

2013/2014 ANNUAL REPORT

LEADING  
THE WAY IN  
**WATER**  
**MANAGEMENT**  
FOR A BETTER TODAY AND TOMORROW

*"It is our goal as an Agency to lead the way in water resource management. Taking into consideration the current water supply conditions, it is our objective as environmental stewards of the region to partake in efficient planning methods to ensure a high quality water supply for today and for our future."*

*– Terry Catlin, Board President,  
Inland Empire Utilities Agency*



*Inland Empire Utilities Agency*

A MUNICIPAL WATER DISTRICT

# Water Use Efficiency, Recycled Water and Renewable Energy

# IEUA THINKING ABOUT TOMORROW TODAY

**W**ater is a precious natural resource that must be used wisely. California's water supply is drastically low: rivers and reservoirs are below record lows; precipitation has decreased; and snowpack levels are below average. Due to these record-low water supply conditions, the state of California is facing a drought. California's dry conditions make it more important now than ever to use water wisely and invest in sustainability efforts. Inland Empire Utilities Agency is committed to providing services and programs in order to ensure a reliable water supply for the region.

Located in San Bernardino County, serving approximately 830,000 residents in a 242-square mile service area, the Inland Empire Utilities Agency (IEUA/Agency) focuses on three key services: treating wastewater and developing recycled water, local water resources, and conservation programs to reduce the region's dependence on imported water supplies and drought-proof the service area; converting biosolids and waste products into a high-quality compost made from recycled materials; and generating electrical energy from renewable sources. IEUA strives to provide these services in a well-managed, cost-effective manner.

As a regional wastewater treatment agency, the Agency provides sewage utility services to seven contracting agencies: the cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Upland, and Cucamonga Valley Water District in the city of Rancho Cucamonga.

In addition to the contracting agencies, the Agency provides wholesale imported water to seven retail agencies: the cities of Chino, Chino Hills, Ontario, Upland, Cucamonga Valley Water District 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.



IEUA's Platinum LEED™ Certified Headquarters located in the City of Chino

***"IEUA is committed to the development and implementation of an integrated water resource management plan that promotes cost-effective, reliable, efficient and sustainable water use along with economic growth within IEUA's service area."***

***– Michael Camacho, Board Vice President***

## Supplemental Water Provider

Formed in 1950, IEUA is a member of the Metropolitan Water District of Southern California (MWD) and thus acts as a supplemental water provider. One-fourth of the water used in the region is imported from MWD through the State Water Project. Over the last several years, imported water deliveries from Northern California have declined from a high of 78,872 acre-feet (AF) in 2009 to 59,047 AF in 2013. IEUA strives to increase regional sustainability through the development of reliable local water supplies. These efforts include using water more efficiently, eliminating waste and unreasonable use, and drought-proofing the region through increasing the use of recycled water. IEUA has invested in water use efficiency efforts and is on track to reduce water use by 5,157 acre-feet by the end of 2015.



## Wastewater Treatment

Collecting and treating wastewater is a primary service that IEUA provides. IEUA owns and operates five facilities specializing in regional wastewater and recycled water services. The Agency's water recycling plants collectively take in approximately 70 million gallons of wastewater per day for treatment. Several treatment processes contribute to providing quality recycled water pursuant to the State of California Title 22 regulations. The major treatment processes include raw wastewater pumping, preliminary and primary treatment, primary effluent flow equalization and diversion, secondary treatment and tertiary treatment. In a continuous effort for IEUA's operations to stay committed to providing a high quality end-product through efficient, functional treatment plants, the Agency continues to reinvest in infrastructure repairs and upgrades to the water recycling plants.

***"IEUA's wastewater systems will be managed and constructed to ensure that when expansion planning is triggered, construction can be completed to meet regulatory and growth needs in an efficient, environmentally responsible and cost-effective manner."*** – Jasmin A. Hall, Board Member



## Recycled Water and Groundwater Recharge

IEUA began selling recycled water in the 1970s as a low cost alternative to potable water for large irrigation customers. Over the past 10 years, IEUA and its local water providers have invested in an aggressive program to expand delivery of high quality recycled water to its service area as a reliable irrigation and industrial water source that has improved the sustainability of the region's water supply. To date, IEUA has more than 775 connections to the recycled water distribution system.



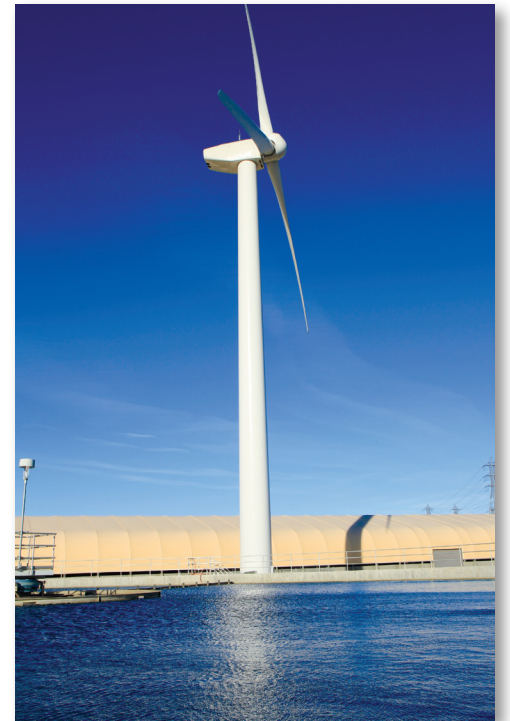
As part of the recycled water expansion, IEUA has enhanced the capabilities of the Groundwater Recharge Program to help replenish the area's underground aquifers. These recharge sites enhance the reliability of the local groundwater supply for a growing population. Located throughout IEUA's service area are 19 recharge sites designed to capture runoff from storms, imported water from the State Water Project, and/or high quality recycled water from IEUA's distribution system.

The ability to provide high quality groundwater is due in part to IEUA and the region's proactive salinity management. Unless managed, salt dissolved in water acts as a constraint to using some of the region's groundwater supplies. IEUA is part of a joint powers authority called the Chino Basin Desalter Authority (CDA). The CDA established Desalters to treat and protect the region's groundwater supplies.



## Composting and Biosolids Management

IEUA developed a partnership with the Los Angeles County Sanitation Districts to create the Inland Empire Regional Composting Authority (IERCA). The IERCA determined that recycling biosolids into a high quality compost product, in a fully enclosed, local facility was the best approach to overcoming the challenges of biosolids management. The Inland Empire Regional Composting Facility (IERCF) located in Rancho Cucamonga, is the nation's largest fully enclosed composting facility. In operation since 2007, the IERCF is an excellent example of IEUA's ability to provide a regional sustainable solution to biosolids management.



## Renewable Energy

IEUA began its renewable energy campaign in 2008 with the evaluation for potential solar installations that could provide clean power at several of its locations.

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. Since installation at the end of 2008, IEUA has consumed approximately 35,000 MWh of power generated from the solar panels. This amount of consumption from a renewable resource is equivalent to eliminating approximately 9,600 pounds of pollutants and 10,700 metric tons of greenhouse gas emissions from Southern California power plants per year.

In 2010, IEUA expanded its renewable energy portfolio by securing another PPA for a wind turbine. As a result, a 1.0 MW wind turbine was installed at IEUA's facility in Rancho Cucamonga. The wind turbine was commissioned in early 2012 and has generated approximately 850 MWh since startup, which is equivalent to removing 240 pounds of pollutants and 260 metric tons of greenhouse gas emissions that would accompany comparable electricity generation from Southern California power plants.

***"IEUA is committed to optimizing facility energy use and effectively managing renewable resources to achieve peak power independence and contain future energy costs."***

***– Gene Koopman, Board Member***

IEUA secured a PPA for a 2.8 MW fuel cell system located at Regional Recycling Plant No. 1 in the city of Ontario. This system is expected to provide approximately 50 percent of the electrical demand for this plant.

# Water Use Efficiency and Education



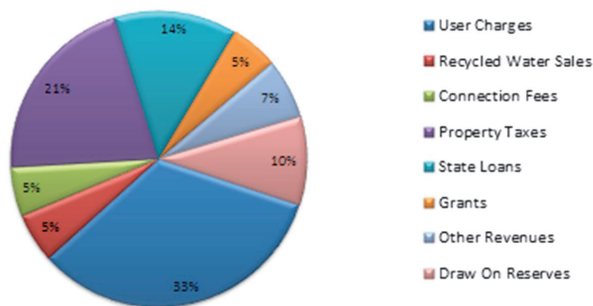
**“IEUA is committed to applying ethical, fiscally responsible and environmentally sustainable principles to all aspects of business and organizational conduct.”**  
 – Steven J. Elie, Board Secretary/Treasurer

IEUA is committed to providing the community with programs that educate and enable increased water savings. IEUA works closely with MWD and partnering agencies to promote water use efficiency programs which include: residential and commercial rebates; landscape retrofits; landscape transformations; landscape audits; voucher programs; landscape trainings; and toilet installations. These programs focus on increasing efforts in landscape management and reducing outdoor water use. Water use efficiency and conservation are key fundamentals of the Agency's long-term water resource management strategy.

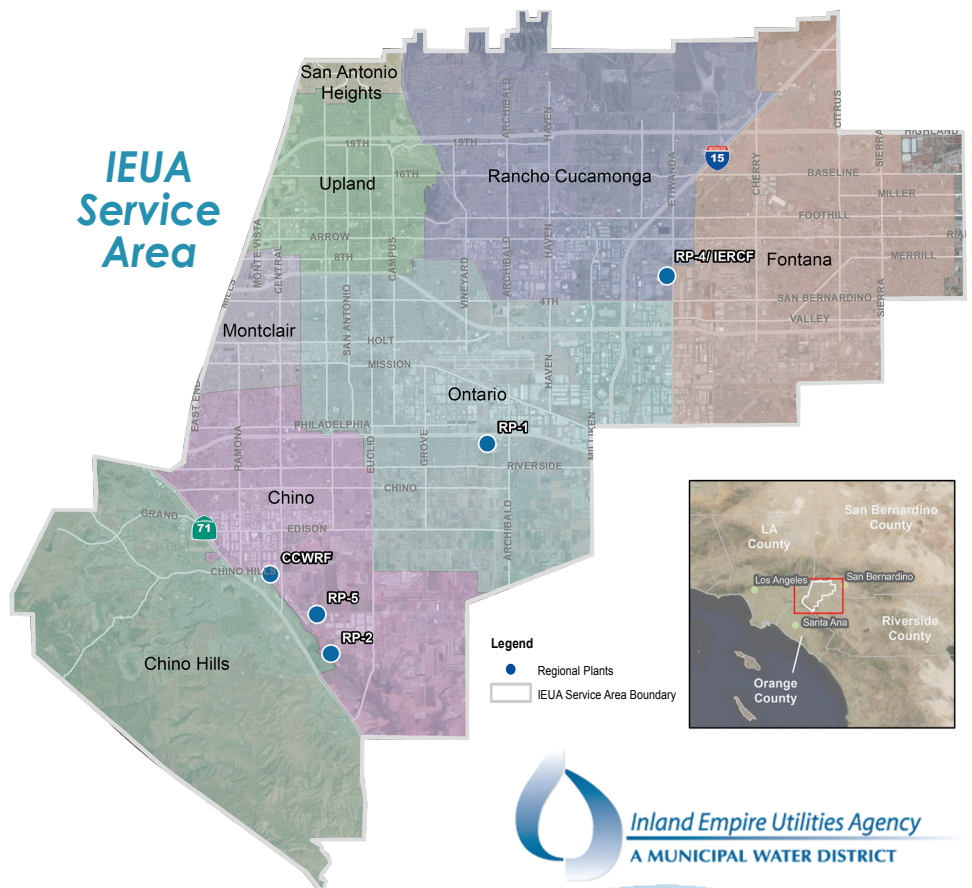
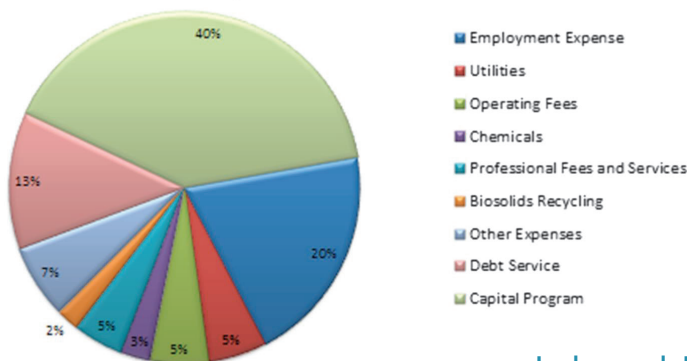
Education programs offered to K-12 students within IEUA's service area are significant tools toward investing in our future. These programs include: Water Discovery field trips to the Chino Creek Wetlands and Educational Park; “Water is Life” poster contest; Garden in Every School® program; National Theatre for Children; and more. These education programs focus on teaching water use efficiency methods, origination and sustainability of water resources, and water-saving techniques.

Investing in our water supply for today and tomorrow involves various functions and it is IEUA's commitment to perform these functions through fiscal responsibility, efficient business practices, water supply management, and environmental stewardship.

**FY 2013/2014 Total Revenues & Other Funding Sources**  
 Amended Budget  
 \$175.4 Million



**FY 2013/2014 Total Expenses & Other Uses of Funds**  
 Amended Budget  
 \$175.4 Million



**Inland Empire Utilities Agency**  
 64 Years of Excellence in Water Resources and Quality Management  
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State and Federal agencies have financially assisted in many of IEUA's projects. These include: California Integrated Waste Management Board, 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 through Southern California Gas Company Self Generation Incentive Program, California Solar Initiative Southern California Edison, State Water Resources Control Board, U.S. Department of Interior, Bureau of Reclamation, Metropolitan Water District of Southern California, California Department of Water Resources, South Coast Air Quality Management District, California Department of Public Health, and WasteReuse 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)