



**WATER & POWER**  
*Serving Central California since 1887*

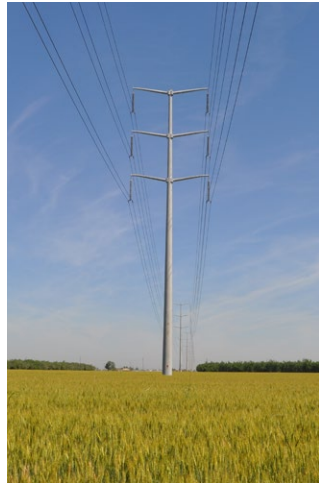
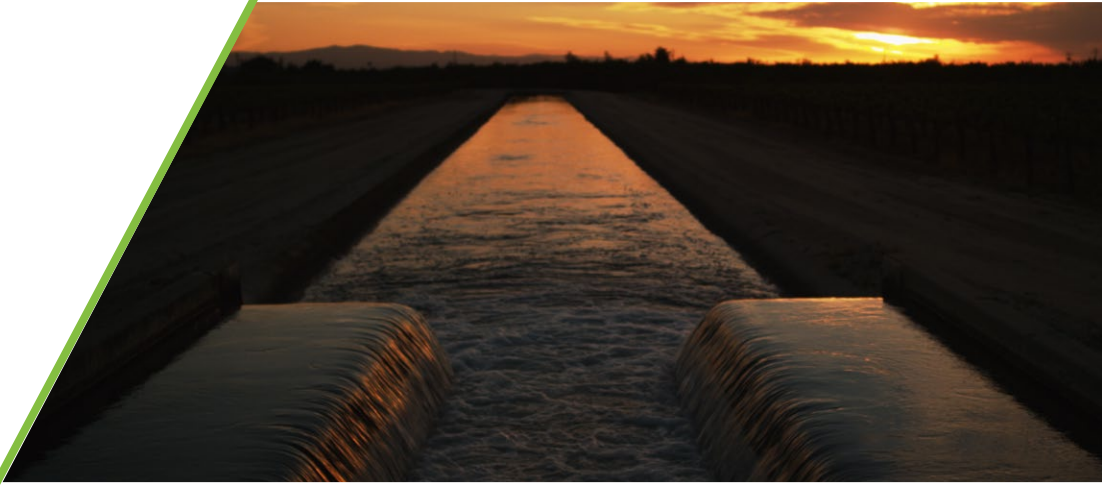
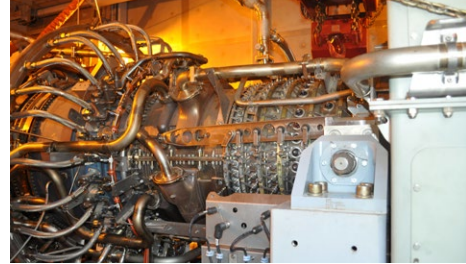
ANNUAL REPORT

**2019**



# 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.





## A LETTER FROM THE GENERAL MANAGER

As a community-owned utility, we at Turlock Irrigation District understand our incredible responsibility to preserve the vital resources we manage and operate in a responsible manner while moving the needs of the District forward.

2019 was a year of thoughtful planning, implementation of new practices and the culmination of the diligent service of Casey Hashimoto's tenure as Turlock Irrigation District's General Manager. I would be remiss if I didn't acknowledge Casey's exceptional leadership and dedication to the District for 34 years, which is reflected in the accomplishments and forward movement of projects in 2019. These projects include the implementation of the Integrated Resource Plan, which proved invaluable as we planned for our move into California's Independent System Operators' Energy Imbalance Market, and the implementation of TID's Wildfire Mitigation Plan which outlines our enhanced safety measures and ways we will make our electric system more resilient.

We continued to stay focused on the collaborative work needed to move forward with the development of a Voluntary Agreement in support of our pursuit to advance a sustainable plan that will balance water supply and environmental needs. The District remained diligent in our

advocacy efforts at the State and Federal level as we seek opportunities to best serve our community's needs.

I am proud of our thoughtful and talented team members and their dedication to ensuring the financial health of TID – as demonstrated by our bond rating increase in 2019 to AA-. This rating reflects TID's continued emphasis on maintaining fiscal responsibility and cost management of our assets. TID's financial standing is only one highpoint featured in the 2019 Annual Report.

Collaborative and committed would be words that describe TID's 2019 – I am proud of our team members who continue to work together – out in the field and behind the scenes – and remain dedicated to serving the needs of our customers. From participating in collaborative strategic planning sessions to Team TID's direct contributions to our communities, our team members honor the importance of being a community-owned utility with a focus on putting the needs and safety of our customers first, because together, We Are TID.

**Michelle Reimers**  
General Manager



# STEWARDING OUR RESOURCES

## *Voluntary Agreement*

Water stewardship takes many forms. It often takes many people. And it always takes time. Turlock Irrigation District remained committed to its stewardship of the Tuolumne River in 2019.

TID envisions a future for the Tuolumne that includes the protection and nurturing of native fish species through enhanced flows, habitat restoration projects, as well as measures to protect against invasive species that prey on native fish. Ensuring that this vision is achieved, however, requires ongoing efforts by the District to advocate for its position during continuing state and federal water regulatory proceedings.

TID continued its steady march toward relicensing the Don Pedro Project, while also advancing a Voluntary Agreement (VA) to provide a comprehensive alternative to the flow-only approach contained in the State Water Board's Bay-Delta Plan, which was adopted at the end of 2018.

TID, Modesto Irrigation District and the City & County of San Francisco spent much of 2019 engaged in negotiations over a VA with state resource agencies. Broad support for the general terms of the VA garnered momentum, and TID advocated on behalf of its customers to complete negotiations by the end of 2019. A signed agreement would not only provide TID additional regulatory certainty for years to come, but such an agreement would be the catalyst for the early implementation of Tuolumne River habitat restoration projects and other adaptive management measures to benefit our region and the environment.

The State Water Board's 2018 adoption of its Substitute Environmental Document (SED) for Phase 1 of the Bay-Delta Plan resulted in a legal challenge from TID and many other water agencies who would be harmed by the SED's prescription for additional water releases to the Delta from the Tuolumne River.

## *Relicensing of the Don Pedro Project*

At the federal level, the relicensing of Don Pedro continued in 2019. A major milestone was reached on February 11, 2019 when the Federal Energy Regulatory Commission (FERC) released its Draft Environmental Impact Statement (DEIS). Thankfully, the DEIS acknowledges the science that TID amassed in assembling the Tuolumne River Management Plan (TRMP) submitted in 2018 to FERC by way of Don Pedro's Amended Final License Application. The TRMP, if fully implemented, represents a \$158 million investment by TID and MID toward the improvement of the Tuolumne River.

The TRMP focuses on habitat restoration, predation management, environmental flow enhancements, hatchery upgrades, and recreational improvements to benefit the Tuolumne River's aquatic species and those who rely on the River for irrigation water, drinking water and recreation.

## *2019 Water Year*

On the heels of a subpar 2018, the 2019 Water Year ran October 2018 through September 2019 and was well above average for the Tuolumne River Watershed, resulting in about 46 inches of precipitation compared to the 36-inch historical average. Precipitation falling in February, March and May proved vital to the banner water year that led to an irrigation season with 48 inches of available water for irrigation customers.



# JOINING THE WESTERN ENERGY IMBALANCE MARKET

In 2019, Turlock Irrigation District announced that it will join the Western Energy Imbalance Market (EIM), embarking on the multi-year process, with entry into the EIM in Spring 2021.

The EIM, is a real-time, bulk power trading market, that enables participating entities to economically balance supply and demand within the market area in real-time by scheduling power deliveries every five minutes to better utilize its generation and transmission assets. Joining the EIM will serve TID well, allowing the District to gain access to the resource diversity provided within the EIM to realize economic and energy resource benefits by maximizing TID's generation and transmission assets. Turlock Irrigation District actively

seeks opportunities to help maintain its mission of providing reliable and affordable power and the move to the Western EIM will support this by enhancing the ability to find low-cost energy to serve real-time customer demand.

Participation in the EIM will enhance TID's efforts of integrating renewable energy sources and expanding its renewable energy portfolio into the future. It will allow Turlock Irrigation District to more easily mitigate some inherent challenges of renewable generation, such as sudden unanticipated increases or decreases in generation output, and the anticipated challenges of meeting the Renewable Portfolio Standard requirements.





# ADVOCATING FOR OUR COMMUNITY

## */ In Sacramento & Washington D.C. /*

Through industry associations as well as advocacy efforts, Turlock Irrigation District was actively engaged in advocating on behalf of its customers and community, both in Sacramento and Washington D.C.

In the nation's capital, TID's Government Affairs team members continued their efforts to communicate the importance of a new license for the Don Pedro and La Grange projects, holding numerous meetings throughout the year with federal agencies and elected representatives. TID was active in advocating for new technologies that have been utilized to improve its water operations. In February, TID participated in a multi-agency lobbying day in Washington D.C. to advocate for additional funding for Scripps' atmospheric river research, which generates forecasting that will enable California to become more climate resilient. Meetings were held with Senator Feinstein, congressional members, and the acting administrator for the National Oceanic and Atmospheric Administration.

In October, TID was in Washington D.C. again to raise awareness about the light detection and ranging (LiDAR) snow survey technology. This technology was developed by NASA and is commonly referred to as Airborne Snow Observatory (ASO). TID has partnered with NASA to pilot this technology in the Tuolumne River Watershed since 2013 and in that time we have seen tremendous benefits in water supply, flood control operations and ecosystem conditions. The United States Department of Agriculture's (USDA) Agriculture Research Service (ARS) developed the processing capabilities and modeling using the ASO data, allowing

TID's hydrology department to operate the water system more efficiently. Staff held 16 meetings over two days seeking support for additional resources for the USDA ARS among the administration and on Capitol Hill. These meetings were successful in drawing attention to this new technology and showing TID's use of advanced technology, leading to asks for increased appropriations funding from members of Congress.

In Sacramento, TID continued our advocacy to include the power generated at the Don Pedro Project as eligible renewable energy under the state's Renewable Portfolio Standard (RPS). Senator Caballero introduced legislation that would, for the first time, count Don Pedro as a renewable resource. TID's subject matter experts provided supporting testimony during the Energy and Utilities Committee, and the bill successfully moved out of that committee for the first time. Although the bill ran into a road block after, which was anticipated, TID was able to raise the profile of our diverse energy portfolio and highlight the commitment TID has made to sustainable energy production.

TID co-sponsored SB 487 by Senator Caballero which would direct the Department of Water Resources to incorporate advanced LiDAR technology, ASO, in the snow survey program. Senator Caballero's bill made it to Governor's desk without receiving a single "no" vote in the legislature, but was unfortunately vetoed by Governor Newsom when the bill reached his desk. Although the outcome was not what TID was planning, the District maximized its exposure in Sacramento as a leader in cutting-edge technology use in the watershed.

# MOVING TOWARD RENEWABLE

In 2019, TID provided 28.8 percent of its retail energy needs from Renewable Portfolio Standard (RPS) eligible resources. An additional 25.7 percent was sourced from carbon-free hydropower resources.

TID continued to make strides in its ongoing efforts to reduce the carbon footprint of its energy supply in 2019. To start, TID eliminated coal entirely from its retail power supply. Since 1994, TID had a Power Purchase Agreement for 10 percent of 550 MW-capacity Boardman Coal Power Plant. That agreement ended in 2018 and 2019 featured a coal-free portfolio for the District.

Additionally, thanks to an above average water year in the Tuolumne River Watershed, hydropower resources – such as the Don Pedro Project – sourced 25.7 percent of the District’s resource portfolio. Carbon-free hydropower will be increasingly important in the years to come as TID prepares to meet the 100 percent carbon-free by 2045 mandate set by SB 100.

Finally, 2019 saw the launch of TID’s Electric Vehicle and Electric Charger rebate programs. Following a successful start of the program, TID is poised to expand the program in 2020.

## ANNUAL REPORT TO THE CALIFORNIA ENERGY COMMISSION: POWER SOURCE DISCLOSURE

Schedule 3: Annual report Content Label Data for the year ending December 31, 2019.  
Turlock Irrigation District, Retail Power Supply

	Adjusted Net Procured (MWh)	Percent of Total Retail Sales
<b>Renewable Procurements</b>	<b>588,333</b>	<b>28.8%</b>
Biomass & Biowaste	1,326	0.1%
Geothermal	42,482	2.1%
Eligible Hydroelectric	33,232	1.6%
Solar	151,193	7.4%
Wind	360,100	17.6%
Coal	-	0.0%
Large Hydroelectric	525,896	25.7%
Natural Gas	642,662	31.4%
Nuclear	10,253	0.5%
Other	959	0.0%
Unspecified Power*	277,714	13.6%
<b>Total</b>	<b>2,045,817</b>	<b>100.0%</b>
<b>Total Retail Sales</b>	<b>2,045,817</b>	

\*Unspecified is power sourced from the market, and from no specific generation source.

# PROTECTING OUR COMMUNITIES

## *Public Safety Power Shutoffs*

Each year wildfires in California are growing in terms of strength, duration and devastation. While the District is fortunate that the majority of TID's service area is not designated as a high fire threat area, we know that there are still risks and we are always looking for ways to minimize them.

As a potential wildfire mitigation, SB 901 requires that power providers develop protocols for de-energizing the electric system for public safety, referred to as a Public Safety Power Shutoff (PSPS). While TID is prepared for a PSPS, it would only be activated as a last resort, under unprecedented conditions.

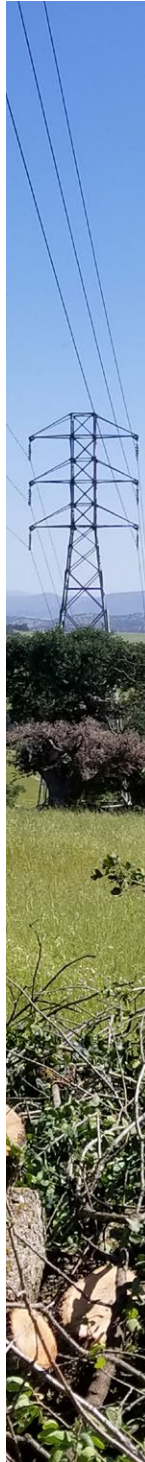
During storms, high winds, or times of extended high temperatures, power outages are always a possibility, and TID encourages customers to be prepared, have a plan, and if necessary, a backup power supply or a place they can go if the power goes out for an extended amount of time.

## *Wildfire Mitigation Plan*

Senate Bill 901, approved in 2018, amended Public Utilities Code §8387 and required TID to prepare a wildfire mitigation plan. The Plan describes how electrical lines and equipment are constructed, maintained, and operated in a manner that minimizes the risk of wildfire. TID has had standard requirements for design, construction and maintenance in the Fire Zones to reduce wildfire risk and the Wildfire Mitigation Plan (WMP) was created to build on those requirements and show our compliance with PUC §8387.

This plan is subject to direct supervision by the TID Board of Directors and is implemented by the TID Management Team. In addition, AB 1054 requires TID's Plan to be submitted to the Wildfire Safety Advisory Board by July 2020.

TID has high fire risk areas on the far west and east ends of District. Each of these



areas includes a Cal Fire State Responsibility Area (SRA) and the California Public Utility Commission (CPUC) Tier 2 High Fire Threat District (HFTD). TID applies most conservative requirements to all facilities within SRA and Tier 2 areas.

This Wildfire Mitigation Plan describes programs, policies, and procedures implemented by TID to minimize the probability that TID's electrical facilities may be the origin, or a contributing source, for the ignition of a catastrophic wildfire. The Plan identifies methods to maintain resiliency of the electric grid or the ability of TID's electric power system to withstand and recover from extreme, damaging conditions, including weather and other natural disasters, as well as cyber and physical attacks. The final goal of the Plan is to measure the effectiveness of TID wildfire mitigation activities and look for opportunities to improve efficiency.

TID continually evaluates prudent and cost-effective improvements to its standards, physical assets, operations, and training that can help meet the objectives of the Plan and our wildfire safety standards. A copy of the TID Wildfire Mitigation Plan is available at [TID.org](http://TID.org).

## *Wildland Fire Incident Action Plan*

TID identified the need to create a Wildland Fire Incident Action Plan (IAP) in order to coordinate the District's response to an uncontrolled fire. This IAP is not meant to replace or supersede the District's Wildfire Mitigation Plan, but rather, is for the management and coordination of resources and communication in response to an active fire threatening or impacting District facilities. If a fire were to ignite inside District territory, or were approaching and threatening District facilities or infrastructure, this plan would be activated to coordinate our response.



# DEFINING THE FUTURE

## Through Strategic Planning, Focus, and Engagement

2019 marked the conclusion of Turlock Irrigation District's first 5-year Strategic Plan which launched in 2015. While the inaugural plan served the District well, leadership looked for a holistic approach to developing the succeeding plan that would serve as its road map guiding decision making now and into the future.

As the District prepared for a transition in leadership, with General Manager Hashimoto's retirement announcement, management understood the importance of involving team members across the District in planning for the future. With the momentum from the implementation of the recently adopted Integrated Resource Plan, the District set out to design a plan that was reflective of the complex, innovative and aspirational work already taking place throughout the District.

The 2020-2025 Strategic Plan, which was developed in 2019 and would be finalized and released in 2020, was crafted through thoughtful, inclusive planning which involved the Board of Directors in interactive workshops and managers seeking feedback from team members to ensure all levels of the District would be represented throughout the Strategic Plan. A focus was placed on identifying priorities and defining actionable tasks with measurable goals to ensure the Plan delivered quantifiable progress and transparency.

Additionally, the needs of the Districts' customers was a driving force during the development of the Strategic Plan, confirming that the priorities and goals aligned with the District's mission to provide reliable and competitively priced water and electric service, while being good stewards of its resources and providing a high level of customer satisfaction.

Finally, significant attention went to making sure employees across the District could identify the ways in which their daily work was reflected in the Districts' forward progress through the specific actions and tasks. It will require the collective enthusiasm and focus the District has come to know from its team members to accomplish all that the 2020-2025 Strategic Plan sets out to achieve. Ultimately, the completion of the goals of the TID Strategic Plan will expand and strengthen the services provided to customers and the community.



# POWERING OUR COMMUNITIES

## Measuring Reliability

As your trusted energy partner, TID is responsible for providing our customers with safe, reliable and competitively priced electrical service.

One way the utility industry measures electrical service reliability is with System Average Interruption Duration Index (SAIDI). SAIDI measures the average duration (in minutes) TID customers experience service interruption during a sustained power outage.

In 2019, TID's annual SAIDI was just 59 minutes. By comparison, the industry standard in 2019 was approximately 139 minutes. TID crews work hard to ensure reliability and keep our customers' lights on.



## Energy Efficiency 2019



**1,055**

residential customers received rebates



**850**

holiday light strands were exchanged by customers for LED light strands



**9,455,783 kWhs**

in rebate savings for **70** non-residential customers



**146,026 kWhs**

saved by **35** non-residential customers participating in LED direct install program



**1,338,412 kWh**

saved by replacing **2,355** lights in dusk to dawn streetlights with LED's



**15,001,000 kWhs**

total saved in 2019



## Public Power Week 2019

Each year, TID is excited to recognize Public Power Week to celebrate the benefits of being a community-owned utility. In 2019, TID gave out approximately 800 LED bulbs to customers during Public Power Week and at street fairs within its service territory. TID customers were invited to the District's three office locations, in Ceres, Patterson and Turlock, to receive two (2) LED bulbs per household. In addition, the Energy Services team upped the excitement by hosting a drawing in which customers had a chance to win a basket full of energy efficient items, including a Nest Thermostat, power strip, LED lightbulbs and more!

TID is proud to participate in events and activities that support energy efficiency education and provide a valued resource to its customers as a community-owned utility and trusted community partner.

# CONNECTING IN THE COMMUNITY

## Team TID

Officially in its second year in 2019, Team TID continued to pick up steam! Similar to 2018, Team TID hosted the American Red Cross mobile blood drive buses in April for two days of donations at the Canal Campus and one day at the Broadway Yard. Together, 38 participants brought in a total of 38 pints of blood which the American Red Cross says is the equivalent of 114 lives saved! A school supply drive in August helped students from throughout the District start the year with the tools they needed. In October the group raised awareness for Breast Cancer Research by encouraging employees to wear pink every Friday. Team TID closed out the year by assisting the Salvation Army as red kettle bell ringers and raised enough in contributions from employees to provide holiday gifts, clothes and a meal for four families in the TID service territory.

Team TID reached an important milestone in 2019, applying for and receiving nonprofit status as a 501(c)(3). The designation allows contributions to the project to count as tax deductible donations. As a 501(c)(3), Team TID was able to offer employees the opportunity to make automatic tax deductible donations directly from their paychecks to Team TID – a pool of money that will be used to support future community projects.

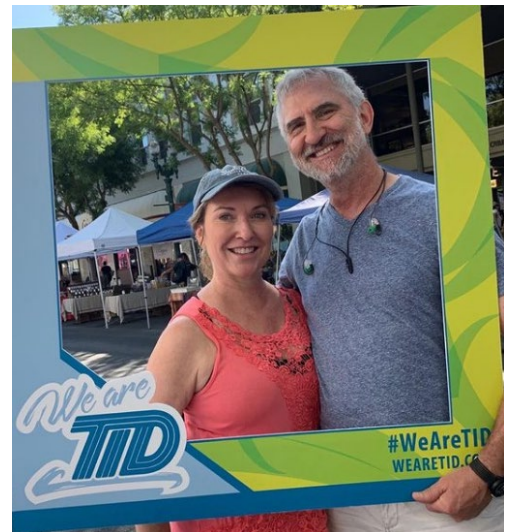
## Farmer's Market

TID took its community engagement to the streets in 2019 to participate in the Turlock Certified Farmers Market from June through September. TID Customer Services Representatives joined members of the Communications team to man the booth one Saturday a month, to talk to customers and answer questions about TID programs and rebates. While visiting the booth, customers also had the opportunity to take a selfie with “We Are TID” props and photo frames. When customers posted their photos to Instagram or Facebook they were entered in a drawing to win an Energy Efficiency gift basket containing a Nest Smart Thermostat, a power strip, LED lightbulbs and fun TID swag.

## TID Premier Shade Tree

In an effort to help customers reduce their energy costs – while creating a healthy environment – TID and The Greenery Nursery and Garden Shop partnered to sponsor the Premier Shade Tree Event.

Beginning in August, TID sold vouchers that allowed customers to pick up a tree planting kit at The Greenery Nursery and Garden Shop during a designated time period in September. Customers had a choice of two different shade trees.



**348  
SHADE  
TREES**

*...were purchased at a discount rate during the Premier Shade Tree Event*

# HISTORICAL RESULTS OF OPERATIONS

\$ in Thousands	2019	2018	2017	2016	2015
<b>Operating Revenues</b>					
Electric energy - Retail	\$264,836	\$268,963	\$304,200	\$257,495	\$262,657
Electric energy - Wholesale	54,980	53,476	51,482	41,140	50,973
Wholesale Gas	3,600	4,311	4,273	5,041	2,898
Irrigation	13,314	13,201	13,145	13,023	14,311
Other	6,237	4,315	5,173	1,637	1,640
<b>Total Operating Revenue</b>	<b>342,967</b>	<b>344,266</b>	<b>378,273</b>	<b>318,336</b>	<b>332,479</b>
<b>Operating Expenses</b>					
<b>Power Supply</b>					
Purchased Power	50,537	54,718	55,237	53,615	55,202
Generation and Fuel	93,607	95,612	95,281	76,808	97,656
<b>Total Power Supply</b>	<b>144,144</b>	<b>150,330</b>	<b>150,518</b>	<b>130,423</b>	<b>152,858</b>
Other Electric O&M	26,008	28,032	26,512	26,932	23,330
Irrigation O&M	14,126	14,281	12,474	13,336	11,294
Public Benefits	4,732	4,722	5,457	5,841	6,119
Administration and General	26,687	25,612	24,786	23,707	21,135
Depreciation and Amortization	65,793	65,001	64,567	64,691	62,515
<b>Total Operating Expenses</b>	<b>281,490</b>	<b>287,978</b>	<b>284,314</b>	<b>264,930</b>	<b>277,251</b>
<b>Operating Income</b>	<b>61,477</b>	<b>56,288</b>	<b>93,959</b>	<b>53,406</b>	<b>55,228</b>
<b>Operating Income (Expense)</b>					
Interest/Derivative (Loss) Gain	6,723	4,049	3,230	2,056	3,668
Miscellaneous	10,278	14,099	10,028	10,512	13,851
<b>Total Operating Expenses</b>	<b>17,001</b>	<b>18,148</b>	<b>13,258</b>	<b>12,568</b>	<b>17,519</b>
<b>Interest Expense</b>					
Long Term Debt	48,334	49,845	47,473	51,255	53,000
<b>Net Income (Loss)</b>	<b>30,144</b>	<b>24,591</b>	<b>59,744</b>	<b>14,719</b>	<b>19,747</b>
<b>Net Position</b>					
Beginning of Year	384,994	360,403	310,814 <sup>1</sup>	296,095	276,348
End of Year	\$415,138	\$384,994	\$370,558	\$310,814	\$296,095
<b>Debt Service Coverage - Revenue Bonds/Cop's</b>	<b>3.54x</b>	<b>2.93x</b>	<b>2.81x</b>	<b>2.91x</b>	<b>2.81x</b>

(1) Government Accounting Standards Board (GASB) Statement No. 75, Accounting and Financial Reporting for Post-employment Benefits Other Than Pensions, was adopted in 2018 and as a result beginning of year Net Position was restated as of January 1, 2018

# HISTORICAL OPERATING STATISTICS

\$ in Thousands	2019	2018	2017	2016	2015
<b>Average Customers at End of Period</b>					
Residential	73,978	73,730	73,381	73,029	72,772
Commercial	7,320	7,282	7,236	7,148	7,086
Industrial	883	878	860	866	836
Other (1)	21,085	21,060	20,853	20,814	20,676
<b>Total</b>	<b>103,266</b>	<b>102,950</b>	<b>102,330</b>	<b>101,857</b>	<b>101,370</b>
<b>MWh Sales</b>					
Residential	745,512	732,041	764,099	714,966	706,945
Commercial	134,018	132,867	133,967	128,568	131,135
Industrial	792,909	790,621	774,613	774,467	766,170
Other (1)	373,378	390,310	375,219	382,287	411,734
<b>Total Retail</b>	<b>2,045,817</b>	<b>2,045,839</b>	<b>2,047,898</b>	<b>2,000,288</b>	<b>2,015,983</b>
Generated by District	2,136,572	2,062,189	2,251,144	1,954,296	2,267,333
Purchased	1,341,973	1,410,460	1,307,532	1,443,813	1,319,345
<b>Subtotal</b>	<b>3,478,545</b>	<b>3,472,649</b>	<b>3,558,676</b>	<b>3,398,109</b>	<b>3,586,678</b>
System Losses	76,811	78,222	82,474	78,566	69,016
<b>Total</b>	<b>3,401,734</b>	<b>3,394,427</b>	<b>3,476,202</b>	<b>3,319,543</b>	<b>3,517,662</b>
<b>Electric Energy Revenues (In Thousands)</b>					
Residential	\$119,534	\$117,429	\$122,325	\$114,519	\$113,282
Commercial	19,039	18,886	19,013	18,283	18,540
Industrial	95,450	94,828	93,356	92,721	91,521
Other (1)	51,031	53,188	51,034	51,819	55,190
Power Supply Adjustment Recognized (Deferred)	(30,235)	(23,405)	(23,443)	(20,398)	(16,424)
Rate Stabilization Transfer	9,570	7,506	41,370		
<b>Total Retail Energy</b>	<b>264,389</b>	<b>268,432</b>	<b>303,655</b>	<b>256,944</b>	<b>262,109</b>
Electric Service Charges	409	502	489	473	470
Other Electric Revenue	38	29	56	78	78
<b>Electric Energy Retail</b>	<b>264,836</b>	<b>268,963</b>	<b>304,200</b>	<b>257,495</b>	<b>262,657</b>
Wholesale Power	54,980	53,476	51,482	41,140	50,973
<b>Total</b>	<b>\$319,816</b>	<b>\$322,439</b>	<b>\$355,682</b>	<b>\$298,635</b>	<b>\$313,630</b>
System Peak Demand (MW)	537	526	549	527	517
<b>Average MWh Sales Per Customer</b>					
Residential	10.077	9.929	10.413	9.790	9.715
Commercial	18.308	18.246	18.514	17.987	18.506
Industrial	897.972	900.479	900.713	894.304	916.471
<b>Average Revenue Per MWh</b>					
Residential	\$160.34	\$160.41	\$160.09	\$160.17	\$160.24
Commercial	\$142.06	\$142.14	\$141.92	\$142.20	\$141.38
Industrial	\$120.38	\$119.94	\$120.52	\$119.72	\$119.45
<b>Average Cost of Power per kWh for Retail Load (2.)</b>	<b>\$0.065</b>	<b>\$0.069</b>	<b>\$0.069</b>	<b>\$0.066</b>	<b>\$0.072</b>

(1) Includes agricultural and municipal water pumping and street lighting.

(2) Includes depletion and depreciation on generation assets, excludes debt service.

# TID OVERVIEW

Established in 1887, Turlock Irrigation District (TID) was the first publicly owned 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 more than 102,000 customer accounts within a 662 square-mile area. TID is one of seven Balancing Authorities in California and operates independently within the Western United States power grid. A Balancing Authority performs a balancing function in which customers' usage and resources are matched on a moment-by-moment basis. TID is governed by a five-member, locally elected Board of Directors.

## / Board of Directors /



**Division 1**  
Michael Frantz,  
Secretary



**Division 2**  
Charles Fernandes,  
President



**Division 3**  
Joe Alamo

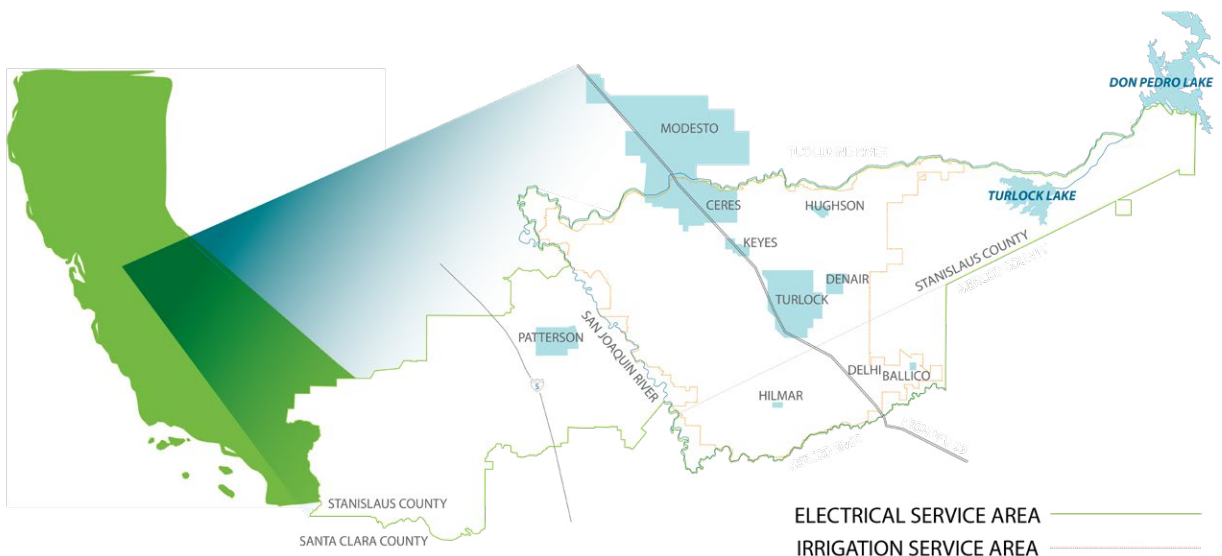


**Division 4**  
Rob Santos,  
Vice President



**Division 5**  
Ron Macedo

## / Service Area /



## / Quick Facts /



**458**  
Employees



**662 SQ. MILES**  
Electric Service Area

**102,330**  
Electric Accounts



**307 SQ. MILES**  
Irrigation Service Area

**4,679**  
Irrigation Accounts

Electric Customer  
Breakdown

**72% RESIDENTIAL**  
**20% OTHER\***  
**7% COMMERCIAL**  
**1% INDUSTRIAL**



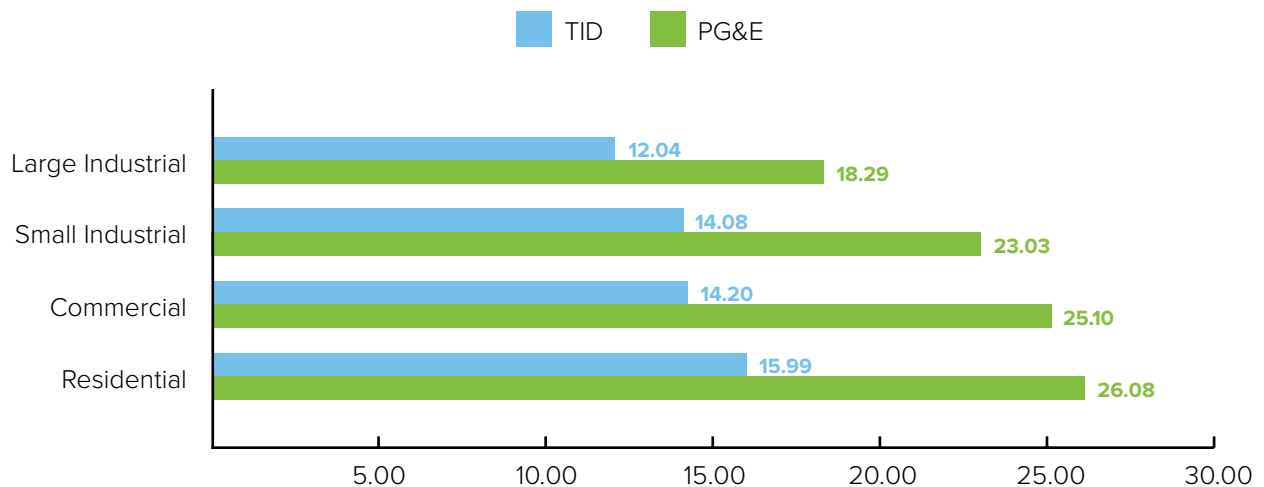
**146,791**  
Irrigated Acres



**250 MILES**  
Gravity-Fed Canals

*\*Includes agricultural and municipal water pumping and street lighting*

## / Electric Rates Comparison /



*TID average cents per kWh for 2019. Compared with PG&E structures. Using TID annual average usage per rate class.*



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