AGENDA
REGULAR WORKSHOP OF THE BOARD OF DIRECTORS

WEDNESDAY, MAY 3, 2023
10:00 A.M.

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

VIEW THE MEETING LIVE ONLINE AT IEUA.ORG
TELEPHONE ACCESS: (415) 856-9169 / Conf Code: 169 113 791#

The public may participate and provide public comment during the meeting by joining in-person or by calling the number provided above. Comments may also be submitted by email to the Board Secretary/Office Manager Denise Garzaro at dgarzaro@ieua.org prior to the completion of the Public Comment section of the meeting. Comments will be distributed to the Board of Directors.

CALL TO ORDER OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF DIRECTORS WORKSHOP

FLAG SALUTE

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 persons wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to email the Board Secretary/Office Manager prior to the public comment section or request to address the Board during the public comments section of the meeting. Comments will be limited to three minutes per speaker. Thank you.

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.

*A Municipal Water District
1. WORKSHOP ITEMS
   A. CHINO BASIN PROGRAM UPDATE (POWERPOINT)
   B. TEN-YEAR CAPITAL IMPROVEMENT PLAN AND TEN-YEAR SEWER CAPITAL FORECAST FISCAL YEAR 2023/24 – FISCAL YEAR 2032/33 (POWERPOINT)
   C. 20TH ANNIVERSARY OF IEUA’S REGIONAL WATER USE EFFICIENCY PROGRAM (POWERPOINT)

2. GENERAL MANAGER’S COMMENTS

3. BOARD OF DIRECTORS’ REQUESTED FUTURE AGENDA ITEMS

4. DIRECTORS’ COMMENTS

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 dgarzano@ieua.org, 48 hours prior to the scheduled meeting so that IEUA can make reasonable arrangements to ensure accessibility.
CBP Update Overview

- Preliminary Design
- Agreements Status
- Stakeholder Outreach
- Consultant Program Manager/Owner Engineer Solicitation
- Budget Status
- Next Steps
Now is the Time to Make Every Drop Count

Replenishing Wells

- City of Rialto
- WRCRWA

RW Supply
External
- City of Rialto
- WRCRWA

AWPF

PUT-Infrastructure

Replenishing Well Field Detail
## CBP Update - Local Agreements

<table>
<thead>
<tr>
<th>Major Activity</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rialto Recycled Water Purchase Agreement (IEUA, City of Rialto)</td>
<td>Summer 2023</td>
</tr>
<tr>
<td>WRCRWA Recycled Water Purchase Term Sheet (IEUA, WRCRWA)</td>
<td>Fall 2023</td>
</tr>
<tr>
<td>CBP Performing Agency Term Sheet (CVWD, FWC, IEUA)</td>
<td>December 2023</td>
</tr>
<tr>
<td>• Dedication of “right of first purchase” IEUA recycled water</td>
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<td>• Operations and performance criteria</td>
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<td>• Ownership and cost allocation</td>
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<tr>
<td>• Establish CBP Operating Committee</td>
<td></td>
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<tr>
<td>CBP Exchange Agreement (IEUA, MWD)</td>
<td>December 2023</td>
</tr>
<tr>
<td>• Operations and performance criteria</td>
<td></td>
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<tr>
<td>• Inter-agency coordination with State for exchange</td>
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</tbody>
</table>
## CBP Update - State Agreements

### Major Activity Schedule

<table>
<thead>
<tr>
<th>Major Activity</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Public Benefit Agreements:</strong></td>
<td></td>
</tr>
<tr>
<td>1. Environmental (IEUA, CDFW)</td>
<td>Draft templates from State Summer 2023</td>
</tr>
<tr>
<td>2. Water Quality (IEUA, SWRCB)</td>
<td></td>
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<td>3. Emergency Response (IEUA, DWR)</td>
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</tr>
<tr>
<td><strong>Pulse Flow Agreement (DWR, CDFW)</strong></td>
<td>2024</td>
</tr>
<tr>
<td><strong>Water Exchange Agreements (IEUA, MWD, DWR)</strong></td>
<td>2024</td>
</tr>
<tr>
<td><strong>CWC Final Funding Award (IEUA, CWC)</strong></td>
<td>2025</td>
</tr>
</tbody>
</table>
Support by Arellano and Assoc. to conduct local community outreach

- Greater Ontario Business Council
- Inland Empire Regional Economic Partnership
- Inland Empire Water Keeper and CA-NV Section of American Water Works Association
- The River Project

8 workshops held to date

- Brookfield Properties Development
- California State University of San Bernardino’s Institute for Watershed Resiliency
- California Water Environmental Association
- Chino Valley Chamber of Commerce

Received 5 additional letters of support from:

- California State University of San Bernardino’s Institute for Watershed Resiliency
- Chaffey College
- Chino Valley Chamber of Commerce
- Inland Empire Regional Economic Partnership
- Inland Empire WaterKeeper
Consultant Program Manager/Owner Engineer Solicitation

- Interviews have been completed
  - ✔ Ardurra/GHD
  - ✔ Black & Veatch/CDM
  - ✔ Jacobs
  - ✔ Parsons/Atkins
- 4-party review and interview panel March-April
- Target award date: Summer 2023
Now is the Time to Make Every Drop Count

### Budget Status

- March 2019 IEUA Board budgeted $15 M for CBP Planning and Preliminary Design Work
- August 2021 the California Water Commission awarded $8.9 M in Early Funding
- To date, the program has expended $7.9 M and received $5.8 M in Early Funding reimbursement

<table>
<thead>
<tr>
<th>Project Budget</th>
<th>Contracts</th>
<th>Expenses</th>
<th>Contract Balance</th>
<th>Projections FY 22/23</th>
<th>Remaining Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chino Basin Program Planning/PDR:</td>
<td>$15 M</td>
<td></td>
<td></td>
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<tr>
<td>Institutional agreements</td>
<td>$3.8 M</td>
<td>$2.9 M</td>
<td>$0.9 M</td>
<td>$0.3 M</td>
<td>$0.5 M</td>
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<tr>
<td>Technical Feasibility/PDR</td>
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<td>$3.0 M</td>
<td>$3.8 M</td>
<td>$2.8 M</td>
<td>$1.0 M</td>
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<td>Environmental Evaluation</td>
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<td>$0.2 M</td>
<td>$0.1 M</td>
<td>$0.1 M</td>
<td>$0.1 M</td>
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<tr>
<td>Strategy development/communication</td>
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<td>$0.5 M</td>
<td>$0.4 M</td>
<td>$0.1 M</td>
<td>$0.3 M</td>
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<tr>
<td>Other</td>
<td>$1.3 M</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$11.9 M</strong></td>
<td><strong>$7.9 M</strong></td>
<td><strong>$5.2 M</strong></td>
<td><strong>$3.3 M</strong></td>
<td><strong>$1.9 M</strong></td>
</tr>
</tbody>
</table>
Additional Grant Applications

- $43M for City of Rialto Recycled Water Interconnection
- $65M for City of Rialto Recycled Water Interconnection
- $2.8M for CBP Planning
- $1.8M for Exploratory Boreholes/Monitoring Wells
Next Steps

**Complete PDR Work (PUT):**
- AWPF
- City of Rialto RW Interconnection
- Replenishing Wells
- Permitting and Regulatory Strategy
- Updated cost estimates

**Award PM/OE Contract**

**Finalize City of Rialto RW Term Sheet**

**Term Sheet Discussions with WRCRWA**

**Summer 2023**

**Replenishing Wells Exploratory Boreholes**

**Initiate PDR Work (TAKE):**
- MWD interconnection
- Extraction Wells

**Agreement Terms Local & State Agencies:**
- CVWD | FWC
- MWD
- CDFW
- DWR
- WRCRWA

**Fall/Winter 2023**

**Final Design PUT Facilities**

**Construction of Pilot AWPF**

**Complete PDR Work (TAKE):**
- Updated cost estimates

**Finalize Agreements**

**Initiate Final Design TAKE Facilities**

**CWC Final Funding Award**

**2024- 2025**

**Construction:**
- Rialto RW Interconnection
- AWPF
- Replenishing Wells
- MWD interconnection
- Extraction Wells
- WRCRWA RW Interconnection

**2026-2030**
Discussion
WORKSHOP
ITEM

1B
Ten-Year Capital Improvement Plan
Ten-Year Sewer Capital Forecast
FY 2023/24 - FY 2032/33

Jerry Burke, P.E.
Director of Engineering
May 2023
Ten-Year Capital Improvement Plan (TYCIP)

- Comprehensive planning document that lists capital projects planned over the next 10-years
  - Administrative Services
  - Non-Reclaimable Wastewater
  - Regional Wastewater Capital Improvement
  - Regional Wastewater Operations and Maintenance
  - Groundwater Recharge
  - Recycled Water
  - Water Administration

- Agencywide effort
- Promotes transparency of Agency capital activities
Proposed TYCIP $1,386M FYs 2024-2033
Major TYCIP Projects

- Completion of RP-5 Expansion
- Advanced Water Purification
- Recycled Water Program Expansion (Replenishment Wells & External Supplies)
- RP-1 Thickening Building & Acid Phase Digester
- RP-1 Liquid Treatment Capacity Recovery
- Recycled Water Interconnection City of Rialto
- 6 Thousand Acre Feet Year AWPF
Major Capital Improvement Projects over $50 million

- List of major wastewater capital improvement projects
  - 8 out of 30 total projects
  - Over $50 million in ten-year spending

<table>
<thead>
<tr>
<th>Project Name</th>
<th>FY 23/24</th>
<th>FY 24/25</th>
<th>FY 25/26</th>
<th>FY 26/27</th>
<th>FY 27/28</th>
<th>FY 28/29</th>
<th>FY 29/30</th>
<th>FY 30/31</th>
<th>FY 31/32</th>
<th>FY 32/33</th>
<th>Total TYCIP FY 2024-2033</th>
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<tbody>
<tr>
<td>RP-1 Thickening Building &amp; Acid Phase Digester</td>
<td>$15.0</td>
<td>$35.0</td>
<td>$60.0</td>
<td>$42.0</td>
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<td>RP-5 Expansion to 30 mgd</td>
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<td>RP-1 Liquid Treatment Capacity Recovery</td>
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<td>$2.0</td>
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<td>$13.0</td>
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<td>$59.2</td>
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</table>
Ten-Year Capital Improvement Plan

RP-5 Expansion

RP-1 Thickening

Advanced Water Purification & Replenishing Facilities

RP-1 Capacity Recovery

*All values rounded to nearest million ($)

<table>
<thead>
<tr>
<th>Years</th>
<th>Project</th>
<th>23/24</th>
<th>24/25</th>
<th>25/26</th>
<th>26/27</th>
<th>27/28</th>
<th>28/29</th>
<th>29/30</th>
<th>30/31</th>
<th>31/32</th>
<th>32/33</th>
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<tr>
<td></td>
<td>RP-5 Expansion</td>
<td>$178</td>
<td>$222</td>
<td>$166</td>
<td>$149</td>
<td>$168</td>
<td>$154</td>
<td>$115</td>
<td>$83</td>
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<td>RP-1 Thickening</td>
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<td>Advanced Purification</td>
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*All values rounded to nearest million ($)
Ten-Year Forecast (TYF)

- Ensures compliance with Regional Sewage Service Ordinance 111
- Planning document
- Contains supplemental wastewater information
Wastewater Capital Spending Comparison

- Approved FY 2022/23 Ten-Year Regional Wastewater Capital Spending $544 Million
- Projected FY 2023/24 Ten-Year Regional Wastewater Capital Spending $522 Million

*FY 2023/24 wastewater capital spending is from the Projected IEUA budget
Schedule

TYCIP

IEUA Board Info (5/3/23)

Technical Committee Info (5/25/23)

Policy Committee Info (6/1/23)

IEUA Board Action (6/21/23)
Questions?
WORKSHOP
ITEM

1C
20th Anniversary of IEUA’s Regional WUE Program
<table>
<thead>
<tr>
<th>20 Years of Accomplishments</th>
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<tbody>
<tr>
<td>Collaborative partnerships</td>
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<tr>
<td>Efficient workgroups</td>
</tr>
<tr>
<td>Innovative programs</td>
</tr>
<tr>
<td>Award recognition</td>
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<tr>
<td>Effective drought response</td>
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<td>Excellent customer service</td>
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</table>
Key HistoricDrivers and Regulations

CA Urban Water Conservation Council MOU (1991)

  — Include Best Management Practices implementation
  — Required for state grants and loans eligibility

Water Conservation Act SBx7-7 (2008)
  — UWMP (2010, 2015, 2020)

New WUE Regulatory Framework
  — SB 606/AB 1668 (2018)
  — Rulemaking completed in 2023 and goes into effect in 2024
## Conservation Highlights over 20 Years

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>150K AF lifetime water savings</td>
<td></td>
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<tr>
<td>1K rain barrels</td>
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<tr>
<td>13K weather-based irrigation controllers</td>
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<td>25K clothes washers</td>
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<td>50K toilets</td>
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<td>400K sprinkler nozzles</td>
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<tr>
<td>9M square feet of turf removed</td>
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<tr>
<td>$50M total program cost (IEUA, MWD, Others)</td>
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<td>$333 total cost to save an acre-foot of water</td>
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Per Capita Water Use Declined by 38% since 2009

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<tbody>
<tr>
<td>Climate &amp; Droughts</td>
<td>Statewide Drought Emergency</td>
<td>Rainy Period</td>
<td>Dry Period</td>
<td>Statewide Drought Emergency</td>
<td>Normal Precipitation</td>
<td>Dryest Year On Record</td>
<td>Statewide Drought Emergency</td>
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<tr>
<td>ECONOMY</td>
<td>Recession</td>
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<td>COVID-19</td>
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<td>STATE LEGISLATION</td>
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<td></td>
<td>AB 1420 Best Management Practices</td>
<td></td>
<td>SB X7-7 20x2020</td>
<td>Prep for SB606 and AB1668 WUOs</td>
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<tr>
<td>IEUA AND CUSTOMER AGENCY STRATEGY</td>
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<tr>
<td>WATER USE EFFICIENCY PLANNING</td>
<td>Interim WUE Business Plan</td>
<td>2010 WUE Business Plan</td>
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<td>2015 WUE Plan</td>
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<td>WUE Plan - Phase 1</td>
<td>WUE Plan - Phase 2</td>
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</table>

- Per Capita Water Use Declined by 38% since 2009
- Climate & Droughts
- Statewide Drought Emergency
- Rainy Period
- Dry Period
- Statewide Drought Emergency
- Normal Precipitation
- Dryest Year On Record
- Statewide Drought Emergency
- ECONOMY
- Recession
- COVID-19
- STATE LEGISLATION
- AB 1420 Best Management Practices
- SB X7-7 20x2020
- Prep for SB606 and AB1668 WUOs
- IEUA AND CUSTOMER AGENCY STRATEGY
- Water Use Efficiency Active Programs
- WUE Passive Policy Initiatives
- Recycled Water Supply
- Updated Strategy Heavily Focused on Landscape and Market Transformation
- Added Utilization of Advancing Technologies and tools to promote WEU
- WATER USE EFFICIENCY PLANNING
- Interim WUE Business Plan
- 2010 WUE Business Plan
- 2015 WUE Plan
- WUE Plan - Phase 1
- WUE Plan - Phase 2
Rebates
Water Savings Incentive Program
Turf Dashboard
Outreach
MAAP Funding

City of Chino – Before and after installing soil moisture sensors and controllers at the parks

Leveraged over $30M in WUE benefits to date!
<table>
<thead>
<tr>
<th>Regional Water Saving Programs</th>
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</thead>
<tbody>
<tr>
<td><strong>Landscape Irrigation Tune-ups</strong></td>
</tr>
<tr>
<td><strong>Pressure Regulation Valves</strong></td>
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<tr>
<td><strong>Small Site Controller Retrofits</strong></td>
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<tr>
<td><strong>Residential Toilet Installs</strong></td>
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<tr>
<td><strong>Large Site Controller Retrofits</strong></td>
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<tr>
<td><strong>Freesprinklernozzles.com</strong></td>
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<tr>
<td><strong>Landscape Audit &amp; Evaluations</strong></td>
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<tr>
<td><strong>Landscape Transformations</strong></td>
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<tr>
<td>Regional Education and Support</td>
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<td>-------------------------------------------------------------------</td>
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<tr>
<td><strong>Landscape Workshops</strong></td>
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<tr>
<td><strong>K-6 School Performances</strong></td>
</tr>
<tr>
<td><strong>Garden in Every School</strong></td>
</tr>
<tr>
<td><strong>WUE Device Distributions</strong></td>
</tr>
<tr>
<td><strong>Landscape Designs</strong></td>
</tr>
<tr>
<td><strong>CA Irrigation Management Info System Maintenance</strong></td>
</tr>
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</table>
Local WUE Initiatives Examples

- Conservation Based Rates
- WUE Activity Mapping
- Water Usage App
- School Retrofits and Upgrades
- Indoor Leak Repairs
- CARES CA Friendly
- CA Native Plant Workshops
Added Enhanced Program Data Accessibility

WUE Forum

- Monthly/annual file sharing
- Multi-department access
- External resources

WUE Dashboard

- Program performance
- Data transparency
- Ongoing development
Questions?
Framework Compliance Readiness Assessment Tool

- Helps Customer Agency understand their level of readiness
- Presented in visual “snapshot” format
- Rates projected compliance level based on Current Aggregated Water Use vs Target Aggregated Water Objective
- Identifies high-level Task List required to meet Water Use Objective (WUO)
- Provides Snapshot for Each Component
WUO Performance Snapshot

Projected WUO Compliance

Projected to be Fully Compliant through 2030

Compliance Readiness Scale
- Extremely High
- High
- Moderate
- Low
- Extremely Low

Task Compliance

Partial Preparedness as of 2022

Projected WUO Compliance Date
January 1, 2024

WUO Compliance Date

WUE Performance to Date

-13%
Overall GPCD Increase
2015 = 124 GPCD
2020 = 109 GPCD

Task List

Compliance Implementation

DEDICATED IRRIGATION METERS
- Measure DIMs irrigated area
- Generate water budgets and compare against actual

CII MIXED USE METERS WITH IRRIGATION
- Identify mixed use meters with more than one acre or more of irrigated area
- Determine most technically and financially feasible path for MUMs
- Implement identified path for MUMs

CII GENERAL METERS
- Map CII accounts into 19 water-centric classifications
- Identify top 2.5% of individual CII water users
- Identify top 20% of accounts in highest water use classifications
- Implement best management practices and report activity (BMP have not been released by DWR).
CII/Dedicated Irrigation Meters WUO Compliance

Compliance Readiness Scale
- Extremely High
- High
- Moderate
- Low
- Extremely Low

2024 Compliance Readiness Level
- 80% - Measure DIMs

2025 Compliance Readiness Level
- 63% - Measure DIMs

2026 Compliance Readiness Level
- 0% - Generate Water Budgets

2027 Compliance Readiness Level

2024 Implementation Requirements Status
- 63% — Measure DIMs

2024 Compliance Performance
Target: 11 GPCD
Estimated Compliance Standard* RPU projected to be in compliance

2030 Compliance Performance
Target: 11 GPCD
Estimated Compliance Standard* RPU projected to be in compliance

Compliance Requirement Tasks
- Measure DIMs irrigated area
- Generate water budgets and compare against actual
- Report annual WUO starting in January 2024

Program Enhancement Opportunities
- Target inefficient water users for programs
- Implement large landscape optimization services for entire service area
- Maximize turf replacement incentives

*At present there are two unknowns that factor into the final compliance standard. 1. Currently RPU has not calculated a water budget for the total irrigated area of dedicated irrigation meters accounts. In order to calculate the standard, it will be necessary for RPU to include the amount of irrigated area as a component of the equation.
Compliance Readiness Scale
- Extremely High
- High
- Moderate
- Low
- Extremely Low

2024 Compliance Readiness Level
2030 Compliance Readiness Level

Water Loss Compliance (must comply with SB555)

Apparent Losses (MGY) 34.308 34.962 33.894 16.442 17.523 21.768
Real Losses (MGY) 109.015 145.472 129.802 87.656 176.685 79.506
Number of Connections 6,288 6,285 6,279 6,326 6,332 6,434
Apparent Losses (GPCD) 14.95 15.24 14.79 7.12 7.58 9.27
Real Losses (GPCD) 47.50 63.41 56.64 37.96 76.45 33.86
Amount below/above Standard (GPCD) 26 42 36 17 55 13
Percent below/above Standard 124% 200% 171% 81% 262% 62%

2021 Water Loss Audit
414 Current Real Loss (AF/yr)
72.4 Length of Mains (mi)
6,434 Number of Connections
$1,640.70 Variable Production Cost ($)
85 Avg Operating Pressure (psi)
66.8 Apparent Loss (AF/yr)

2021 Water Loss Audit
33.9 GPC*
21.0 GPC*

Water Loss Audit
414 Current Real Loss (AF/yr)
72.4 Length of Mains (mi)
6,434 Number of Connections
$1,640.70 Variable Production Cost ($)
85 Avg Operating Pressure (psi)
66.8 Apparent Loss (AF/yr)

2024 Compliance Performance
33.9 GPC* Current Leakage
21.0 GPC* Current Standard
*Gallons per Connection

38% over standard

Current Leakage vs. Standard Leakage
33.9 GPCD
21.0 GPCD

Compliance Requirement Tasks
Conduct Water Loss Audit review
Continue annual water audit & reporting
CII Mixed Use Meters with Irrigation Compliance

Compliance Readiness Scale
- Extremely High
- High
- Moderate
- Low
- Extremely Low

2024 Compliance Readiness Level
- 100% - Identify MUMs >1 acre of irrigated area
- 0% - Determine most feasible path for MUMs
- 0% - Implement solution for MUMs

2027 Compliance Performance
- No performance standard set by State

Requirement is to install DIMs or in-lieu technology for mixed use meters with 1+ acre of irrigated area

In-lieu Technologies
If in-lieu technology chosen, must implement complementary BMPs along with the technology.

The required BMPs include:
- communications
- irrigation system inspections
- repair and maintenance and proper irrigation scheduling

- Water budget-based rate structure
- Water budget-based management (no rate structure)
- Hardware improvements
- Remote sensing combined with other available information
- Other technologies meeting the burden of proof

2024 Implementation Requirements Status
- 20% by 2023
- 40% by 2024
- 60% by 2025
- 80% by 2026
- 100% by 2027

Compliance Requirement Tasks
Identify mixed use meters with more than one acre or more of irrigated area.
Determine most technically and financially feasible path for MUMs
Implement identified path for MUMs
Annually report activities and performance results
Questions?
Water-Use Efficiency 20th Celebration

Wednesday, May 3rd
IEUA's Board room at 10 a.m.
6075 Kimball Avenue, Chino, CA 91708

RSVP by Monday, May 1st to Chris Garcia
cgarca@ieua.org

Join us for a celebratory cake reception immediately following the Board meeting.

Recognition