ensure customers' usage and resources are matched on a moment-by-moment basis. TID is governed by a five-member, locally elected Board of Directors.



Michael Frantz
Director, Division 1



David J. Yonan
Vice President, Division 2



Joe Alamo
Secretary, Division 3



Rob Santos
Director, Division 4



Ron Macedo
President, Division 5



WATER & POWER

Serving Central California since 1887

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