



*Inland Empire Utilities Agency*  
A MUNICIPAL WATER DISTRICT



# **ANNUAL REPORT FISCAL YEAR 2018-2019**





# 2019

## ANNUAL REPORT FISCAL YEAR 2018-2019



## Message from the General Manager



Throughout the years, IEUA has served as a remarkable example of a regional custodian of water resource reliability and resiliency. It is the Agency's target to uphold that standard of reliability and continue to lead the way in water resource management.

In 2020, the Inland Empire Utilities Agency (IEUA/Agency) will be celebrating its 70th year of service to the Chino Basin.

Since IEUA's formation on June 6, 1950 (previously known as the Chino Basin Municipal Water District), the Agency has taken steps to ensure that our water resources are reliable. Transforming from solely a supplemental water provider to also providing wastewater treatment, developing renewable energy and providing compost, IEUA continues to serve as a fundamental asset in environmental stewardship for the region.

Our Board of Directors remain committed to sustaining and improving our performances and services into the future. To meet the Board's vision, IEUA continues to move forward focusing on fiscal responsibility, water reliability and environmental stewardship in the coming year.

As an agency focused on innovation and leadership, IEUA has maintained a standard of sustainable planning that will aid in ensuring a reliable water supply for future generations.

IEUA's wastewater systems will be managed and constructed to ensure that as expansion planning is triggered, construction will be completed to meet regulatory and growth needs in an efficient, environmentally responsible and cost-effective manner. The Agency is dedicated to optimizing facility energy use and effectively managing renewable resources to achieve peak power independence and contain future energy costs. The Agency is committed to applying ethical, fiscally responsible and environmentally sustainable principles to all aspects of business and organizational conduct.

We look forward to the future and will continue to establish and maintain planning efforts and initiatives that reflect our commitment to deliver high-quality, reliable services to the region.

A handwritten signature in blue ink that reads "Shivaji Deshmukh". The signature is fluid and cursive, written in a professional style.

Shivaji Deshmukh, P.E.  
General Manager



## Board of Directors

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General Manager

**Kathy Besser**  
Executive Manager of External Affairs and  
Policy Development/Assistant General  
Manager

**Christiana Daisy, P.E.**  
Executive Manager of  
Engineering/Assistant General Manager

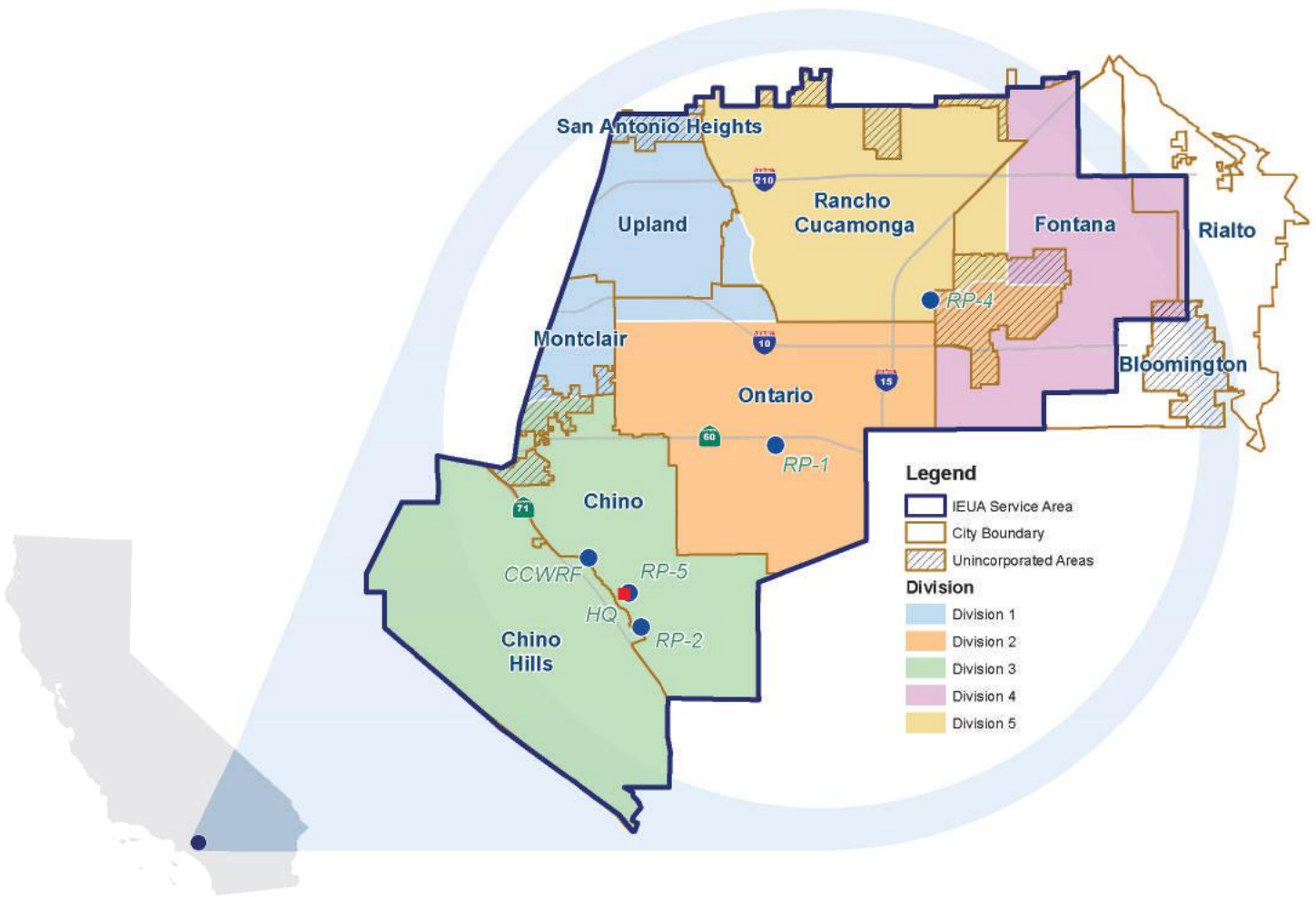
**Randy Lee**  
Executive Manager of  
Operations/Assistant General Manager

**Christina Valencia**  
Executive Manager of Finance and  
Administration/Assistant General Manager

**Jean Cihigoyenetche**  
General Counsel

# Service Area

IEUA is responsible for serving approximately 875,000 residents over 242-square miles in western San Bernardino County.



# About Us

The Inland Empire Utilities Agency is located in western San Bernardino County and serves approximately 875,00 residents in a 242-square mile service area.

As a regional wastewater treatment agency, the Agency provides sewage utility services to seven contracting agencies under the Chino basin Regional Sewage Service Contract: cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Upland, Cucamonga Valley Water District (CVWD) in the city of Rancho Cucamonga.

In addition to the contracting agencies, the Agency provides wholesale imported water from the Metropolitan Water District of Southern California to seven retail agencies: the cities of Chino, Chino Hills, Ontario, Upland, CVWD in the city of Rancho Cucamonga, Fontana Water Company in the city of Fontana, and the Monte Vista Water District in the City of Montclair.





## Mission

Inland Empire Utilities Agency is committed to meeting the needs of the region by providing essential services in a regionally planned and cost effective manner while safeguarding public health, promoting economic development and protecting the environment.

Key areas of service:

- Securing and supplying imported water.
- Collecting and treating wastewater.
- Producing high-quality renewable products such as recycled water, compost and energy.
- Promoting sustainable use of groundwater and development of local water supplies.

## Vision

To become a world class leader in water management and environmental stewardship, including water quality, water-use efficiency, recycled water, and renewable energy, in order to enhance and preserve the quality of life throughout the region.

## Values

Leading the way. Planning for the future. Protecting the resources of the communities we serve.

The Inland Empire Utilities Agency is: Committed to applying ethical, fiscally responsible, transparent and environmentally sustainable principles to all aspects of business and organizational conduct.

Working with integrity as one team, while celebrating the region's diversity. Staying in the forefront of the industry through education, innovation, efficiency, and creativity.



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*The Agency is committed to developing and implementing an integrated water resource management plan that promotes cost-effective, reliable, efficient, and sustainable water use along with economic growth within the Agency's service area.*



## Supplemental Water Provider

As a member of the Metropolitan Water District of Southern California (MWD), the Agency is the supplemental water provider for western San Bernardino County. Approximately 30% of the water used in the region is imported from the State Water Project through MWD.

Since Fiscal Year (FY) 2008/09, imported water deliveries from northern California declined from a high of 78,872 acre-feet (AF) to 63,230 AF in FY 2018/19.

Within the IEUA region, total water consumption decreased 7% in FY 2018/19, representing a loss in demand of 14,574 AF from FY 2017/18. Over the past 10 years, the region's population has grown by approximately 8%, however water use in the region is 20% less than it was in FY 2008/09.

This decrease in demand, despite a growing population, is due to reductions in per capita usage mandated by State legislation and the increased adoption of water-use efficiency practices and technologies by residents in our service area.

Total water consumption in FY 2018/19 was 188,817 AF.

The year 2017 marked the end of the drought emergency, and the focus has now shifted back to continuing to diversify and maximize local resources, including recycled water and groundwater, while expanding water-use efficiency programs. These efforts will better prepare the service area for future dry years and will increase regional resiliency in the face of climate change.



## Chino Desalters

The Chino Basin Desalter Authority (CDA) was formed under a Joint Exercise of Powers Agreement on September 25, 2001, by local agencies, including: cities of Chino, Chino Hills, Norco, and Ontario, IEUA, Jurupa Community Services District, Santa Ana River Water Company, and Western Municipal Water District (formally admitted on April 2, 2009).

The CDA purifies brackish groundwater extracted from the Chino Basin with the Chino I and II Desalter facilities and distributes the drinking water to its member agencies. The Chino I and II Desalters serve the dual purpose of providing a reliable water supply and managing groundwater quantity and quality in the region.

IEUA operates the Chino I Desalter, which commenced operation in 2001.



What is the highest flow day for IEUA's wastewater treatment plants? **Super Bowl Sunday**

What is the second highest flow day? **Thanksgiving**



## Wastewater Treatment

IEUA owns and operates four facilities specializing in regional water recycling services. The Agency's water recycling plants collectively take in approximately 50 million gallons of wastewater per day for treatment. Several treatment processes contribute to providing high quality recycled water pursuant to California's Title 22 regulations.

## Major Treatment Process

**Preliminary Treatment** – Wastewater flows through bar screens and grit chambers, where large and more dense materials such as sand, dirt, stones, and rags are removed.

**Primary Treatment** – As wastewater goes through sedimentation tanks, approximately 65% of the suspended solids are removed.

**Secondary Treatment** – This is the biological process in which the organic material is removed by microorganisms. This process reduces in excess of 90% of the organic material in the wastewater.

**Tertiary Treatment** – Water is passed through filtration to remove suspended organic solids, and is disinfected using sodium hypochlorite (bleach).

# Recycled Water

IEUA began selling recycled water in the 1970s as a low-cost alternative to potable water for large irrigation customers. Since 2000, IEUA and its local water providers have invested in a program to expand delivery of high-quality recycled water, thus improving sustainability of the region's water supply. To date, IEUA has more than 1,200 connections to the recycled water distribution system.

Recognizing the critical role of recycled water in the long-term water security plan of the Chino Basin, IEUA adopted a policy and entered into agreements with its contracting member agencies to maximize the use of recycled water.

IEUA is committed to the development of its recycled water infrastructure so that all recycled water produced through its wastewater treatment activities can be beneficially used.

Recycled water uses include: agricultural, landscaping, golf courses, industrial cooling, parks, recreational lakes, groundwater recharge, median strips, and more.

As demand for potable water increases, the future availability of potable water for irrigation is questionable. Utilizing recycled water for irrigation and other purposes is making use of a valuable resource that would otherwise be disposed of.

During FY 2018/19, the average recycled water supply from IEUA's facilities was approximately 50 million gallons per day (MGD), or 55,666 acre-feet per year (AFY). Total recycled water demands during FY 2018/19 were 28,345 AF.





## Water Quality Laboratory

The Water Quality Laboratory provides high quality, reliable analytical support to the Agency in its efforts to protect the public health and environment in accordance with the Environmental Laboratory Accreditation Program (ELAP) Quality Assurance/Quality Control requirements.

IEUA has constructed a 17,166 sq. ft. Water Quality Laboratory at its headquarters in Chino, California. The facility was built near Regional Water Recycling Plant No. 5 (RP-5) to manage water quality testing, enhance performance and improve the process of sample analysis.



This \$17.8 million state-of-the-art facility was awarded a Leadership in Energy and Environmental Design (LEED) Gold Certification for meeting over 60 categories established by the U.S. Green Building Council. The heating and cooling equipment were designed to meet the highest energy reduction standards, which contributes to the facility's overall energy reduction of 41%. Funding for this project has been provided in full or in part by the Clean Water State Revolving Fund through an agreement with the State Water Resources Control Board. California's Clean Water State Revolving Fund is capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds.



The lab was awarded the Outstanding Civil Engineering Water/Wastewater Project Award from the American Society of Civil Engineers in the San Bernardino and Riverside Counties branch and the Los Angeles section. The Water Quality Laboratory also received an Engineering News Records California Regional Best Projects award for best specialty construction in 2019.



Required testing for the facility has been completed and the Environmental Laboratory Accreditation certification was approved by the State Water Resources Control Board on October 24, 2019. The Water Quality Lab is now fully operational. This year, the laboratory has added five new instruments and a Perchlorate analysis. Staff is currently evaluating the possible purchase of equipment for additional testing of Contaminants of Emerging Concern (CECs).



The Agency's education programs will include educational tours of the lab, showcasing the building and its water quality functions for students kindergarten through twelfth grade.

Staff are currently evaluating new technologies and regulations to determine the feasibility of incorporating additional tests in the hopes to expand services for years to come.

*The Agency is committed to the responsible use and protection of the environment through conservation and sustainable practices.*



# Environmental Stewardship

## Energy Optimization

IEUA continues to be recognized for leadership in technology and water management—tackling the water-energy nexus takes the Agency’s leadership role to a new level.

IEUA’s renewable portfolio was strategically developed by identifying how available resources, such as wastewater treatment infrastructure and available land, could be applied to incorporate environmentally friendly technologies capable of producing power at a rate comparable to grid import pricing. IEUA successfully incorporated solar and wind along with battery storage into its facilities, utilizing public-private partnerships without expending any capital, to reduce its demand on the grid.

Energy storage is key to maximizing the value of resource investments, allowing the Agency to use resources more efficiently, reduce costs for customers and participate in building a more resilient grid for the entire region.



## Portfolio: Megawatt (MW)

*Currently Installed*

**Solar Power: 5.0 MW**

**Battery Storage: 4.0 MW**

**Wind Power: 1.0 MW**

## Portfolio History

IEUA entered into a Power Purchase Agreement (PPA) with a private company and had 3.5 MW of solar power installed at four of IEUA's facilities in 2008. Since installation, IEUA has consumed approximately 66,148 megawatt hours (MWh) of power generated from the solar panels.

In 2010, IEUA expanded its renewable energy portfolio by securing another PPA for a 1.0 MW wind turbine at Regional Water Recycling Plant No. 4 (RP-4) in Rancho Cucamonga. The wind turbine was commissioned in early 2012 and has generated approximately 2,851 MWh since startup.

IEUA partnered with an energy firm to install 4.0 MW of advanced energy storage systems at Agency facilities and 1.5 MW of solar at the Inland Empire Regional Composting Facility. The storage systems optimize IEUA's on-site generation including solar and wind. Since the start of the operation in January 2019, the solar has generated an estimated 1,130 MWh of power.

The batteries store excess renewable energy and use stored energy to power facilities when demand on the electric grid is high. The energy storage systems also enhance the Agency's ability to share the benefits of renewable resources between facilities.

The Agency's Energy Optimization programs generated 9% of the electricity consumed from renewable energy resulting in \$58,000 in savings for the fiscal year. Savings to date since 2008 is approximately \$1,080,000.

The renewable energy generated by IEUA in FY 2018/19 would be able to provide electricity to at least 544 homes for one year.

# Groundwater Recharge

IEUA, Chino Basin Watermaster, Chino Basin Water Conservation District, and the San Bernardino County Flood Control District jointly sponsor the Chino Basin Recycled Water Groundwater Recharge Program. This program was put in place to enhance water supply reliability and to enhance drinking water quality throughout the greater Chino Basin.

As part of the recycled water expansion, IEUA has enhanced the capabilities of the Groundwater Recharge Program to help replenish the area's underground aquifers. These recharge sites improve the reliability of the local groundwater supply for a growing population.

Located throughout IEUA's service area are 19 recharge sites designed to capture runoff from storms, imported water from the State Water Project and high-quality recycled water from IEUA's distribution system.

In FY 2018/19, IEUA recharged 12,861 AF of stormwater/local runoff; and delivered 6,787 AF of imported water and 11,543 AF of recycled water.

Recycled water direct usage was 16,803 AFY.



Victoria Basin



IEUA and Inland Empire Regional Composting Authority gave out free compost to the public in honor of Compost Awareness Week.

## Composting and Biosolids Management

In 2002, IEUA entered into a Joint Powers Agreement with the Los Angeles County Sanitation Districts to create the Inland Empire Regional Composting Authority (IERCA). The IERCA designed and constructed a composting facility in Rancho Cucamonga called the Inland Empire Regional Composting Facility (IERCF). The IERCF is located in Rancho Cucamonga and is the largest fully enclosed composting facility in North America. It has been in operation since 2007, recycling biosolids and amendments such as woodwaste and greenwaste needed for the composting recipe.

For FY 2018/19, the IERCF processed 151,527 tons of biosolids and 40,982 tons of amendments and produced 201,195 cubic yards of STA Certified Compost sold under the brand name SoilPro Premium Compost. The compost is sold to landscapers and farmers throughout southern California.

Over the past 12 years, IERCF has cost-effectively provided and manufactured an exceptional quality compost with an excellent safety record and a perfect environmental compliance record.



# Chino Basin Program

The Chino Basin is one of the largest groundwater basins in southern California containing approximately five million acre-feet (AF) of water, has an unused storage capacity of approximately one million AF and consists of approximately 235 square miles of the upper Santa Ana River Watershed.



## Quality

Manages quality in the groundwater Basin



## Subsidence

Helps balance storage and extraction



## New Infrastructure

Leverages Prop 1 funding for needed water infrastructure



## Security

Improves system resilience (storage and infrastructure)



## Basin Stakeholders

Achieves Basin and water supply objectives

The Chino Basin has a rapidly growing population and the demand for water is expected to continue to rise.

IEUA applied for Proposition 1 funding for the Chino Basin Program (CBP)—a first-of-its-kind program that was developed to help the region move beyond traditional water management practices and into a new era of water optimization.

The California Water Commission approved conditional funding of \$206.9 million for the CBP through the Proposition 1 Water Storage Investment Program in 2018. This is the largest funding award IEUA has received.

The CBP would involve the construction of an advanced water treatment facility and distribution system that could treat and store up to 15,000 acre-feet per year (AFY) of recycled water for 25 years, creating a new local water supply. The CBP would also provide needed infrastructure within the Chino Basin for added groundwater treatment and interconnections to provide increased flexibility. During dry or critically dry years, a partnership with an existing State Water Project (SWP) Contractor could exchange up to 50,000 AFY from the Chino Basin, resulting in ecosystem benefits north of the Delta.

IEUA, its member agencies and the project stakeholders have been in discussions since the conditional funding award in July 2018, evaluating any potential options or project components. The stakeholders adopted a memorandum of understanding in April 2019 to begin the development of a feasibility study to identify facilities that could be included in the preliminary design report for the Chino Basin Program and is expected to be completed by Summer 2020.

The CBP has the potential to deliver necessary water system improvements earlier, at a lower cost, and secure access to water supplies for the future.

## How the Program Works



- 1 **Treat non-potable local recycled water supplies with advanced water technology**  
(e.g. reverse osmosis)
- 2 **Recharge and store treated water in Chino groundwater basin**
- 3 **Pump groundwater from storage to local SWP Contractor**  
- Water conveyed through existing infrastructure and sent to southern California customers
- 4 **SWP transfers equivalent amount of water at Oroville reservoir**  
- Water released from Oroville for environmental benefits
- 5 **Water released during dry and critically-dry years to Feather River**  
- Pulse flows to improve survival of outmigrating salmon
- 6 **Water flows downstream through the Bay Delta**



*The Agency is committed to safeguarding its fiscal health through organizational efficiency and the adoption of balanced multiyear budgets and rates. The Agency will provide open and transparent communication to educate partner agencies on IEUA's fiscal policies.*



## Financial Sustainability

To mitigate future rate increases, the Agency remains committed to cost containment and optimizing grant funding to support capital investments in the region.

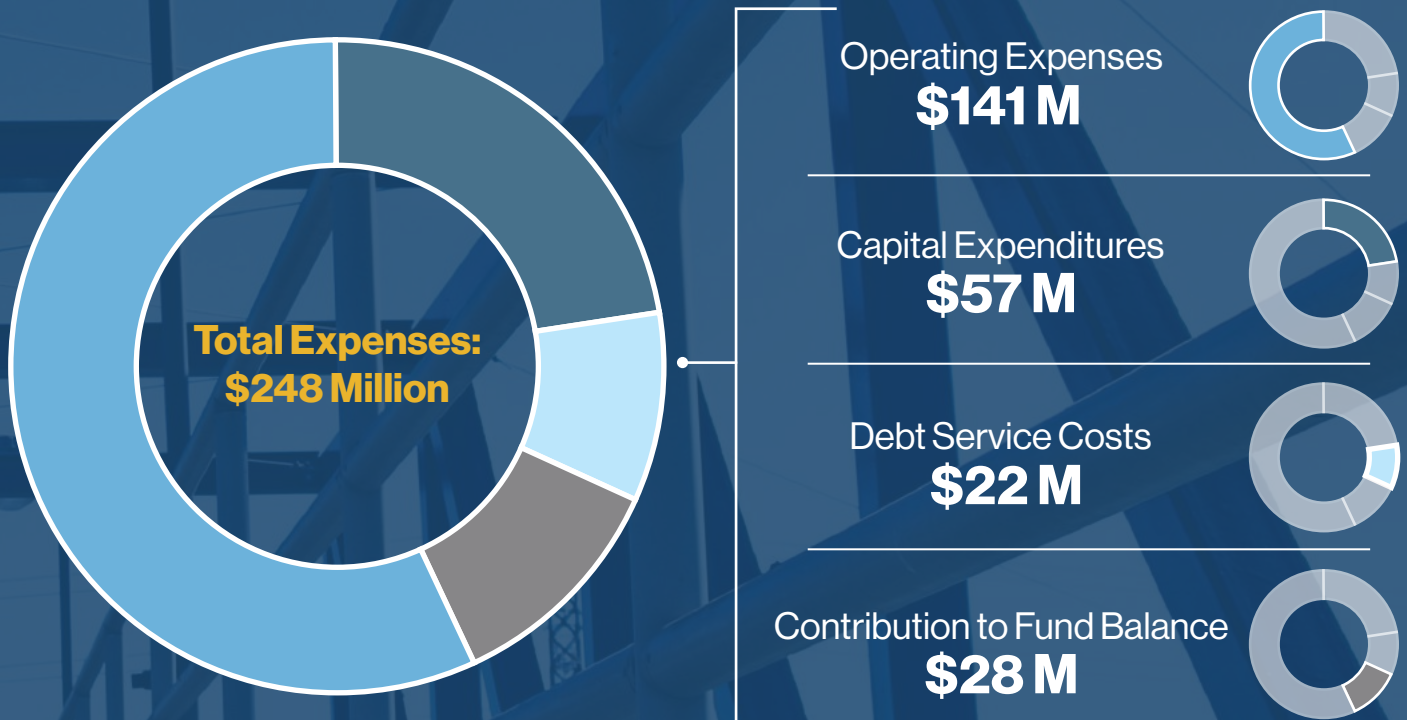
<b>FY 2018/2019</b>		(\$ in Millions)
Operating Revenues		145
Connection Fees		29
Property Taxes		53
Grants & Loans		5
Other Revenues		16
<b>Total Funding Sourced</b>		<b>\$248</b>

\*Other revenues include: contract cost reimbursements from Chino Basin Desalter Authority, Inland Empire Regional Composting Authority, and Chino Basin Watermaster; interest revenues; and lease revenues.



## Audited Actuals

Operating revenues of \$145 million account for nearly 60 percent of total revenues and other funding sources, including \$85 million in service charges for the Agency’s regional programs, \$46 million pass-through sales of imported water and \$14 million from recycled water sales. The remaining 40 percent are non-operating revenues is comprised of property tax receipts, which increased 10 percent over FY 2017/18, fees from new connections to the Agency’s regional wastewater (3,392 equivalent dwelling units) and water distribution (4,060 meter equivalent units) systems. Other revenues includes reimbursement for the Agency’s operation of the Chino Basin Desalter 1, the Inland Empire Regional Composting Facility and groundwater recharge basins.



Operating expenses and debt service costs of \$163 million remained stable from the prior fiscal year and account for nearly 65 percent of total expenses and other uses of funds. Capital project expenditures of \$57 million included completion of final design for the Regional Water Recycling Plant No. 5 Expansion project and upgrades to the Regional Water Recycling Plant No. 1 headworks, primary and secondary systems. Total fund balance increased by \$28 million, primarily from non-operating revenues designated to support the Agency’s capital improvement plan.

# Grant and Loan Awards

Sponsor	Program Name	Project Name	Award Amount
United States Bureau of Reclamation (USBR)	WaterSMART Grants: Water Marketing Strategy Grants for FY 2018	Chino Basin Water Marketing Strategic Plan	\$400,000
State Water Resources Control Board (SWRCB)	Clean Water State Revolving Fund (CWSRF)	Regional Plant No. 5 (RP-5)	\$101,530,000
State Water Resources Control Board (SWRCB)	Clean Water State Revolving Fund (CWSRF)	Distribution System/Wineville/Jurupa/RP-3 Recharge Improvements (PID23a)	\$11,742,000
State Water Resources Control Board (SWRCB)	Clean Water State Revolving Fund (CWSRF)	Lower Day Basin Improvement Project	\$2,855,332
State Water Resources Control Board (SWRCB)	Clean Water State Revolving Fund (CWSRF)	Montclair Basin Improvement Project	\$1,273,857
		<b>Total Grants and Loans</b>	<b>\$117,801,739</b>

## Chino Basin Water Marketing Strategic Plan

The United States Bureau of Reclamation awarded IEUA \$400,000 in grant funding for the WaterSMART Water Marketing Strategy Program. The Chino Basin Water Marketing Strategic Plan will identify new and existing facilities needed to optimize groundwater banking operations and develop pricing, marketing and operation plans for the Chino Basin Water Bank.

## Regional Plant No. 5 (RP-5)

The RP-5 Expansion Project will expand the facility's treatment capacity to meet water demands in IEUA's service area and relocate the Regional Solids Treatment Plant No. 2 to RP-5. All improvements made to the recycled water treatment plant will meet the requirements of the Clean Water Act and further local, regional, State, and Federal priorities related to energy conservation, drought preparedness and water resource management.

## Distribution System/Wineville/Jurupa/RP-3 Recharge Improvements (PID23a)

PID23a will facilitate improvements to the Wineville, Jurupa and RP-3 Basins and build a pumping and conveyance system to pump stormwater and dry-weather runoff from the Wineville Basin to the Jurupa Basin. The proposed project is expected to recharge the following additional supplies into the Chino Basin: 3,166 AFY of stormwater, 2,905 AFY of recycled water and 2,190 AFY of dry-weather runoff. This new recharge will increase the yield of the Chino Basin by 8,261 AFY.



## **Lower Day Basin Improvement Project**

The Lower Day Basin Improvement Project will support several modifications along the Day Creek Channel, including new gates, associated electrical and instrumentation, and monitoring systems. The project will also provide approximately 993 AFY of additional stormwater capture for groundwater recharge and storage.

## **Montclair Basin Improvement Project**

The Montclair Basin Improvement Project will excavate approximately 450 cubic yards of material, provide two new diversion structures along the San Antonio Creek to divert flow into Montclair Basins 2 and 3, and install a new gate and pipeline to increase stormwater retention by 233 AFY.

State, Federal, and local agencies have financially assisted in many of IEUA's projects. These include: U.S. Department of Energy, California Department of Forestry and Fire Protection, California Department of Parks and Recreation, California Energy Commission, Federal Emergency Management Agency/California Emergency Management Agency, U.S. Department of Agriculture-Natural Resources Conservation Service, Western United Resource Development, Inc., California Public Utilities Commission, State Water Resources Control Board, U.S. Department of Interior - Bureau of Reclamation, Metropolitan Water District of Southern California, California Department of Water Resources, California Department of Public Health (presently State Water Resources Control Board), Santa Ana Watershed Project Authority, California Water Commission, Environmental Protection Agency, California Special Districts Association, California Integrated Waste Management Board, and WateReuse Foundation.

(The contents of this document do not necessarily reflect the views and policies of any of the above referenced agencies, nor does mention of trade names or commercial products constitute endorsement or recommendation for use. Gov. Code, § 7550, 40 CFR § 31.20)

# Community Outreach

*As part of IEUA's commitment to environmental stewardship, the Agency offers educational programs and takes part in community outreach. These activities focus on water supply, renewable resources and environmental sustainability.*



## Education

IEUA invests in our future generations and provides a range of programs offered to kindergarten through twelfth grade students. These programs include: Water Discovery Field Trips to the Chino Creek Wetlands and Educational Park, Garden in Every School® Program (GIES), educational assemblies for children, Solar Cup competition, and more.

## Garden in Every School®

The goal of the GIES Program is to educate students and the community about water-wise usage through a garden landscape featuring low water-use plants and efficient irrigation. During FY 2018/19, IEUA awarded three \$4,500 grants to St. George Parish School (Ontario), Hillside High School (Upland) and Valley View High School (Ontario). The grant program reached a total of 766 students and 70 teachers. GIES will implement new school gardens for FY 2019/20.





## Water Discovery Field Trip

IEUA continues to provide free educational field trips to schools throughout the service area to the Chino Creek Wetlands and Educational Park to promote the value of natural treatment wetlands, the creation of habitat for endangered/sensitive species and environmental stewardship.

IEUA offers a busing mini-grant, which allows schools and organizations to apply for transportation funding to and from the Chino Creek Wetlands and Educational Park to take part in the Water Discovery Field Trip program.

FY 2018/19 generated around 4,000 students and 79 schools that participated in the Water Discovery Field Trip Program.

*The Water Discovery and Busing Mini-Grant program are partially funded by a grant from the California Department of Parks and Recreation. The Chino Creek Wetlands and Educational Park is partially funded by a grant from the State Water Resources Control Board.*

## Kick The Habit

IEUA continues to promote the Kick the Habit campaign focused on kicking the water-wasting habit. The goal of the campaign is to increase awareness about the value of water, communicate the message of water-use efficiency and promote long-term changes in water-use habits that will help to ensure the sustainability of the region's water supply. Visit [KickWaterWaste.com](http://KickWaterWaste.com) for more information.

# Solar Cup™

Solar Cup™ is a high school educational program that provides students with the opportunity to build and design solar-powered boats. This seven-month program, which ends with a boat competition at Lake Skinner in Temecula Valley, includes writing technical reports, creating social media campaigns and developing and implementing a strategy to build a boat powered by solar panels.

For FY 18/19, 40 high school teams competed from five different counties in southern California; making it the nation's largest solar-powered boat competition. IEUA, along with partnering agencies, sponsored three teams: Chino Hills High School (Chino Hills), Los Osos High School (Rancho Cucamonga) and Upland High School (Upland). All three schools received awards:

## **Chino Hills High School (Veteran)**

-18th Place Overall – Veterans and Rookies

## **Upland High School (Veteran)**

-2nd Place Sprint Race – Inland Region

-11th Place Overall – Veterans and Rookies

## **Los Osos High School (Veteran)**

-1st Place for Technical Reports – Inland Region

-1st Place Endurance Race – Inland Region

-1st Place Sprint Race – Inland Region

-1st Place Public Service Message – Inland Region

-6th Place Overall – Veterans and Rookies



# National Theatre for Children

The National Theatre for Children Program (NTC) delivers a behavior-driven, multi-platform, in-school water education curriculum for students and teachers in kindergarten through sixth grade. A package of live theater, student curriculum and teacher guides focus on messages utilizing a custom-designed program covering uses of water, importance of water, ways to conserve, and ways water becomes polluted. Over the last year, NTC visited 50 elementary schools throughout IEUA's service area and conducted 86 shows reaching 21,530 students and 922 teachers.

# 11th Annual Earth Day

IEUA partnered with the city of Chino to co-host a two-day Earth Day Event on April 17 and 18, at the Chino Creek Wetlands and Educational Park. The Earth Day celebration provided Water Discovery Field Trips to approximately 2,000 students, parents and teachers on April 17 and hosted over 2,000 community members on April 18 during Community Day.

The event provided fun, interactive opportunities for the public to learn how they can be environmental stewards and protect natural resources. Students and the public learned about water resources, how compost benefits the soil, the diversity and importance of the region's habitat, and the importance of proper recycling. The student event provided opportunities to participate in the Water Discovery Program with engaging lessons and activities about the water cycle, recycling, animals and habitats, wetlands, and water usage. Students experienced an animal encounter, enjoyed an environmental show, and observed the wetlands and its functions. The public event included environmental exhibits, document shredding, free giveaways, hands-on earth-friendly activities, environmental show performances, animal encounters, and much more.

The event promotes environmental awareness to the community and provides ways for the community to take action and support environmental stewardship.



## Shows That Teach

Shows That Teach (STT) "H2O, Where Did You Go?" and "Waterology" are fun, theatrical-style productions appropriate for students kindergarten through sixth grade, which teaches students about water science and the importance of conservation. Over the last year, STT conducted 17 performances at elementary schools in IEUA's service area, reaching approximately 4,500 students.



## Water-Use Efficiency

To achieve water-use efficiency goals, IEUA offers a suite of WUE programs that are designed to positively impact individual long-term behavior regarding efficient water use.

For FY 2018/19, there were approximately 3,696 water saving technologies/services deployed throughout the service area.

These include:

- Residential Landscape Design Services
- Residential Landscape Installation and Retrofit Programs
- Residential Pressure Regulation Program
- Residential and Commercial Turf Replacement Program
- Residential and Commercial Device-Based Rebates
- Technology-Based Software Programs
- Regional Watershed-Wide Aerial Mapping Program
- Funding support for Member Agency Locally Implemented Programs
- Funding support for development of Sustainable Water Rate Structures
- Inland Empire Residential Landscape Guidebook
- Water Saving Garden Friendly – for the Inland Empire – Online Plant Database

The water savings achieved through these regional WUE activities is approximately 285 AFY, with an estimated lifetime savings of 2,331 AF. This new water savings is in addition to IEUA's cumulative lifetime water savings of 144,079 AF for all WUE activities since 1992.

Sustained reduction in water use, as mandated by State legislation, will be met through IEUA's member agency regional partnership and IEUA's continued commitment to implement innovative WUE programs that create market transformations. Many of these programs have been made possible through funding partnerships with local agencies, including the Metropolitan Water District of Southern California, Department of Water Resources, U.S. Bureau of Reclamation, and public/private partnerships.





*The Agency is committed to providing a positive workplace environment by recruiting, retaining and developing a highly skilled team dedicated to IEUA's mission, vision and values.*



## Accolades

Workforce



IEUA was recognized as a 2018 Cool Planet Award recipient by the Climate Registry and Southern California Edison. The award celebrates business customers that incorporate sustainability into their long-term plans while demonstrating exemplary leadership in energy and carbon management within their business size and industry sector.



IEUA's Water Quality Laboratory was awarded Water/Wastewater Treatment Project of the Year by the American Society of Civil Engineers (ASCE) in both the Inland Empire and Los Angeles branches. The state-of-the-art facility is LEED Gold Certified by the U.S. Green Building Council and was recognized by ASCE for its positive impact across the Inland Empire.



IEUA was presented with the Excellence in Innovations and Resiliency award for the IEUA and Inland Empire Regional Composting Authority (IERCA) Battery and Solar Project from the California Association of Sanitation Agencies. The award highlights the Agency's dedication to utilizing innovative technology for the development of new technology in the wastewater field. The Agency is also the first public agency to utilize state-of-the-art battery storage technology to reduce its dependence on the grid.



For the 20th consecutive year, IEUA has been awarded the Certificate of Achievement for Excellence in Financial Reporting by the Government Finance Officers Association of the United States and Canada for its 2017/18 Fiscal Year Comprehensive Annual Financial Report (CAFR). This achievement represents the Agency's dedication to excellence and commitment to transparency, fiscal responsibility and financial accountability.



For the 13th consecutive year, IEUA has been awarded the Distinguished Budget Presentation Award by the Government Finance Officers Association of the United States and Canada for its Fiscal Year 2017/18 budget. This award presents the highest form of recognition in government budgeting by satisfying nationally recognized guidelines for effective budget presentation.



IEUA representatives Pietro Cambiaso and Eddie Lin received the Cool Planet Award on behalf of the Agency



IEUA Collections Team



IEUA, Cucamonga Valley Water District and the city of Fontana held a groundbreaking ceremony for the Village of Heritage Recycled Water Project. This project will install approximately 8,200 linear feet of pipeline to enhance water supplies for the Village of Heritage as well as other communities within the city of Fontana. Funding for this project was provided in full or in part through an agreement with the State Water Resources Control Board.

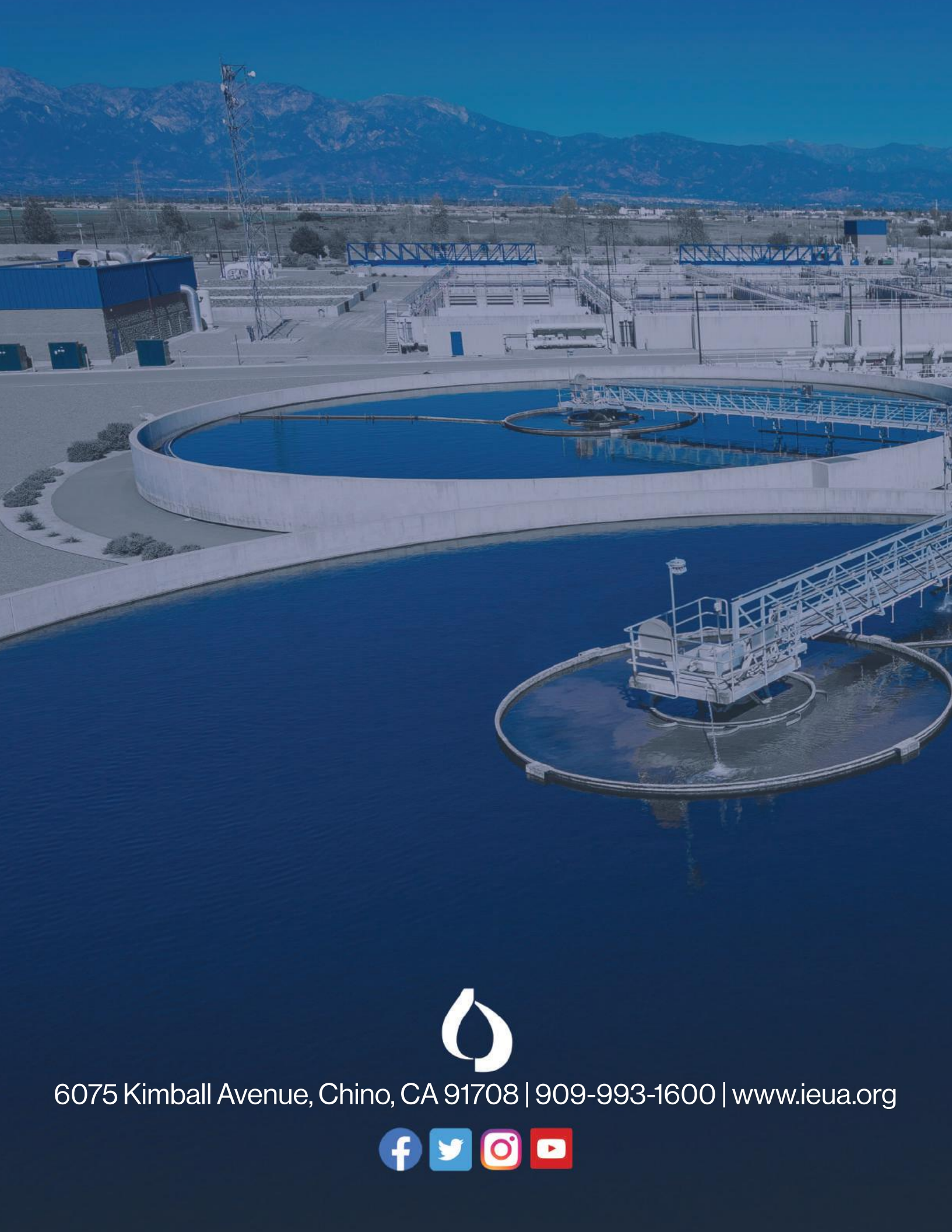


IEUA received the Organizational Excellence Award from the California Association of Sanitation Agencies due to its exceptional Operations and Maintenance Intern/Volunteer Trades Program. The award showcases the Agency’s managerial excellence with an emphasis on leadership practices, organizational sustainability, organizational development, and other related subjects. The Program also provides students the opportunity to explore a wide range of career paths within the Operations and Maintenance Department and obtain practical real-world work experience.

## Workplace Environment

IEUA employees work with integrity as one team, while celebrating the region’s diversity. They continue to lead the Agency by staying at the forefront of the industry through education, training, innovation, efficiency, and creativity. IEUA pursues public participation, which includes building collaborative relationships with elected officials, the community, industry leaders, and the engaged public in order to establish trust and transparency. Outreach efforts are complemented with a strong legislative program that gives IEUA a voice in ensuring that future regulations and legislation create cost-effective, sustainable value.

Due to the work that is put in by IEUA employees, the Agency is able to help the region secure a reliable water supply, promote sustainable solutions, collect and treat wastewater with recycled water as the end-product—enhancing drought resiliency in the region—and provide education and outreach programs to the community and local schools to encourage conservation of our precious resources.



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