



AGENDA
ENGINEERING, OPERATIONS & WATER RESOURCES COMMITTEE MEETING
OF THE BOARD OF DIRECTORS
OF THE
INLAND EMPIRE UTILITIES AGENCY*

WEDNESDAY, JULY 10, 2024
10:00 AM

AGENCY HEADQUARTERS
BOARD ROOM
6075 KIMBALL AVENUE, BUILDING A
CHINO, CALIFORNIA 91708

***A MUNICIPAL WATER DISTRICT**

[VIEW THE MEETING LIVE ONLINE AT IEUA.ORG](http://IEUA.ORG)

TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 427 796 29#

The public may participate and provide public comment during the meeting by dialing the number provided above. Comments may also be submitted by email to the Director of Board and Administrative Services Denise Garzaro at dgarzaro@ieua.org prior to the completion of the Public Comment section of the meeting. Comments will be distributed to the Committee Members.

CALL TO ORDER

PUBLIC COMMENT

Members of the public may address the Board on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to email the Recording Secretary prior to the scheduled meeting time or address the Board during the public comments section of the meeting. Comments will be limited to three minutes per speaker.

ADDITIONS TO THE AGENDA

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

1. ACTION ITEMS

A. MINUTES

Approve the Minutes of the June 12, 2024 Engineering, Operations & Water Resources Committee meeting.

B. AMEND CONTRACT FOR REGIONAL WATER EDUCATION PROGRAM

Staff recommends that the Committee/Board:

1. Approve a contract amendment to National Theatre for Children for the Regional Water Education Program, in the amount of \$150,000, increasing the contract from \$145,572 to a not-to-exceed amount of \$295,572 (103% increase) through June 30, 2026; and
2. Authorize the General Manager to execute the contract amendments subject to non-substantive changes.

2. INFORMATION ITEMS

A. REGIONAL WATER USE EFFICIENCY BUSINESS PLAN FOR FISCAL YEARS 2024/25-2025/26 (WRITTEN/POWERPOINT)

B. RP-5 EXPANSION PROJECT UPDATE JULY 2024 (POWERPOINT)

3. GENERAL MANAGER'S COMMENTS

4. COMMITTEE MEMBER COMMENTS

5. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

ADJOURN

Declaration of Posting

I, Denise Garzaro, CMC, Board Secretary/Office Manager of the Inland Empire Utilities Agency*, a Municipal Water District, hereby certify that, per Government Code Section 54954.2, a copy of this agenda has been posted at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA and on the Agency's website at www.ieua.org at least seventy-two (72) hours prior to the meeting date and time above.

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary at (909) 993-1736 or dgarzaro@ieua.org, 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.



MINUTES
ENGINEERING, OPERATIONS, AND WATER RESOURCES
COMMITTEE MEETING
INLAND EMPIRE UTILITIES AGENCY*
AGENCY HEADQUARTERS, CHINO, CA

WEDNESDAY, JUNE 12, 2024
10:00 A.M.

COMMITTEE MEMBERS PRESENT

Michael Camacho, Chair
Marco Tule, Director

CALL TO ORDER

Committee Chair Camacho called the meeting to order at 10:00 a.m. There were no public comments received or additions to the agenda.

1A – 1D. CONSENT ITEMS

The Committee:

- ◆ Approved the Minutes of the April 10, 2024 Engineering, Operations, and Water Resources Committee.
- ◆ Recommended that the Board:
 1. Award a contract for the Building Automation System Controls Upgrade, to Infinite Control Systems for a not-to-exceed amount of \$415,707; and
 2. Authorize the General Manager to execute the service contract, subject to non-substantive changes;as a Consent Calendar item on the June 19, 2024 Board Meeting agenda.
- ◆ Recommended that the Board:
 1. Award a construction contract for the RP-1 Centrate Line Improvement, Project No. EN24020, to Mladen Buntich Construction Co., Inc., in the amount of \$1,338,000; and
 2. Authorize the General Manager to execute the contract, subject to non-substantive changes;as a Consent Calendar item on the June 19, 2024 Board Meeting agenda.
- ◆ Recommended that the Board:

1. Award a construction contract for the RP-1 Evaporative Cooling for Aeration Blower Building, Project No. EN21056, to Horizons Construction Company International, in the amount of \$1.327,000; and
2. Authorize the General Manager to execute the construction contract, subject to non-substantive changes;

as a Consent Calendar item on the June 19, 2024 Board Meeting agenda.

2A. – 2C. ACTION ITEMS

The Committee:

◆ Recommended that the Board:

1. Award master services contracts for System Integration Services to Technical Systems Inc. and E Tech Group for a total aggregate not-to-exceed amount of \$6,000,000 over a five-year period, with two one-year options to extend; and
2. Authorize the General Manager to execute the contracts, subject to non-substantive changes;

as an Action item on the June 19, 2024 Board Meeting agenda.

◆ Recommended that the Board:

1. Approve the Photovoltaic System Partial Decommissioning Agreement between Solar Star California V, LLC and IEUA for the not-to-exceed amount of \$443,727; and
2. Authorize the General Manager to execute the agreement, subject to non-substantive changes;

as an Action item on the June 19, 2024 Board Meeting agenda.

◆ Recommended that the Board adopt Resolution No. 2024-6-11, establishing Regional Industrial Pretreatment Program Services;

as an Action item on the June 19, 2024 Board Meeting agenda.

3A. INFORMATION ITEMS

The following information item was presented or received and filed by the Committee:

- ◆ RP-5 to RP-2 Sludge Line Repair on El Prado Road Update
- ◆ RP-5 Expansion Project Update June 2024

4. GENERAL MANAGER'S COMMENTS

General Manager Shivaji Deshmukh stated that June is National Safety Month, and the Agency has launched an additional safety program practice for staff. The program includes weekly newsletters with crucial safety information, engaging trivia to boost retention, and on-site visits to celebrate the Agency's safety commitment. This initiative aims to foster a strong safety culture and minimize workplace risks.

5. COMMITTEE MEMBER COMMENTS

There were no Committee member comments.

6. COMMITTEE MEMBER REQUESTED FUTURE AGENDA ITEMS

There were no Committee member requested future agenda items.

ADJOURNMENT

Committee Chair Camacho adjourned the meeting in memory of NBA icon and Hall of Fame athlete Jerry West at 10:32 a.m.

Respectfully submitted,

Jennifer Hy-Luk
Executive Assistant

*A Municipal Water District

APPROVED: JULY 10, 2024

DRAFT

Date: July 10, 2024

To: The Honorable Board of Directors **From:** Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

Staff Contact: Christiana Daisy, Deputy General Manager

Subject: Amend Contract for Regional Water Education Program

Executive Summary:

Inland Empire Utilities Agency (Agency) and its customer agencies continue to provide elementary school students with education on water use efficiency, pollution prevention, and other water topics through the Regional Water Education Program (RWEPP). The Agency has implemented this program over the last twenty years, and it has evolved into the successful program it is today. Over the last fiscal year, six out of nine customer agencies participated in the program, reaching over 14,000 students and nearly 50,000 students over the last three years.

On March 17, 2021, the Agency advertised a request for proposals for the RWEPP. On June 9, 2021, the Agency entered into a contract agreement with the selected vendor, the National Theatre for Children, for a not-to-exceed (NTE) amount of \$60,000. Since then, the RWEPP contract has been amended twice in response to customer agency demand, with a current NTE total of \$145,572. Staff is requesting an additional \$150,000 to increase the contracted NTE amount up to \$295,572 (103% increase) to allow for continued programming through June 2026 and respond to a projected increase in RWEPP demand.

Staff's Recommendation:

Staff recommends that the Committee/Board:

1. Approve a contract amendment to National Theatre for Children for the Regional Water Education Program, in the amount of \$150,000, increasing the contract from \$145,572 to a not-to-exceed amount of \$295,572 (103% increase) through June 30, 2026; and
2. Authorize the General Manager to execute the contract amendments subject to non-substantive changes.

Budget Impact *Budgeted (Y/N): Y Amendment (Y/N): N Amount for Requested Approval*

Fiscal Impact (explain if not budgeted):

There will be no immediate budget impact. The amended contract amount has been considered and budgeted accordingly.

Regional Sewerage *Technical Committee (Y/N):*

Policy Committee (Y/N):

Environmental Determination:

Not Applicable

Attachments:

Attachment 1 - [PowerPoint](#)



Amend Contract for Regional Water
Education Program

Christopher Garcia
Environmental Resources Planner II
July 2024

Program Educates Students and Teachers (K-5) on How to be Environmental Stewards Through Theater



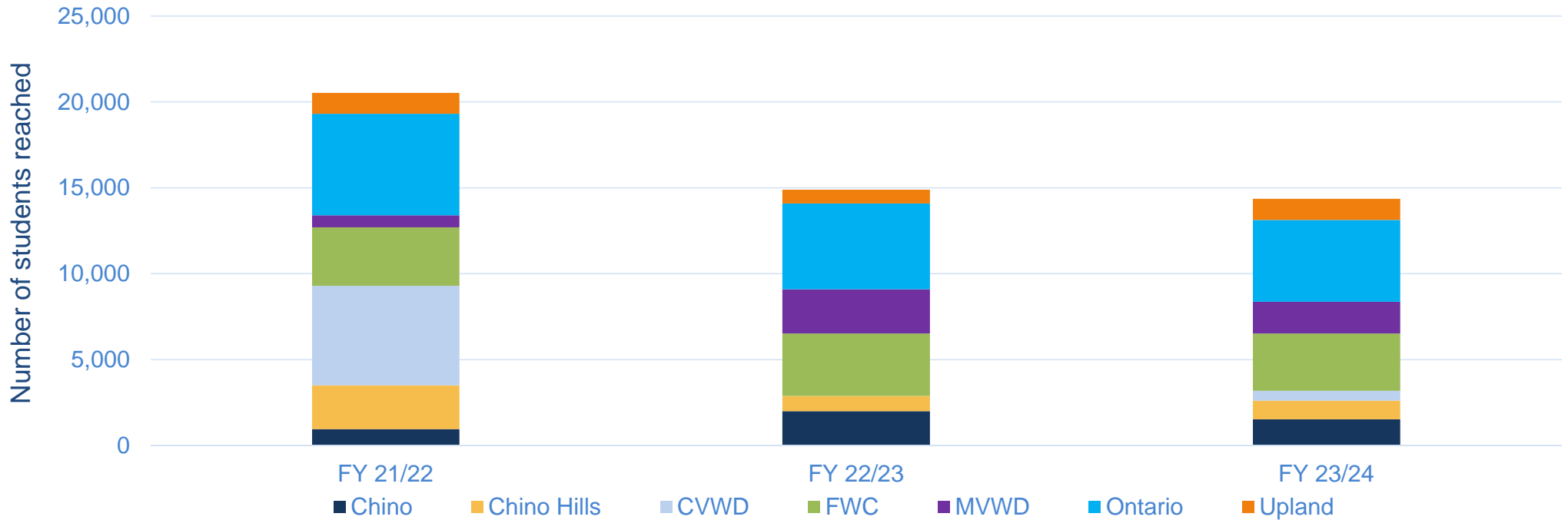
Focused on water conservation, pollution prevention, and more

Digital and printed teacher playbooks and games

Educators most recently evaluated the program (6.75 / 7 score)

*“This was an absolute treat for the kids! We are so blessed to have this program come to our school. Thank you”
– Teacher from the City of Upland*

Nearly 50,000 Students Reached in the Last Three Years



“Thank you so much for offering this program to our schools. My students enjoyed watching it and learning about water conservation!” – Teacher from the City of Chino

Program Has Been Well Received by Customer Agencies and Demand is Projected To Grow



- Funded by Water Use Efficiency flex funds
- Six out of nine customer agencies actively participate
- Demand is increasing (72%) in FY 2024/25

June 2021

Request for proposal contract awarded to the National Theatre for Children for \$60K

July 2022
Contract increased by \$40K

June 2023
Contract increased by \$45K

July 2024
Requesting \$150K increase through 2026

Current Contract Value \$145K

“My kids enjoyed the show! They learned a lot. We even did the dance: evaporation, condensation, precipitation, and collection! Thank you so much for visiting.” – Teacher from the City of Fontana

Staff's Recommendation

1. Approve a contract amendment to National Theatre for Children for the Regional Water Education Program, in the amount of \$150,000, increasing the contract from \$145,572 to a not-to-exceed amount of \$295,572 (103% increase) through June 30, 2026; and
2. Authorize the General Manager to execute the contract amendments subject to non-substantive changes.

The Regional Water Education Program is consistent with **IEUA's Business Goal** of increasing **Water Reliability** by promoting water use efficiency and education to enhance water supplies within the region in order to reduce dependence on imported water supplies.

Date: July 10, 2024

To: The Honorable Board of Directors **From:** Shivaji Deshmukh, General Manager

Committee: Engineering, Operations & Water Resources

Staff Contact: Christiana Daisy, Deputy General Manager

Subject: Regional Water Use Efficiency Business Plan for Fiscal Years 2024/25-2025/26
(Written/PowerPoint)

Executive Summary:

The Regional Water Use Efficiency Business Plan (Plan) is intended to position IEUA and its customer agencies to set goals and programming to meet increasing regulatory compliance, respond to future drought cycles, and improve water supply reliability. The Plan has served as a benchmark for water use efficiency (WUE) programming since 2010, with the upcoming Plan covering fiscal years 2024/25 and 2025/26.

The next two years will continue to build upon the *Core + Flex* WUE Model, developed in collaboration with the customer agencies for fiscal year 2022/23, and adapt to the evolving local needs of the customer agencies. In addition, this two-year Plan will align with the release of the new WUE state regulations and the implementation of new and innovative programs like the grant-funded Turnkey Turf Transformation Program.

Budget Impact *Budgeted (Y/N): N Amendment (Y/N): N Amount for Requested Approval*

Fiscal Impact (explain if not budgeted):

Programs that are identified in the WUE Business Plan for regional implementation are included or will be included as part of the water conservation budget in the Water Fund for fiscal year 2024/25 and subsequent years.

Regional Sewerage *Technical Committee (Y/N): N*
 Policy Committee (Y/N): N

Prior Board Action:

On June 15, 2022, the IEUA Board of Directors adopted the FY 2022/23-2023/24 Regional Water Use Efficiency Business Plan.

Environmental Determination:

Not Applicable

Attachments:

Attachment 1 - [Business Plan](#)

Attachment 2 - [PowerPoint](#)



Inland Empire Utilities Agency Regional Water Use Efficiency **Business Plan**

FYs 2024-26

Table of Contents

Executive Summary	3
Background	4
FORMAT OF NEXT WUE BUSINESS PLAN	5
RESPONDING TO PROGRESSIVE REGULATORY CHANGES	6
RESPONDING TO DROUGHT, CLIMATE CHANGE, AND REGIONAL SUPPLY RELIABILITY	7
RESPONDING TO CHANGES IN MWD'S WUE PROGRAMS	7
Core + Flex in FYs 2022-24	8
RESPONDING TO TEMPORARY DROUGHT CHANGES IN MWD'S WUE PROGRAM	8
THE BASIS FOR CORE VS. FLEX AND CHANGING CIRCUMSTANCES	10
EVALUATING THE BENEFITS OF FLEX FUNDING	11
Core + Flex in FYs 2024-26	11
TURNKEY TURF TRANSFORMATION PROGRAM	12
LOOKING FORWARD	12

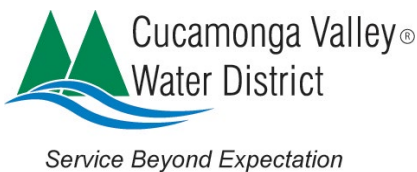
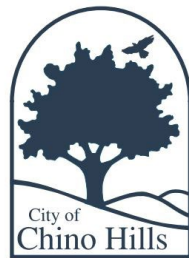


Executive Summary

The Inland Empire Utilities Agency (IEUA/Agency) Water Use Efficiency (WUE) Business Plan (BP/Plan) for programming during fiscal years (FYs) 2024-25 and 2025-26 serves to document recent efforts made towards regional water supply reliability and highlight plans to continue that path forward. In the previous WUE BP, IEUA and its Customer Retail Water Agencies (Customer Agencies), including the Cities of Chino, Chino Hills, Ontario, Upland, the Cucamonga Valley Water District, Fontana Water Company, Monte Vista Water District, San Antonio Water Company, and West Valley Water District established a trial period for the newly established “Core + Flex” program that is currently in its second year of implementation. Given the need to close out the current fiscal year before being able to analyze the program’s design, IEUA will extend the trial period by an additional two years to evaluate the success of the new program and consider what further changes, if any, are merited, and allow sufficient time to implement them.

IEUA will continue to provide regional WUE programming at an annual total budget of \$1.6 million plus additional, short-term programming made available through other external funding sources. Currently, the two sources of external funding are from the Metropolitan Water District of Southern California (MWD) and the Department of Water Resources (DWR) grant funding for the Turnkey Turf Transformation (T3) Program. Additional external funding may be accessible as it becomes available. IEUA’s Customer Agencies will continue to avail themselves of IEUA’s WUE programming options through the *Core + Flex* system.

Changes in external factors have already reshaped the design of IEUA’s WUE Programs and are likely to continue doing so. The Plan describes these factors and how the region is preparing collaboratively for a new era in Southern California water management.



Background

IEUA published the first Water Use Efficiency (WUE) Business Plan in 2010. The **2010 – 2015 WUE Business Plan** identified a mix of regional programs that would be managed and funded by IEUA to achieve a regional water savings goal. The Plan was a five-year roadmap for IEUA and its Customer Agencies, documenting a collaborative perspective on the purpose and general design of IEUA’s WUE programming to assure compliance with previous regulatory framework requirements and to maximize opportunities for accessing external funding sources.

Using the latest water savings studies, IEUA was able to identify and document the anticipated water savings to be generated from its regional WUE programs in its Business Plan. IEUA also published annual Regional WUE Program Reports¹ detailing updated program activity, water savings, expenditures, and additional WUE-related efforts. In this way, IEUA’s actual program activities could be matched against the anticipated goals.

The **2015 - 2020 WUE Business Plan** identified programmatic goals in support of a regional reduction in per capita water use, as was required by the new regulation known as “20 x 2020” (SBX7-7, 2008). California’s urban retail water agencies were required to reduce per capita demands by 20% by 2020. The regulation also allowed for retail agencies to achieve compliance individually or through a regional reduction and IEUA and its Customer Agencies signed an agreement to work together towards a regional goal of 201 gallons per capita per day (GPCD).

As a region, IEUA’s Customer Agencies were able to satisfy the requirements of SB 7X-7 and meet their 2020 GPCD goals via the regional goal-setting process. As the 20 x 2020 regulatory framework essentially concluded in 2020, new legislation was chaptered into law in 2018 (SB 606 and AB 1668). The new regulatory framework would establish Water Use Objectives (WUO) for each urban retail water agency and apply increasingly restrictive water use standards for all urban water use, except for indoor use in the Commercial, Industrial, and Institutional (CII) sectors. Due to the complexity of the new framework, the rulemaking process has been extensive and has not yet been finalized.

In the meantime, the Customer Agencies expressed a desire for change in the design of IEUA’s WUE program. As described in the **2022 – 2024 WUE Business Plan**, IEUA facilitated a series of meetings with its Customer Agencies to understand better what changes were desired. The *Core + Flex* program model was created, intending to:

- 1) Provide the Customer Agencies with more flexibility in their WUE program choices and
- 2) Address equity issues, assuring Customer Agency access to IEUA program funding commensurate with Customer Agency program funding collected on the MEU rate.

Core programs made up 70% of the WUE budget. They were programs that fell under MWD’s Tier 1 volumetric rate for treated water at the time, were considered cost-effective, and were deemed to have a regional benefit. Flex programs made up 30% of the WUE budget and provided Customer Agencies with funding for programs they identify as most valuable for their specific service area. Flex programs are not required to have measurable water savings. Still, they must be directly supportive of water use efficiency or conservation.

Recognizing that any new administrative system takes time to implement and work out all the details, IEUA planned to evaluate the effectiveness of the *Core + Flex* program over the next 2 – 3 years.

¹ All IEUA reports related to WUE can be found at www.ieua.org/read-our-reports/water-use-efficiency-reports

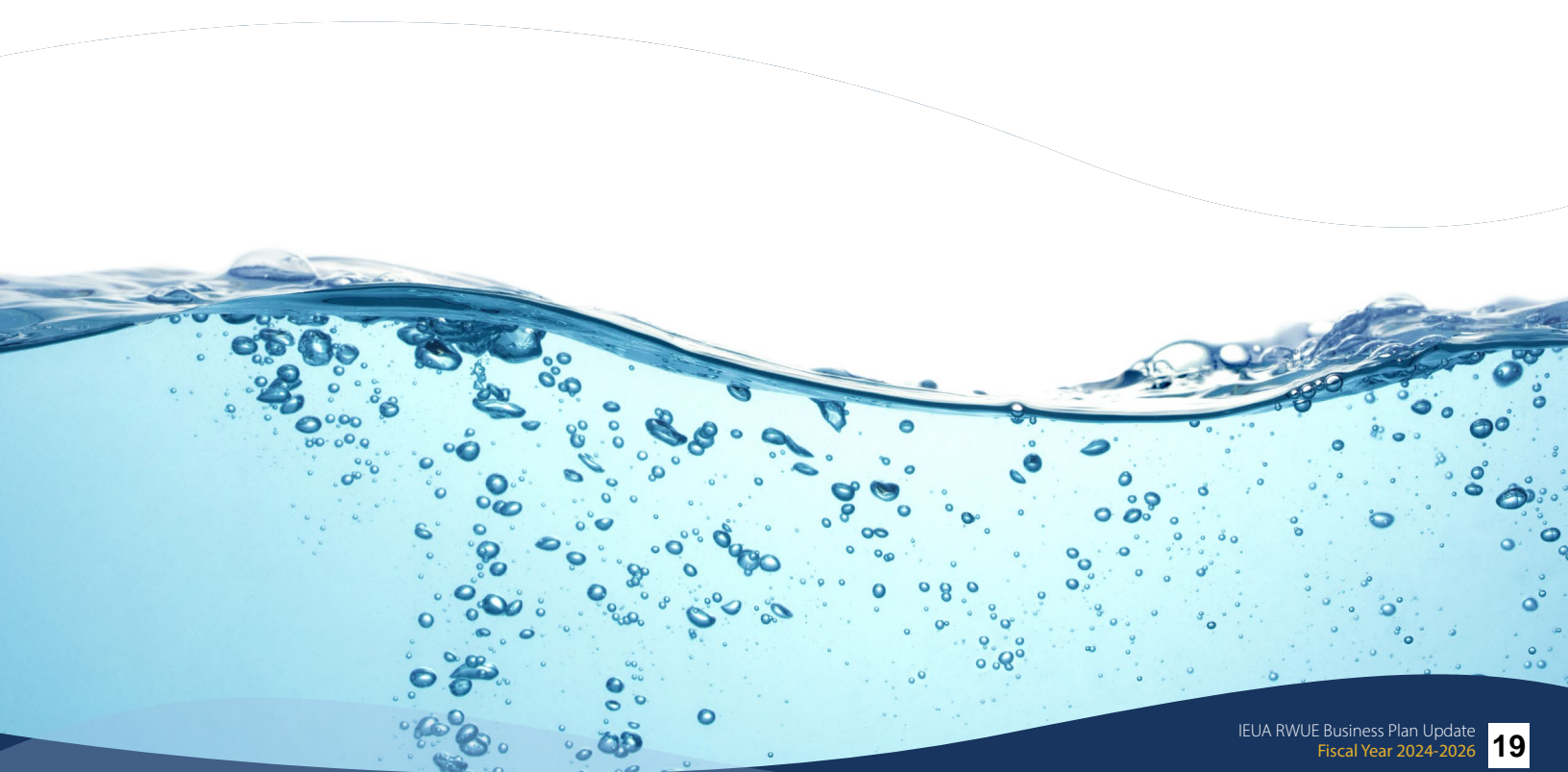
The purpose of this **2024 – 2026 WUE Business Plan** is to extend the evaluative process that has started over the past two years to determine the design of IEUA’s programming to fit the needs of the region. The Plan suspends the typical WUE Business Plan forecasting of future water savings associated with anticipated programmatic implementation. Instead, it will focus on what measures will be undertaken during this two-year interval to help inform the design of future IEUA WUE programs. Afterward, IEUA plans to return to a five-year incremental WUE Business Plan. Annual reports will continue to document programmatic water saving and other achievements.

FORMAT OF NEXT WUE BUSINESS PLAN

Preparing the next WUE Business Plan towards the end of this two-year interval will allow the region to understand better what changes are necessary for a longer-term plan. Another benefit to this timeline is that the longer-term WUE Business Plan may contribute to the development of the 2025 Urban Water Management Plan as it may effectively synchronize WUE program activity with current regional demand management goals described therein. As such, IEUA plans to prepare the next WUE Business Plan by July 1, 2026.

By 2026, several external factors will be better known. First, the new regulatory framework for *Making Water Conservation a California Way of Life* will have been adopted, along with the establishment of each Customer Agency’s WUO. Secondly, the Urban Water Management Plans of IEUA and its Customer Agencies will have been adopted and submitted to the DWR, providing long-term direction on the need for regional demand management programs and water savings investments. Finally, the evolving status of MWD’s water conservation program is expected to be better defined by this time.

IEUA will also continue to support its Customer Agencies by pursuing grant funding opportunities on behalf of the region to implement WUE programs, such as the T3 Program. Maximizing access to outside funding opportunities, including MWD’s MAAP funding, remains a cornerstone goal of IEUA’s WUE program.



RESPONDING TO PROGRESSIVE REGULATORY CHANGES

The Plan is intended to be used as a blueprint to help the region plan and implement WUE activities and programs in the near future. The strategies and programs included in the Plan are designed, in part, to facilitate each Customer Agencies' compliance with the requirements of each successive iteration of regulations, including:

- Assembly Bill (AB) 1420, requiring BMP compliance
- Senate Bill (SB) 7X-7, requiring 20% per capita water use reductions by 2020, and
- SB 606 and AB 1668, establishing a methodology for calculating efficient water use in terms of gallons per capita per day demands

Table 1. Summary of Regulatory Changes over Time Impacting Water Use Efficiency Programs

Regulatory Statute	Requirements	Approach	IEUA Plan
AB 1420 (2007)	Mandatory Best Management Practices (BMP) Compliance	Aligned with actions taken to meet CUWCC* BMP Compliance	2010-15 WUE BP
SB 7X-7 (2008)	Reduce per capita water use by 10% by 2015 and Reduce per capita water use by 20% by 2020	Customer Agencies set their own GPCD reduction goals and also signed an agreement to work with IEUA for an optional regional goal	2015-20 WUE BP
SB 606/AB 1668 (2018)	Customer Agencies are expected to establish annual Water Use Objectives (WUO) for efficient annual urban water use.	Continue to evaluate IEUA's approach to best support the needs of Customer Agencies to meet regulatory and supply reliability goals	WUE BPs for: FYs 2022-23 and 2023-24, FYs 2024-25 and 2025-26, & FYs 2026-27 through 2030-31

* CUWCC = California Urban Water Conservation Council, which no longer exists

While the basic architecture of the new regulatory framework was established in SB 606 and AB 1668 in 2018, the rulemaking process has proven to be more challenging and slower to implement than anticipated. Until the regulation has been finalized (expected to be by the end of 2024), conjecture on the nature of forthcoming changes is speculative and would be best addressed in the next Plan.



RESPONDING TO DROUGHT, CLIMATE CHANGE, AND REGIONAL SUPPLY RELIABILITY

Another main driver for the design of IEUA's WUE programs is the potential need for demand management programs to improve regional water resources. In 2022, IEUA was one of six MWD member agencies that had drought-related delivery restrictions placed on their service area due to its unique configuration in the MWD system. While many MWD member agencies may receive Colorado River and State Water Project (SWP) supplies, IEUA may only receive SWP supplies, which proved to be challenging during the droughts. These drought shortage conditions have followed three additional periods of supply restrictions since the turn of the twenty-first century.

RESPONDING TO CHANGES IN MWD'S WUE PROGRAMS

The region benefits from having a clear plan for accessing funding made available by MWD for programming outside of the programs they manage. Known as Member Agency Administered Programs (MAAP), MWD currently dedicates a total of \$715,000 to IEUA over its two-year budget period, which corresponds with the two years of the current and previous WUE BPs.

Since MAAP funds are already collected on MWD's rates and charges, IEUA strives to ensure the region is able to claim these dollars and use them effectively. To date, IEUA has managed the majority of the programs that are eligible for MAAP reimbursement. They include:

- Landscape Evaluation and Audit Program
- Large Landscape Retrofit Program
- Pressure Regulator Valve Program
- Landscape Tune-Up Program and
- Small Site Controller Upgrade Program

These water-saving opportunities have remained popular over time, with a steady stream of customers from the region signing up to participate. In FY 2023-24, MAAP funds were also extended directly to the Monte Vista Water District to implement a portion of its AMI installation program. This one-time extension of MAAP funding was made available to any Customer Agency that had a local program that met the MWD's MAAP guidelines within the designated program implementation timeline. Monte Vista Water District was the only Customer Agency that had a qualifying project at the time.

Passive vs. Active Conservation

Reductions in water use happen every day without any financial incentives from water agencies. These reductions are a result of plumbing codes and other legal or regulatory requirements mandating these changes in the design of water-using appliances or behaviors.

Future water demand modeling may take into consideration the fact that continued efficiencies in water use will occur because of passive water conservation, including a response to price elasticity as the cost of water inevitably increases.

The need for WUE programs to reduce future demands may be considered after factoring in savings associated with passive conservation.



Final qualifying MAAP expenses must be filed with MWD by the spring of the second year. IEUA diligently works to proactively identify strategies to ensure it can claim the MAAP funds dedicated to it. Moreover, IEUA also strives to capture other funding for the region, such as MWD's Leak Detection Grant Program, which provides reimbursement for contracted or in-house municipal leak detection services.

Core + Flex in FYs 2022-24

IEUA instituted its *Core + Flex* program on July 1, 2022, with the Customer Agencies submitting to IEUA a completed form beforehand indicating how they would like to assign their Flex funds. The form also identified the amount of Core funds that were allocated for their agency's use. IEUA used the following submitted participation forms:

The initial split of program funding in FY 2022-23 was set at 70% Core and 30% Flex, and the budget was set at \$1.6 million. During this time, IEUA was able to access \$640 thousand in retroactive grant funding. As a result of IEUA activating its Water Shortage Contingency Plan at Level 2 on December 5, 2021, the WUE Program had access to a special account of \$300,000 in drought funds for a total revised FY 2022-23 annual budget of \$2.5 million.

By the middle of FY 2022-23, drought conditions had escalated to the point that IEUA and its Customer Agencies faced restrictions in MWD deliveries of water. On December 21, 2022, IEUA extended the declaration of its Water Shortage Emergency Condition, implemented its Water Shortage Contingency Plan at Level 6, and adopted a revised Emergency Water Conservation Program framework. As a result, three changes were made: 1) additional special drought funds were released to help pay for extraordinary conservation efforts, increasing the annual budget from \$2.5 million to \$3 million, 2) the mix of *Core + Flex* was changed to 60% Core and 40% Flex in order to allow for the funding of drought relief programs that might not fit in the "Core" category, and 3) special programming was offered.

IEUA Water Use Efficiency Flex Project Form

Fiscal Year: 2022-2023
 Agency: The City of Chino
 Flex Budget: \$72,876

Flex Projects
 Retail Agencies may allocate Flex Funds to the Flex Projects below.

Project Name	Water Savings	Project Cost	Quantity	Flex Cost
National Theatre for Children	N/A	\$1,199.20 per school	2	\$4796.80
Landscape Training Classes	N/A	\$500 per class	2	\$1,000
CBWCD LEAP & Monitoring				
Residential Pressure Regulation	.0137 AFY	\$685 each		
Program Marketing Materials	Varies	Varies	Varies	
Water Fair	Varies	Varies		\$500
Subtotal				\$6296.8

*All project costs are estimates and are subject to change. Project activity will be completed up to the not-to-exceed flex cost.

Core Projects – Landscape Services – Additional Funding
 Retail Agencies may allocate Flex Funds to the Core Projects below and increase activity within their service area. These sites are in addition to those serviced through the Core Project allocations.

Project Name	Water Savings	Project Cost	Quantity	Flex Cost
Residential Landscape Tune-Ups	.231 AFY Per Site	\$367 Per Site		
Residential Small Site WBIC Retrofits	.045 AFY Per Site	\$826 Per Site		
Residential Large Site WBIC Retrofits	.343 AFY Per Site	\$639 Per Site		
Subtotal				

*All project costs are estimates and are subject to change. Project activity will be completed up to the not-to-exceed flex cost.

RESPONDING TO TEMPORARY DROUGHT CHANGES IN MWD'S WUE PROGRAM

One of the most impactful drought changes to which IEUA had to respond was a seemingly small change in MWD's Turf Rebate programs. In recent years, IEUA had included a significant amount of its WUE Program dollars, providing an extra dollar on top of MWD's \$2/square foot rebate for turf replacement, resulting in a \$3/square foot incentive for customers in the IEUA service area.

At the beginning of FY 2022-23, \$250,000 (16%) of IEUA's annual WUE Program was dedicated to providing an extra \$1 on top of MWD's Turf Replacement Rebate program.

After MWD declared drought conditions in the State Water Project Dependent Areas (SWP-DA), which included IEUA, it decided to temporarily extend the period in which customers could finish turf replacement projects and remain eligible for the rebate. The original terms of the Turf Replacement Rebate Program allowed customers six months to complete a project after applying for turf replacement funding. Following the change, select applicants were allowed one year to complete their projects and, on occasion, were allotted additional time.

The change created unforeseen accounting difficulties. IEUA was in a position to earmark funds with MWD to honor the rebate applications that were given extensions. These applications were paid around the 12-month grace period or were returned to IEUA whenever time expired or the customer otherwise discontinued their application. The change effectively made annual budgeting very difficult and complex in establishing accurate annual Flex budgets.

The best way to address this issue was to remove the \$1 per square foot financial incentive from MWD’s Turf Replacement Rebates and move it into programming, over which it had more control. The region supported the approach for a variety of reasons, including MWD successfully being awarded grant funding to add \$1 per square foot to the Turf Rebates so the transition would be seamless for customers while grant funding lasted.

As of FY 2023-24, the region continues to refrain from adding to MWD’s Turf Rebate Program, and only a select few Customer Agencies allocate their Flex funds locally to enhance turf rebates. In addition, only a small portion of IEUA’s budget, approximately \$85,000 (5%), is added to MWD’s residential device rebates. In contrast, the bulk of IEUA’s FY 2023-24 budget (\$1.5 million) funds IEUA-managed programs, as is represented in Figure 2.

Figure 1. MWD/IEUA Programming in Fiscal Year 2023-24.

MWD Direct Programs (SoCal)	Dual Funded IEUA Managed (Regional)	IEUA Funded and Managed (Regional)	Retail Agency Managed (Local)
<ul style="list-style-type: none"> • Rebates • MA Administered Program (MAAP) – Pass through for unique programs • Lead Detection 	<ul style="list-style-type: none"> • Landscape Irrigation Tune-ups, Controller Retrofits, Landscape Evals, Pressure Regulating Valves 	<ul style="list-style-type: none"> • Rebate Add-ons • Memberships • Education • R&D • Grant Funded 	<ul style="list-style-type: none"> • Rebate Add-ons • Locally Funded – Indoor Leak Repair
Funded through MWD Rates, No direct cost to IEUA	\$357K MAAP + \$1.1M IEUA Dollars (MEU & Connection Fees)	\$100K (MEU & Connection Fees) + Grant Funding	

This shift in program funding priorities immediately reduced wait times for IEUA’s most popular programming. It freed up budgeted funds for use in the current fiscal year instead of being tied up in commitments to MWD turf rebates.

Historically, approximately 60% of applications for MWD Turf Replacement rebates were completed, and a significant number of customers did not complete their envisioned turf replacement project after submitting their applications. Still, IEUA had to dedicate the funds as though 100% of the projects would have been completed until the application expired. IEUA strived to expend WUE program funding in the year it is committed, whenever possible, to reduce the need to carry forward funding from one fiscal year to the next. The budgetary shift away from regional turf rebates has been beneficial from multiple perspectives:

- Allowing more funding of IEUA-managed WUE programs, thereby reducing wait time for the especially popular programs.
- Reducing the administrative burden of reconciling “committed” vs. “actual” funding for MWD’s Turf Replacement rebates and the need to carry forward IEUA funding from one fiscal year to another.
- Accessing MWD turf grant funding, which temporarily augments the base turf rebate amount of \$2/square foot to \$3/square foot, offsetting the reduction in IEUA funds for the present time.



THE BASIS FOR CORE VS. FLEX AND CHANGING CIRCUMSTANCES

When the *Core + Flex* Program was originally designed, it was assumed that “Core” programs would have a calculated cost per acre-foot that was less than a surrogate cost of purchasing an acre-foot of treated water from MWD. Programs without proven water savings (i.e., education programs) and those with a cost per acre-foot higher than the cost of an acre-foot of MWD’s water were put in the “Flex” program category.

It should be noted that programs offered by the Chino Basin Water Conservation District (CBWCD) are the exception to these categorization guidelines. CBWCD provides these services at no cost to customers within their service area, which is a subset of IEUA’s service area. CBWCD only charges IEUA for services that fall outside of their service area but within the IEUA service area. The programs offered by CBWCD are made available through Flex program funding, even though the cost-effectiveness of the programs would qualify them as Core programs.

IEUA’s main interest in establishing a 70/30 split between Core and Flex funding was to preserve the overall cost-effectiveness of its programs. In 2022, the cost to purchase an acre-foot of (Tier 1) treated water from MWD was \$1,143, which has since increased to \$1,256 in 2024. The rising cost of MWD’s water over time will have the effect of elevating the benchmark for “cost-effectiveness” to the point where most programs with quantifiable savings should qualify as “Core,” leaving only non-quantifiable programs as “Flex.” This consideration may be examined when the program’s future design is next evaluated.

EVALUATING THE BENEFITS OF FLEX FUNDING

One of the aspects of the *Core + Flex* program that is evolving in terms of understanding its full benefit and desirability has been the ability for Customer Agencies to access IEUA/MWD funds through the “Flex” part of the program. While IEUA has occasionally funded local WUE programs prior to the *Core + Flex* program, the institutionalization of the annual application process in which Customer Agencies select how to spend their “Flex” funds has provided the ability for the Customer Agencies to develop more customized programs locally that might be more experimental in design and onboard services that directly meet their WUE needs.

Examples include:

- Cucamonga Valley Water District Multi-family Toilet Tank Retrofit Program
- Monte Vista Water District’s Low-income Leak Detection and Repair Program
- The City of Ontario’s CII WUE Data Management Software for meeting conservation requirements

Core + Flex in FYs 2024-26

As described previously, IEUA plans to spend fiscal year 2024-25 evaluating the success of the design of the *Core + Flex* program as employed in fiscal years 2022-23 and 2023-24. The metrics for this evaluation should be available in FY 2024-25 and considered for FY 2025-26. Metrics include:

- Ability to spend full annual budget
- Ability to maximize MWD reimbursements through MAAP funds and other grant funds
- Satisfaction with IEUA’s managed programs by IEUA Customer Agencies and customers
- Distribution of program benefits among Customer Agencies in relation to contributions
- Program accountability and transparency
- Ability of the *Core + Flex* Program to adapt to changing circumstances
- Others, if applicable

IEUA plans to consult with its Customer Agencies to evaluate these performance metrics in FY 2024-25 and utilize this information to provide a comprehensive review of the *Core + Flex* Program. It is recommended that during the next two years, IEUA’s WUE budget remain stable at \$1.6 million gross, plus grant-funded projects (Turnkey Turf Transformation Program). IEUA also proposes establishing the *Core + Flex* funding to be split 50/50 during this two-year period in order to provide greater flexibility to its Customer Agencies to select preferred programming options that best meet their local needs. IEUA plans to continue to offer the services of a consultant to evaluate the impact that the new conservation regulations will have on the Customer Agencies and prepare inaugural Water Use Objectives (WUO) by January 1, 2025, and thereafter, as needed. While not a conservation program, these services are essential for Customer Agencies to be prepared to comply with the new conservation regulations.

With this information in hand, IEUA may include consideration of the latest information on the new regulatory framework for *Making Water Conservation a California Way of Life*, current information related to future demand modeling and anticipated regional supply reliability, and the current design of MWD’s WUE Programs. Within the next two years, IEUA plans to recommend a preferred administrative approach going forward, leaving time in the last two quarters of FY 2025-26 to articulate this pathway forward in IEUA’s next WUE Business Plan for FYs 2026-31 (five-year term).



IEUA seeks to establish an administrative approach in 2026 that is sufficiently durable to sustain the region's goals for overall WUE. Additional considerations for the next WUE BP that may be augmented after consulting with the Customer Agencies may include:

- An updated Communications Plan to provide regional messaging related to Making Water Conservation a California Way of Life, including the ban on irrigating non-functional turf.
- Consideration of System Leak Detection as an ongoing program.
- Additional programmatic flexibility to consider a permanent 50/50 split between *Core* + *Flex* or potentially a higher percentage for Flex funding.
- Additional support to help the Customer Agencies meet their Water Use Objectives.

TURNKEY TURF TRANSFORMATION PROGRAM

This two-year period will include a special grant-funded program for which IEUA was able to secure State grant funding. With approximately \$2.5 million dedicated to the IEUA region, the T3 Program will provide no-cost turf removal and relandscaping services to public institutions and high-visibility CII sites to showcase and promote relandscaping as a priority for living sustainably in Southern California. IEUA has also applied for an additional \$2.5 million in federal funding to double the square footage of turf to be replaced. IEUA has continuously played a role in securing grant funding to implement water-use efficiency programs that benefit the region. All administrative costs are anticipated to be reimbursed by the grant(s), and no local matching funds are anticipated.

LOOKING FORWARD

IEUA and its Customer Agencies will continue to implement key programs, measures, education, and outreach during the next two years of this WUE Business Plan Update. IEUA plans to prepare another update in late FY 2025-26.





Regional Water Use Efficiency Business Plan for Fiscal Years 2024/25-2025/26

Christopher Garcia
Environmental Resources Planner II
July 2024

Working Towards Regional Water Use Efficiency (WUE) Goals Starts with Collaboration and Planning



2010-2015

- Set forth actions to meet WUE best management practices
- Identified regional programs for water savings

***Assembly Bill 1420**



2015-2020

- Determined goals for 20x2020 regulation
- Planned new programs to continue WUE efforts

***Senate Bill X7-7**



2022-2024

- New WUE Regulatory Framework introduced
- New *Core + Flex* Model

***Senate Bill 606/
Assembly Bill 1668**



2024-2026

- Meet Water Use Objective
- Non-functional turf (NFT)
- Improve *Core + Flex Model*
- Set goals for new priorities

***Assembly Bill 1572**

FY 2022-24 Core + Flex WUE Model Has Provided Greater Programming Flexibility to Customer Agencies

Core + Flex breakdown (70/30 ➔ 60/40)

- Core: Cost-effective or provides regional benefit
- Flex: Non-quantifiable programming

Turf replacement rebate program changes

- IEUA removed its \$1 sq/ft. contribution to supplement other needs
- Customer agencies may continue funding

Regional sub-committees

- Accountability Committee
- New Programs Committee

Adaptive to drought and regulatory needs

- Local and tailored programming



IEUA Water Use Efficiency Flex Project Form

Fiscal Year: 2022-2023
 Agency: The City of Chino
 Flex Budget: \$72,876

Flex Projects
 Retail Agencies may allocate Flex Funds to the Flex Projects below.

Project Name	Water Savings	Project Cost	Quantity	Flex Cost
National Theatre for Children	N/A	\$1,199.20 per school	2	\$4796.80
Landscape Training Classes	N/A	\$500 per class	2	\$1,000
CBWCD LEAP & Monitoring				
Residential Pressure Regulation	.0137 AFY	\$585 each		
Program Marketing Materials	Varies	Varies	Varies	
Water Fair	Varies	Varies	Varies	\$500
Subtotal				\$6296.8

*All project costs are estimates and are subject to change. Project activity will be completed up to the not-to-exceed flex cost.

Core Projects – Landscape Services – Additional Funding
 Retail Agencies may allocate Flex Funds to the Core Projects below and increase activity within their service area. These sites are in addition to those serviced through the Core Project allocations.

Project Name	Water Savings	Project Cost	Quantity	Flex Cost
Residential Landscape Tune-Ups	.231 AFY Per Site	\$387 Per Site		
Residential Small Site WBIC Retrofits	.045 AFY Per Site	\$826 Per Site		
Residential Large Site WBIC Retrofits	.343 AFY Per Site	\$639 Per Site		
Subtotal				

*All project costs are estimates and are subject to change. Project activity will be completed up to the not-to-exceed flex cost.



Planned FY 2024-26 *Core + Flex* Model Would Build Upon Progress Made and Adapt to Evolving Regional Needs

Core + Flex breakdown (50/50)

- Supporting customer agency specific needs
- Adapting to feedback received

Evolving programs and initiatives

- Discussing NFT ban resources
- Considering distribution system leak detection program
- Onboarding support for meeting regional water use objective

Turnkey Turf Transformation Program

- \$8.4 million grant (no IEUA cost share)
- Cross-regional, IEUA-led program
- Directly remove NFT in underrepresented communities





Questions?



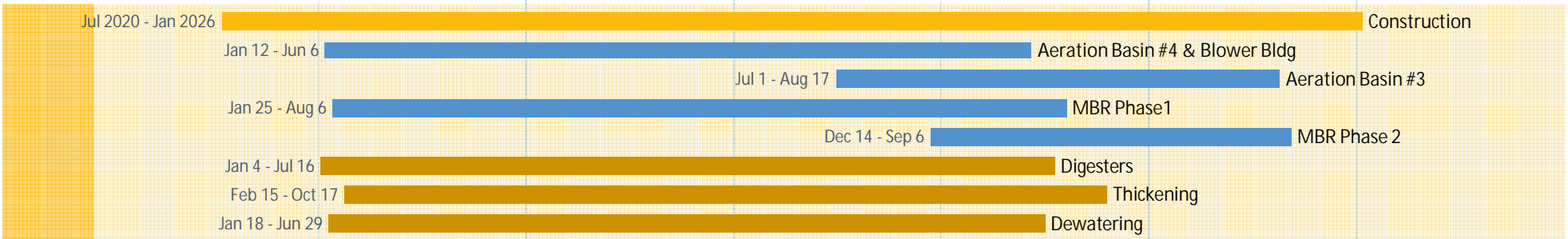
RP-5 Expansion Project Update July 2024

Project Nos. EN19001 and EN19006

Brian Wilson P.E., CCM
Principal Engineer
July 2024

RP-5: Project Status

Day 1446 of 2005 = 72%



Role	Firm	Contract	This Month's Payment	Total Paid	% Complete
Contractor	WM Lyles	\$339,188,519	\$2,489,648	\$276,116,631	81%
Designer	Parsons	\$40,551,961	\$329,470	\$36,391,684	90%
Construction Management	Arcadis	\$21,125,523	\$384,943	\$16,865,155	80%

Data date: 6/30/24



RP-5: Electrical Status Update

✓ COMPLETED

- New SCE Circuit Installation
- New Generator System Testing

! Planning for this event

- Oct. 2017: First Meeting with SCE Planner
- Nov. 2017: Service Upgrade Submitted to SCE
- Mar. 2020: Final SCE Design of Upgrade
- Jul. 2020: RP-5 Project Award
- Oct. 2022: Coordination Study to SCE
- Jan. 2024: IEUA Green Tag Installation
- Jun. 2024: SCE Service Upgrade Complete

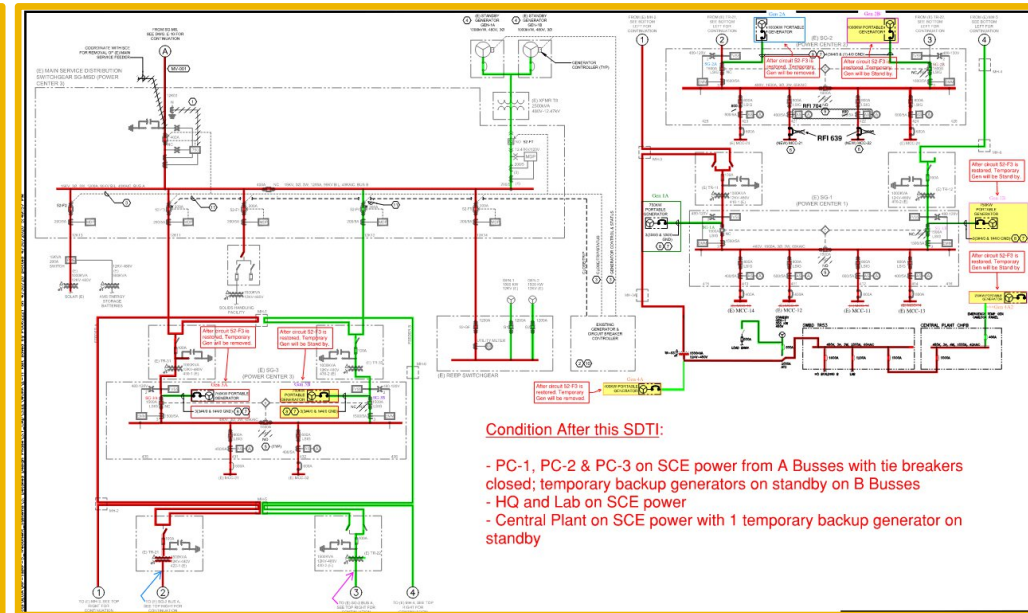
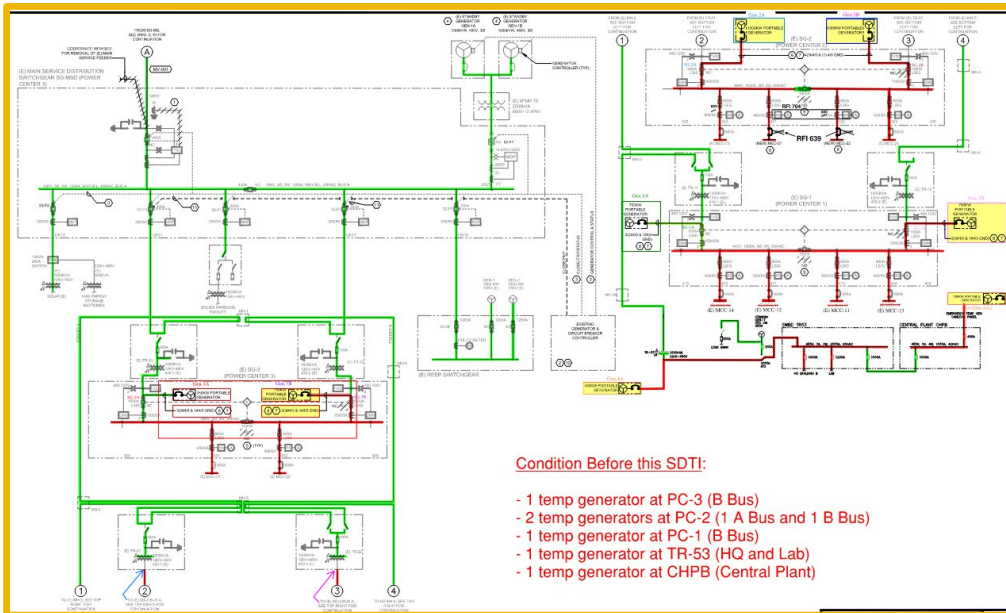


SOUTHERN CALIFORNIA
EDISON

An *EDISON INTERNATIONAL* Company



RP-5: Shutdown Tie In Plans



- Installation of Temporary Generators
- Testing of Temporary Generators
- SCADA Software Install
- New Power Feed Transition
- Disconnect Temporary Generators
- Complete System Testing
- SCE Power Cutover Contingency Plan

8 Plans

• 37 Review Cycles

RP-5: Coordination During the Event



Daily Large Group General Update

- June 2 to June 20
- 2:00 PM
- Status update overall
- Confirm staff on-call
- Confirm onsite overnight
- Issue check in

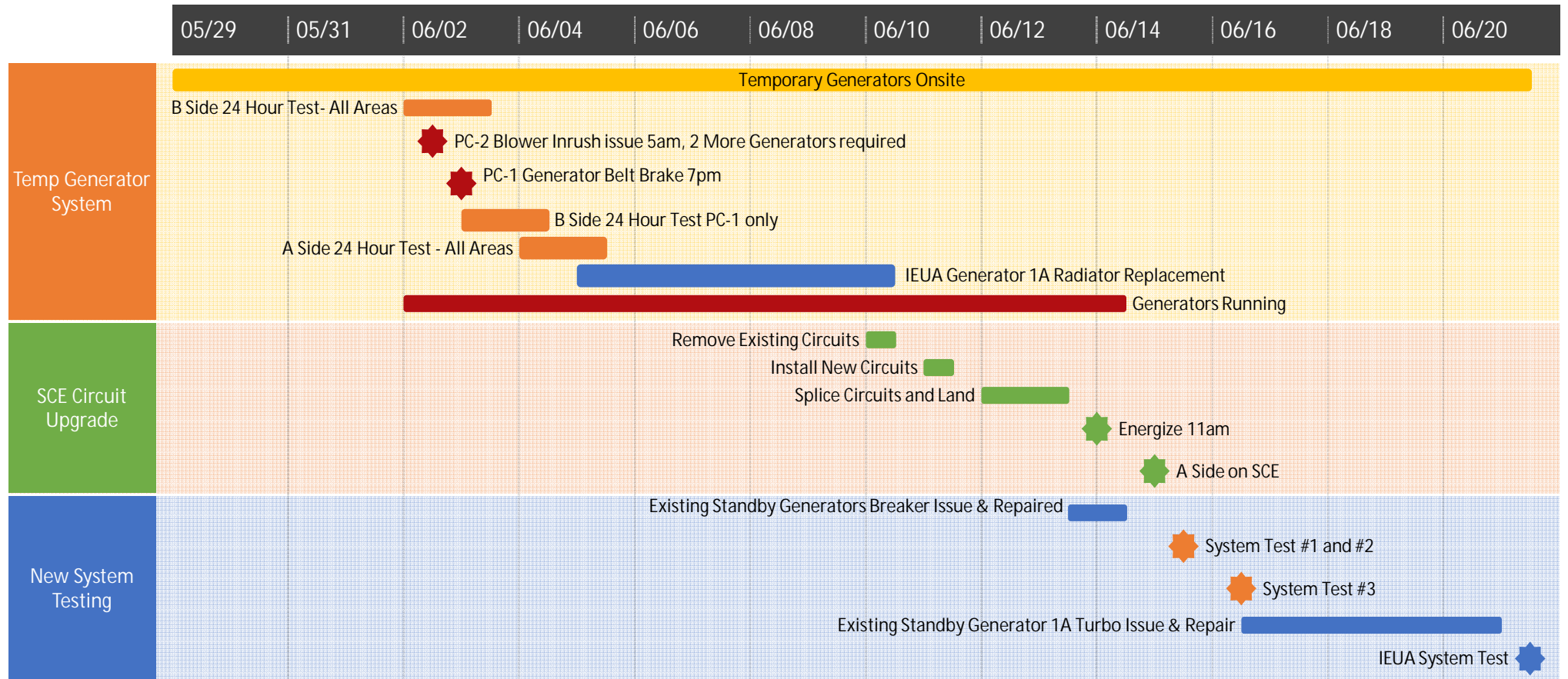


Project Level Huddle Daily

- June 10 to June 17
- 8:00 AM
- SCE progress update
- Next step coordination
- Issue follow up
- Detailed coordination



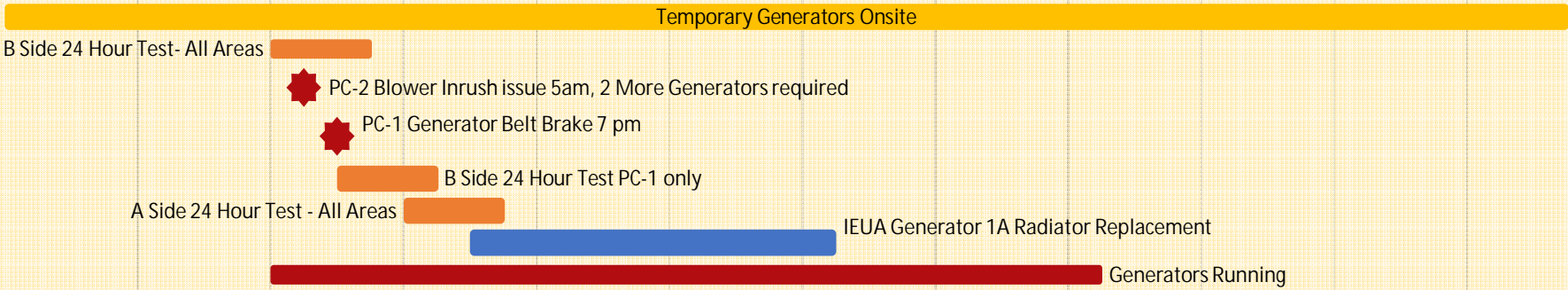
RP-5: SCE Upgrade Schedule



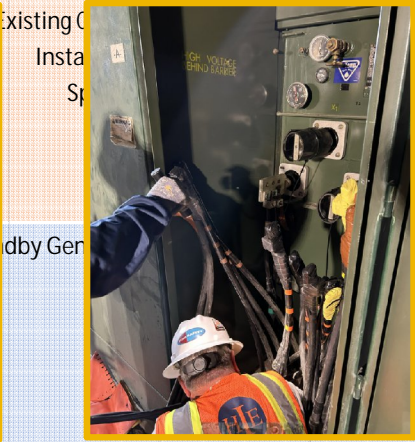
RP-5: SCE Upgrade Schedule

05/29 | 05/31 | 06/02 | 06/04 | 06/06 | 06/08 | 06/10 | 06/12 | 06/14 | 06/16 | 06/18 | 06/20

Temp Generator System



SCE Circuit Upgrade



New System Testing

RP-5: SCE Upgrade Schedule

05/29 | 05/31 | 06/02 | 06/04 | 06/06 | 06/08 | 06/10 | 06/12 | 06/14 | 06/16 | 06/18 | 06/20

Temporary Generators Onsite

Temp Generator System



at 5am, 2 More Generators required
 at Brake 7 pm
 Hour Test PC-1 only

IEUA Generator 1A Ra



Energize 11am

A Side on SCE

its
 and Land

aker Issue & Repaired

System Test #1 and #2

System Test #3

Standby Generator 1A Turbo Issue & Repair

IEUA System Test



RP-5: SCE Upgrade Schedule

05/29 | 05/31 | 06/02 | 06/04 | 06/06 | 06/08 | 06/10 | 06/12 | 06/14 | 06/16 | 06/18 | 06/20

Temporary Generators Onsite

B Side 24 Hour Test - All Areas

★ PC-2 Blower Inrush issue 5am, 2 More Generators required

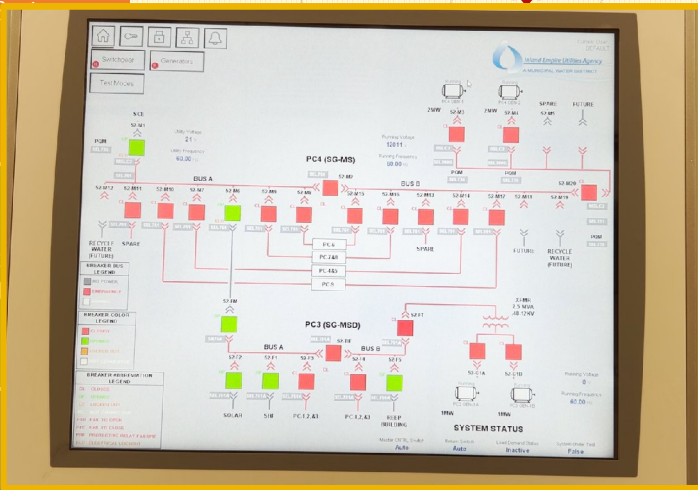
★ PC-1 Generator Belt Brake 7 pm

24 Hour Test PC 1 only

Temp Generator

SCU

New System Testing



★ System Test #3

Existing Standby Generator 1A Turbo Issue & Repair

IEUA System Test ★

RP-5: Power Center 1 (Influent Pumps & Headworks)



Online 1 MW



Standby 1 MW

RP-5: Power Center 2 (Aeration Basin, Secondary Clarifiers)



A Side: Online 1 MW & Standby 1 MW

B Side: Online 1 MW & Standby 1 MW

RP-5: Power Center 3 (Existing SCE Connection, RW System)



Online 1 MW & Standby 1 MW

Plant Standby Power (Not Available for Cutover)

- **PC-3 (Existing):**
 - Gen 1A: 1 MW
 - Gen 1B: 1 MW
- **PC-4 (New):**
 - Gen 1: 2 MW
 - Gen 2: 2 MW

RP-5: TR53 (HQA, HQB, & Lab)

- Plant Standby Power
(Available for Cutover)**
- **Transformer 53 (TR-53)**
 - **Gen 1: 300 kw**



Online 400 kW

RP-5: Central Plant (Cooling for HQA, HQB, & Lab)



Online 300 kW



Standby 300 kW

RP-5: Generator Power Summary

Location	Generator	Power Rating
PC-1	Generator A (Online)	1 MW
	Generator B (Standby)	1 MW
PC-2	Generator A (Online)	1 MW
	Generator B (Online)	1 MW
	Generator A2 (Standby)	1 MW
	Generator B2 (Standby)	1 MW
PC-3	Generator A (Online)	1 MW
	Generator B (Standby)	1 MW
TR-53 (HQB + Lab)	Generator A (Online)	400 kW
Central Plant	Generator A (Online)	300 kW
	Generator B (Standby)	300 kW
Totals		Online: 4.7 MW Standby: 4.3 MW Total: 9.0 MW

Total Fuel Consumed ~ 43,400 gallons over 12 days

RP-5: Existing Generator 1A Radiator Replacement



Old Unit Removed



New Unit Installed

RP-5: New SCE Circuit Path



RP-5: New SCE Circuit



Prado Road Power Pole



RP-5: New SCE Circuits



Installation of 2" Diameter Cables

RP-5: New SCE Circuits



Park Vault in Park to Pole: 180'



Park Vault to RP-5 Vault: 700'

RP-5: Cutover from Generator to Utility

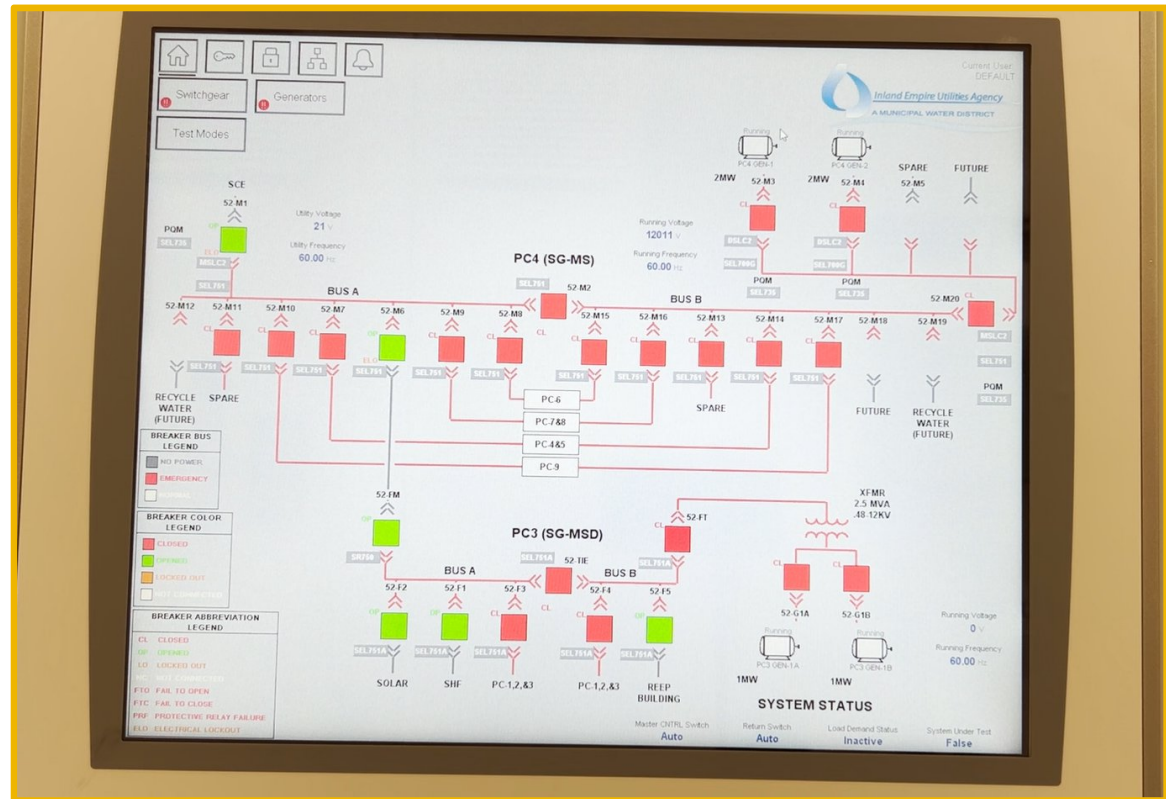


Disconnecting Temporary Generators

RP-5: Control System & Generator Testing



Control System



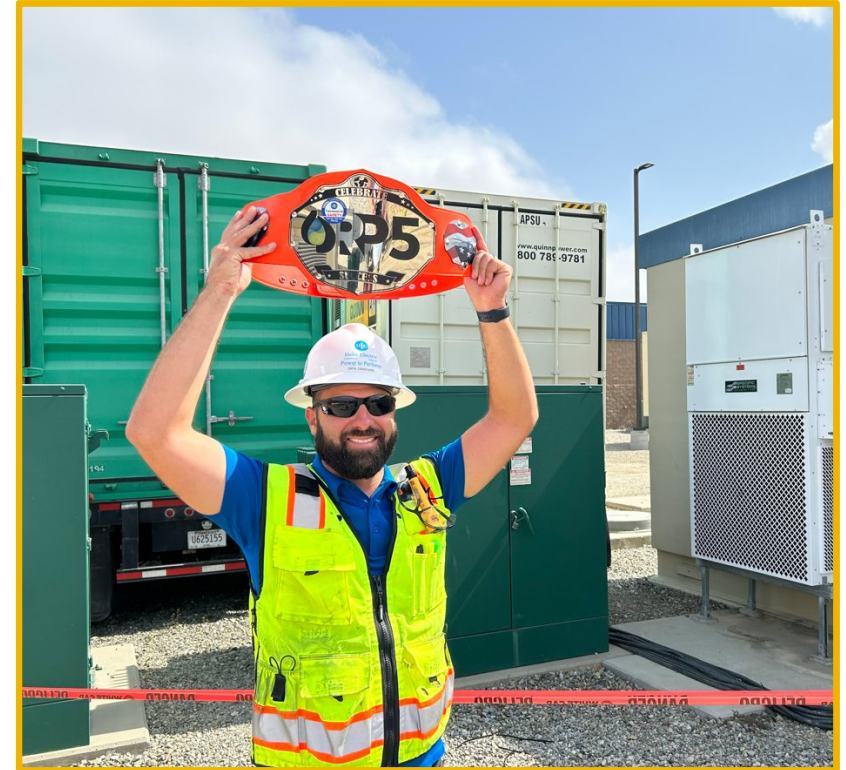
Generator Testing

RP-5: Existing Generator G1A



Turbo Replacement & Load Bank Testing

RP-5: Success Champion



Devin Dunnicliffe - Helix

RP-5: Success Celebration



Questions

