



**AGENDA**

**WORKSHOP/MEETING  
OF THE  
BOARD OF DIRECTORS**

**WEDNESDAY, SEPTEMBER 4, 2019  
10:00 A.M.**

**INLAND EMPIRE UTILITIES AGENCY\*  
AGENCY HEADQUARTERS  
BOARD ROOM  
6075 KIMBALL AVENUE  
CHINO, CALIFORNIA 91708**

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

**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 complete and submit to the Board Secretary a "Request to Speak" form which is available on the table in the Board Room. 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.

**1. WORKSHOP**

- A. IEUA WEBSITE REDESIGN UPDATE – MR. RYDER SMITH,  
PRESIDENT/TRIPEPI SMITH & ASSOCIATES (POWERPOINT)**
- B. RP-5 EXPANSION PROJECT CONSTRUCTION COST WORKSHOP  
(POWERPOINT)**

2. **CLOSED SESSION**

A. **PURSUANT TO GOVERNMENT CODE SECTION 54954.5 – PUBLIC EMPLOYMENT**

1. Manager of Internal Audit
2. Board Secretary/Office Manager

3. **ADJOURN**

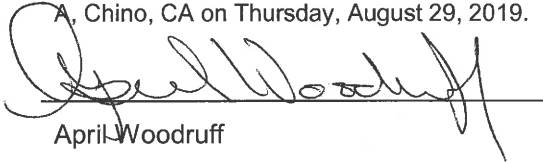
\*A Municipal Water District

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary (909) 993-1736, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

**Declaration of Posting**

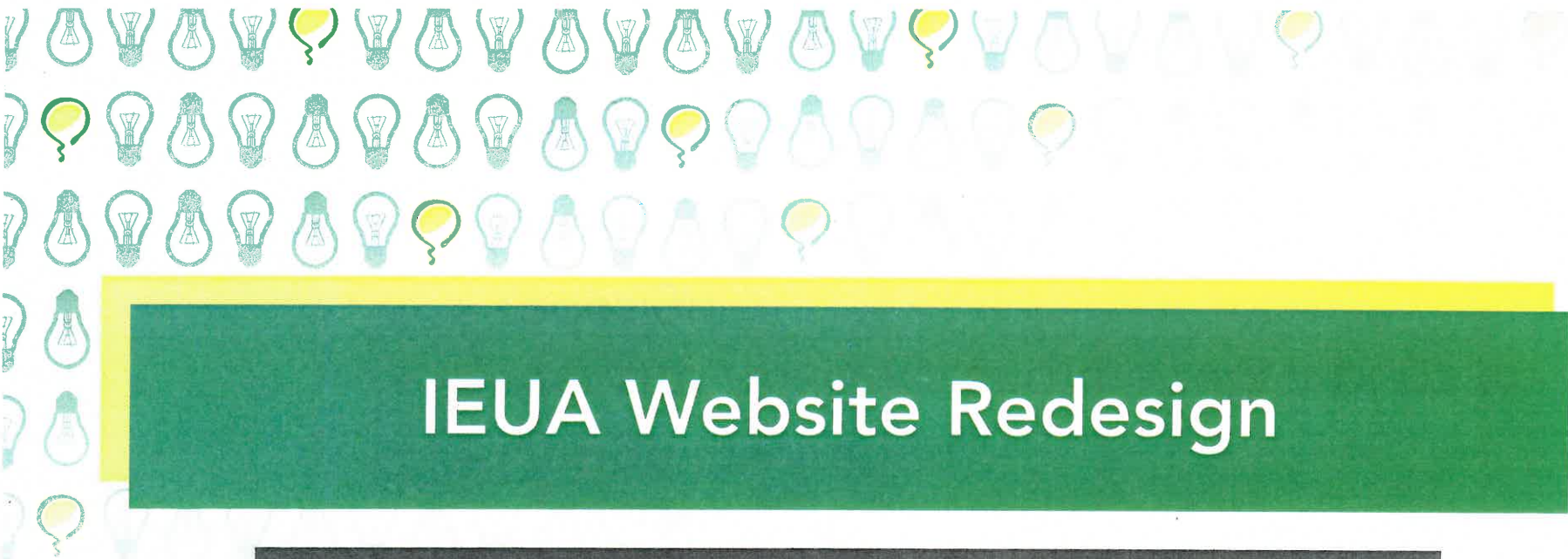
Proofed by: zh

I, April Woodruff, Board Secretary of the Inland Empire Utilities Agency\*, A Municipal Water District, hereby certify that a copy of this agenda has been posted by 5:30 p.m. at the Agency's main office, 6075 Kimball Avenue, Building A, Chino, CA on Thursday, August 29, 2019.

  
April Woodruff

# WORKSHOP

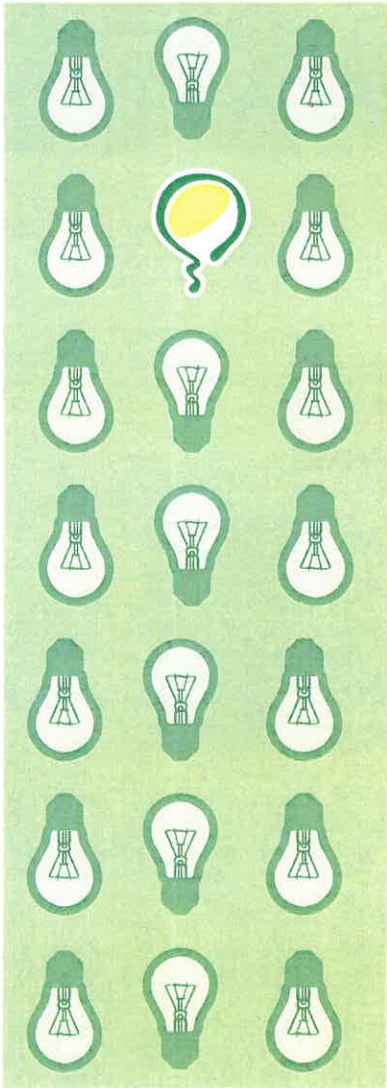
# 1A



# IEUA Website Redesign

September 2019





# Agenda

- Importance of Website transparency and ADA compliance
- Redesign Process
  - Design Inspiration
  - Website Analytics and the role it plays in redesign
- Website Redesign Mockups



TRIEPI SMITH



# Why redesign your website?

- New technology equals improved:
  - Website Transparency
  - User-friendly functionality for users
  - ADA/Section 508 Compliance



# UserWay: An ADA Compliance Tool

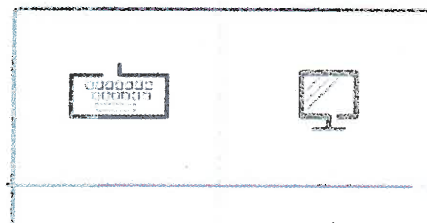
USERWAY ☰

Accessibility Menu (CTRL+U) ✕



UserWay is a pioneer in innovative website ac-  
technologies

We provide helpful **accessibility plugins** that work  
**without refactoring your website's existing code** and wi-  
increase compliance with **WCAG 2.1**, **ATAG 2.0**, **ADA**, &  
**Section 508** requirements.



- Keyboard Nav
- Cursor
- Contrast +
- Bigger Text
- Stop Animations
- Highlight Links
- Ab  
Legible Fonts
- Read page
- Tooltips
- Page Structure
- Reset All





# Redesign Process

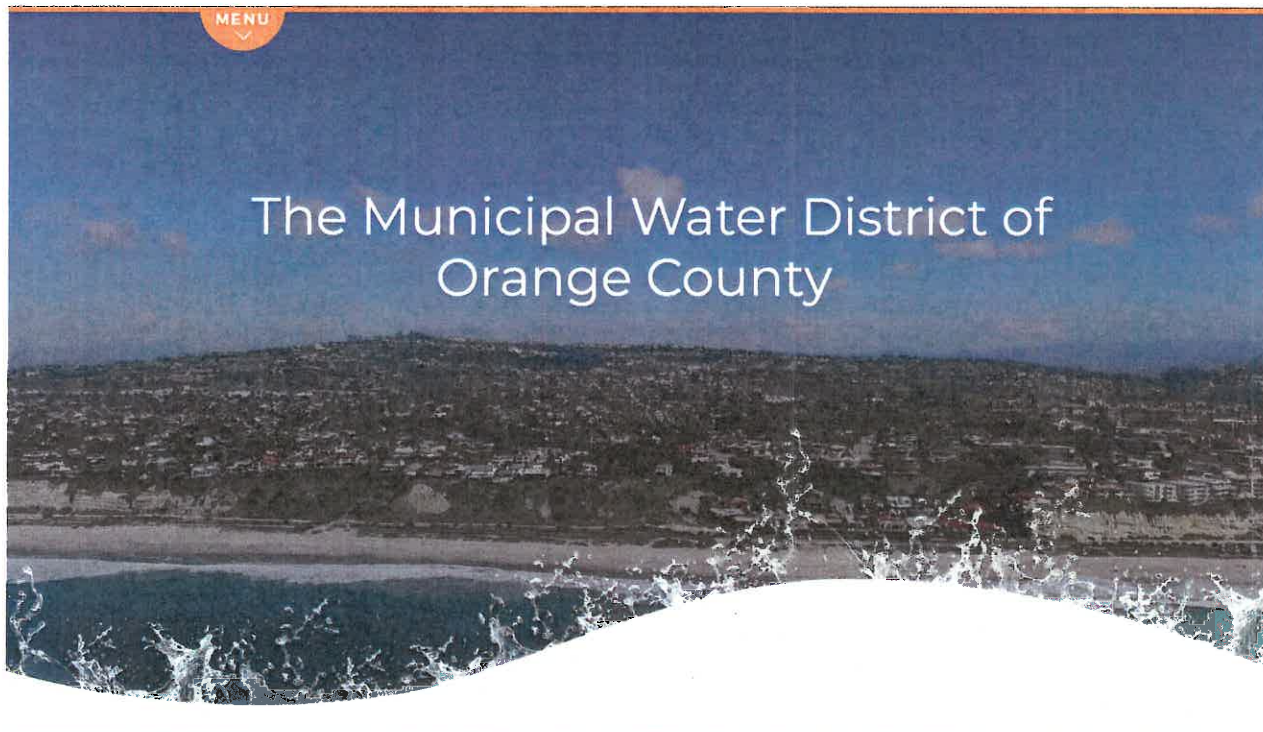
- Website projects are broken down into 5 Steps:
  - Website Specification Document
  - Design of Website
  - Coding of Website
  - Content Migration & Training
  - Quality Assurance Testing & Launch





# Design Starting Point & Inspiration

## The Municipal Water District of Orange County (MWDOC)



### Likes:

- Minimalistic pop out menu
- Full-width modern design and layout
- Large slider area with video
- Use of striking imagery and water related graphics
- Good contrast of colors



TRIPEPI SMITH

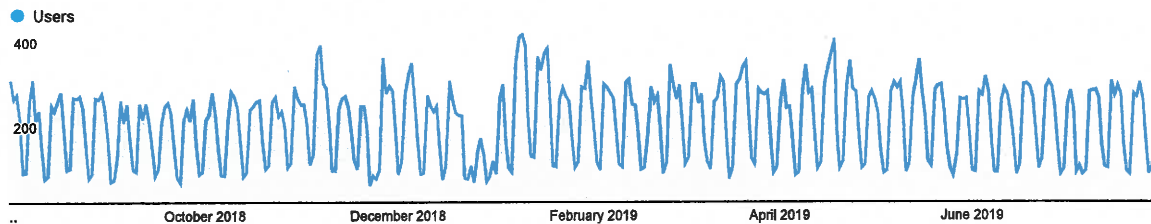
# Website Analytics and Design

## Audience Overview

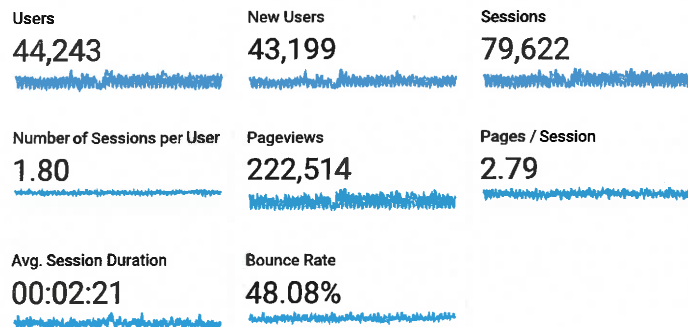
All Users  
100.00% Users

Jul 31, 2018 - Jul 31, 2019

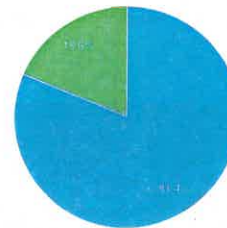
### Overview



Google Analytics showed the following metrics regarding traffic on the existing IEUA website over the past year.



■ New Visitor ■ Returning Visitor



TRIPEPI SMITH

# Website Analytics and Design

July 31, 2018 – July 31, 2019

Page	Pageviews	Unique Pageviews	Avg. Time on Page	Entrances	Bounce Rate	% Exit	Page Value
	<b>222,514</b> % of Total: 100.00% (222,514)	<b>173,809</b> % of Total: 100.00% (173,809)	<b>00:01:19</b> Avg for View: 00:01:19 (0.00%)	<b>79,621</b> % of Total: 100.00% (79,621)	<b>48.08%</b> Avg for View: 48.08% (0.00%)	<b>35.78%</b> Avg for View: 35.78% (0.00%)	<b>\$0.00</b> % of Total: 0.00% (\$0.00)
1. /	<b>43,607</b> (19.60%)	35,163 (20.23%)	00:00:57	33,230 (41.74%)	29.21%	28.72%	\$0.00 (0.00%)
2. /employment-opportunities/	<b>15,868</b> (7.13%)	13,128 (7.55%)	00:01:52	6,999 (8.79%)	69.20%	67.90%	\$0.00 (0.00%)
3. /about-us/human-resources/mous-and-salary-schedules/	<b>8,527</b> (3.83%)	5,205 (2.99%)	00:02:46	2,490 (3.13%)	62.57%	47.06%	\$0.00 (0.00%)
4. /facilities/chino-creek-wetlands-educational-park/	<b>7,558</b> (3.40%)	5,719 (3.29%)	00:01:42	5,160 (6.48%)	59.46%	57.03%	\$0.00 (0.00%)
5. /about-us/contact-us/	<b>6,893</b> (3.10%)	6,025 (3.47%)	00:02:28	1,896 (2.38%)	75.74%	62.61%	\$0.00 (0.00%)
6. /about-us/human-resources/	<b>6,305</b> (2.83%)	5,385 (3.10%)	00:00:39	1,100 (1.38%)	30.18%	16.15%	\$0.00 (0.00%)
7. /home/job-seeker/	<b>6,272</b> (2.82%)	5,391 (3.10%)	00:00:42	769 (0.97%)	38.23%	16.57%	\$0.00 (0.00%)
8. /governance/board-of-directors/	<b>3,913</b> (1.76%)	3,322 (1.91%)	00:01:42	1,197 (1.50%)	68.50%	46.61%	\$0.00 (0.00%)
9. /category/agendas/	<b>3,506</b> (1.58%)	2,284 (1.31%)	00:00:17	289 (0.36%)	24.22%	6.16%	\$0.00 (0.00%)
10. /about-us/	<b>3,128</b> (1.41%)	2,695 (1.55%)	00:02:14	883 (1.11%)	56.06%	44.79%	\$0.00 (0.00%)

Google Analytics showed that these pages were the top ten visited pages on the IEUA website over a year.

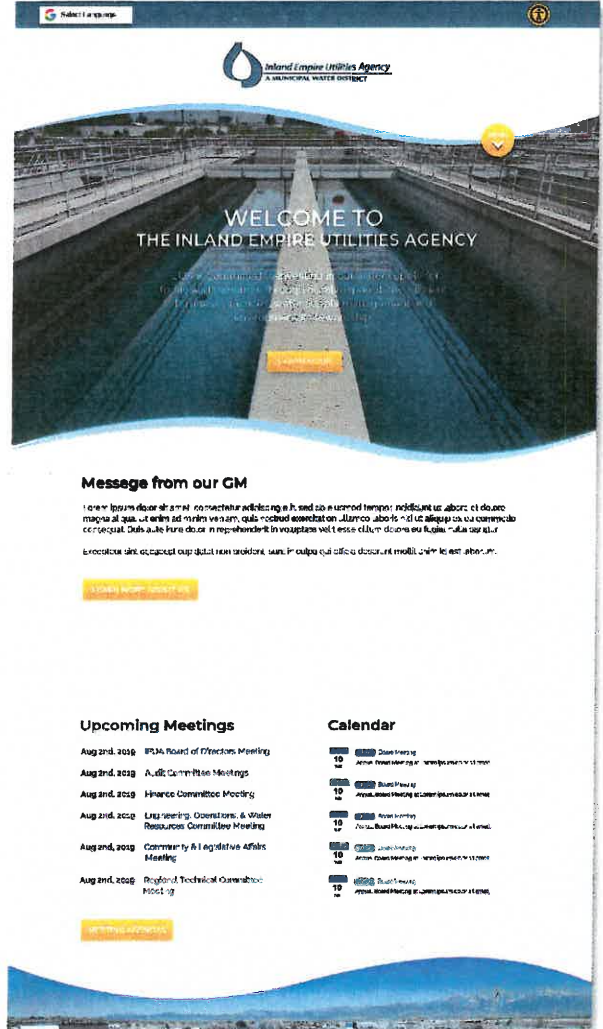


TRIPEPI SMITH



# IEUA Redesign Mockups

Homepage Option 1:  
White header with use of more lighter tones throughout design with gold color accents.



### Upcoming Meetings

- Aug 2nd, 2019 IEUA Board of Directors Meeting
- Aug 2nd, 2019 Audit Committee Meetings
- Aug 2nd, 2019 Finance Committee Meeting
- Aug 2nd, 2019 Improving Operations & Water Resources Committee Meeting
- Aug 2nd, 2019 Community & Legislative Affairs Meeting
- Aug 2nd, 2019 Regional Technical Committee Meeting

### Calendar

- 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
- Calendar grid showing dates and events.

### IEUA News



Local High School Teams Receive Top Honors at Metropitan Water District's Annual Solar Cup™ Competition

IEUA Celebrates July as Smart Irrigation Month by Offering Free Hose Nozzles and Water-Saving Kits for Residents

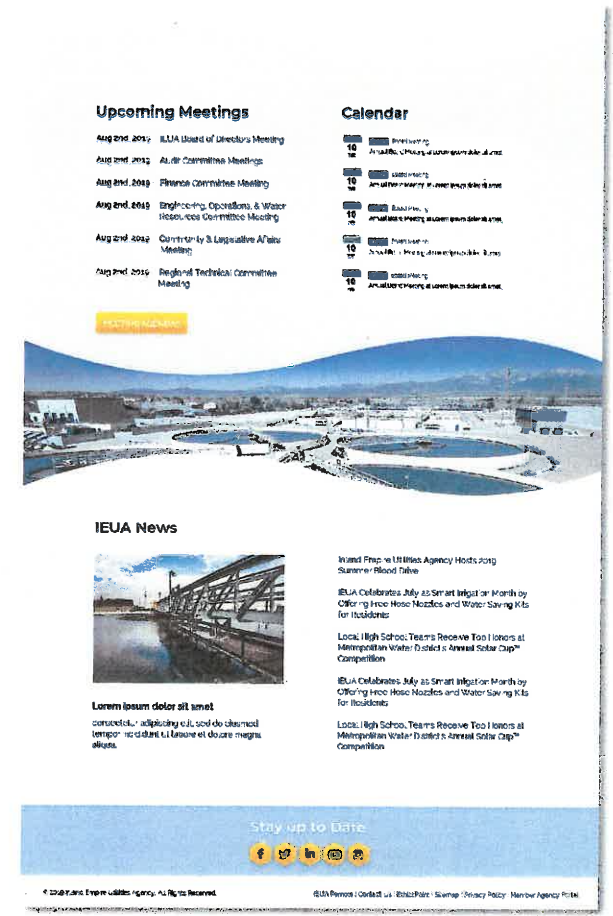
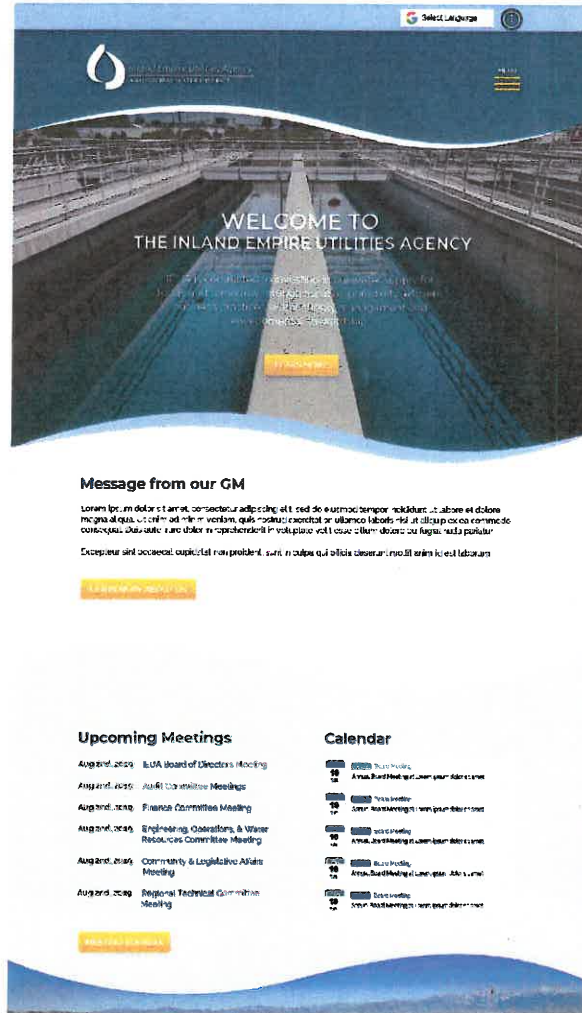
Local High School Teams Receive Top Honors at Metropitan Water District's Annual Solar Cup™ Competition

### Stay up to Date



# IEUA Redesign Mockups

Homepage Option 2:  
Darker header with use of more blue tones throughout design with gold accent color.



### Upcoming Meetings

- August 2019 IEUA Board of Directors Meeting
- August 2019 At-Large Committee Meetings
- August 2019 Finance Committee Meeting
- August 2019 Engineering, Operations & Water Resources Committee Meeting
- August 2019 Community & Legislative Affairs Meeting
- August 2019 Regional Technical Committee Meeting

### Calendar

- August 10 10:00 AM - 11:00 AM Board of Directors Meeting
- August 10 11:00 AM - 12:00 PM At-Large Committee Meetings
- August 10 12:00 PM - 1:00 PM Finance Committee Meeting
- August 10 1:00 PM - 2:00 PM Engineering, Operations & Water Resources Committee Meeting
- August 10 2:00 PM - 3:00 PM Community & Legislative Affairs Meeting
- August 10 3:00 PM - 4:00 PM Regional Technical Committee Meeting

### IEUA News



**Local High School Teams Receive Top Honors at Metropolitan Water District's Annual Solar Cup® Competition**

Local High School Teams Receive Top Honors at Metropolitan Water District's Annual Solar Cup® Competition

**IEUA Collaborates July 20 Smart Irrigation Month by Offering Free Hose Nozzles and Water Saving Kits for Residents**

IEUA Collaborates July 20 Smart Irrigation Month by Offering Free Hose Nozzles and Water Saving Kits for Residents

Stay up to Date





## IEUA Redesign Mockups

### Homepage Hero Image Video:

This is demo of what type of media can be shown on the slider area of the homepage to create a dynamic look and feel on the website.



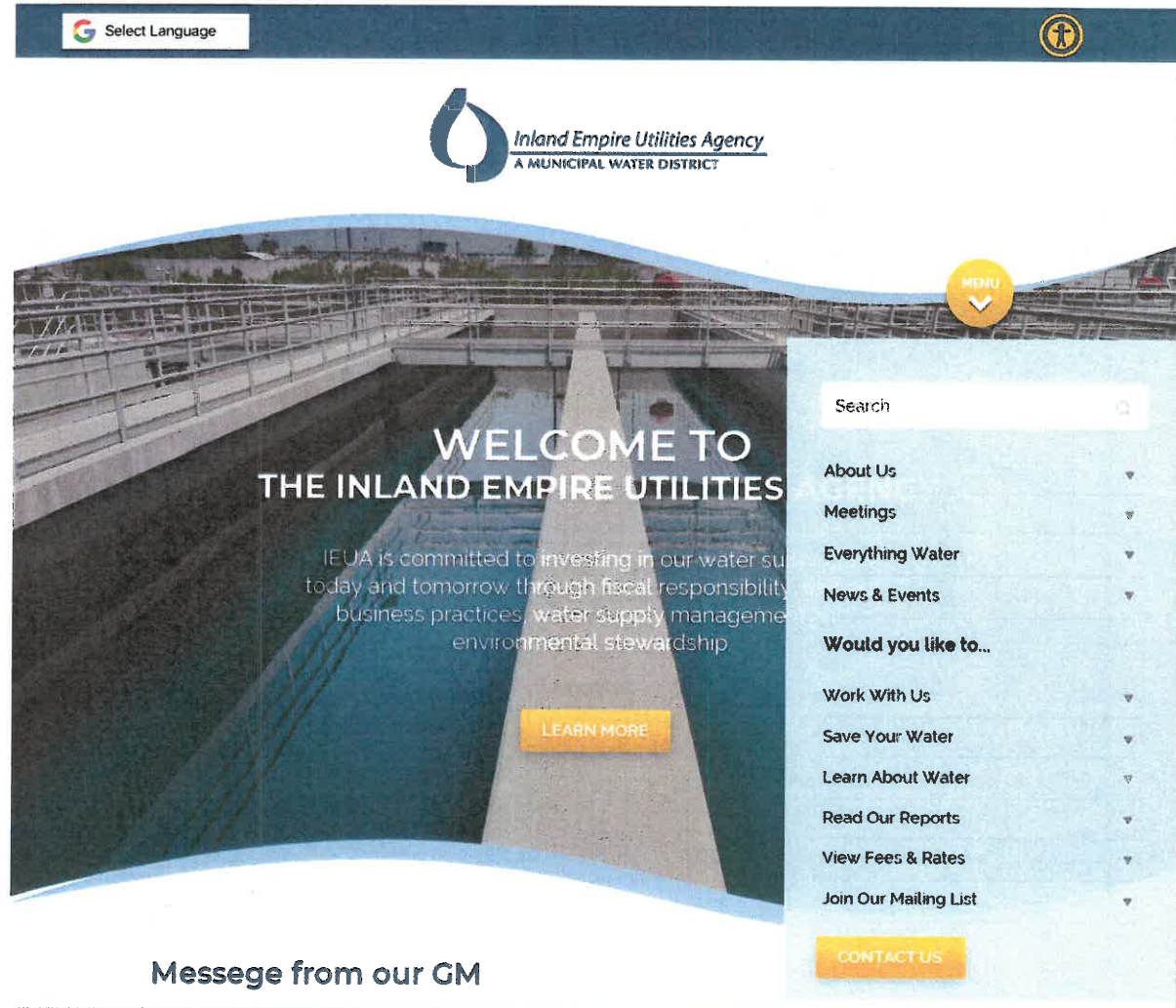




# IEUA Redesign Mockups

## Homepage Menu Structure:

Simple dropdown with multiple options to navigate content. Improved search bar located at top of menu to improve user-friendly navigation



# IEUA Redesign Mockups

Board Meetings & Agendas page:  
 Revised and organized Board Meeting and Agenda page that has all information in a single location.

**Board Meetings & Agendas**

Board Meetings are held at 9 a.m., the first and third Wednesday of the month. Board Committee Meetings are held beginning at 9 a.m., the second Wednesday of the month. See our calendar for upcoming dates.

**Current/Upcoming Meetings**

Board Meeting	Agenda	Board Packet
September 4, 2019 - Board of Directors Meeting	PDF	PDF

**Past Meetings**

2019	2018	2017	2016	2015
<b>Board Meeting</b>	<b>Agenda</b>	<b>Board Packet</b>	<b>Minutes</b>	<b>Video</b>
August 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
August 3, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
July 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
July 1, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
June 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
June 1, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
May 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
April 30, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
April 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
April 1, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
March 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
March 1, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
February 28, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
February 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
February 1, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
January 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
January 3, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video

Stay Up to Date

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July 1, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
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June 1, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
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March 1, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
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February 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
February 1, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
January 15, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video
January 3, 2019 - Board of Directors Meeting	PDF	PDF	PDF	Video

Stay Up to Date

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Questions?

Thank you.



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# WORKSHOP

# 1B



# RP-5 Expansion Project Construction Cost Workshop

Project Nos. EN19001/EN19006



Shaun J. Stone, P.E.  
September 2019

# RP-5 Expansion Design

The commitment...



- ~12,000 staff hours spent to right-size project during design.
- Objective was to contain cost and create long term functionality, operability, and maintainability at RP-5.



# Construction Costs

## What's in there?

Item	Construction Cost
Liquids Treatment Facilities	\$97,321,000
Solids Treatment Facilities	\$98,577,000
Common to Both Liquids & Solids	\$82,018,000
Offsite Facilities	\$3,929,000
<b>RP-5 Expansion Total Cost:</b>	<b>\$281,845,000</b>

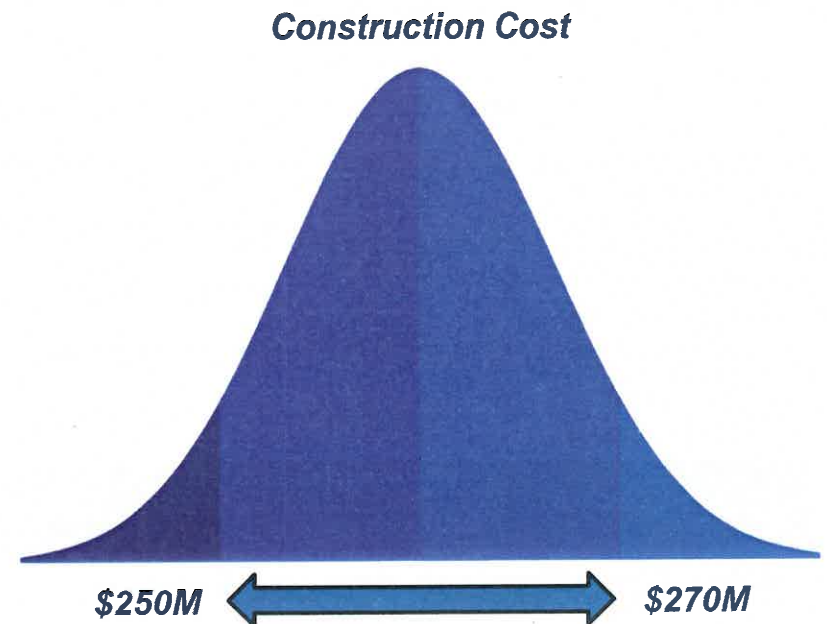
- Indirect Costs (\$23.0M)
  - General Conditions(Mobilization, field offices and support, common use equipment, supervision, home office expense, insurance and bonds)
- Direct Costs (\$210.8M)
  - Equipment, material, labor, taxes, contractor markups
- Allowances (\$37.1M)
  - Design/Estimating contingencies: 5%
- Overtime (\$6.6M)
  - Based on 25% of estimated manhours performed at an overtime rate of 1.5 times the standard labor rate
- Incentive to Attract/Keep Labor Force (\$4.4M)
  - Based on the expectation that several large projects of similar scope being advertised and constructed within the same time frame as this project, a premium of 7.5 percent of entire labor cost, including overtime, has been applied.

# Project Budget

Description	Target Budget (2015)	Current Budget (2019)
	Estimated Cost	Estimated Cost
<b>Design Services</b>	<b>\$26,063,680</b>	<b>\$26,063,680</b>
Consultant Design Contract	\$19,068,704	\$19,068,704
Other Design Services (3%)	\$6,994,976	\$6,994,976
<b>Construction Services</b>	<b>\$24,210,000</b>	<b>\$24,210,000</b>
Engineering Services During Construction (3%)	\$8,070,000	\$8,070,000
Other Construction Services (6%)	\$16,140,000	\$16,140,000
<b>Construction</b>	<b>\$269,000,000</b>	<b>\$309,845,000</b>
Construction (estimate)	\$245,000,000	\$281,845,000
Contingency (~10%)	\$24,000,000	\$28,000,000
<b>Total Project Cost:</b>	<b>\$319,273,680</b>	<b>\$360,118,680</b>
<b>Total Project Budget:</b>	<b>\$325,000,000</b>	<b>\$340,000,000</b>

# 90% Construction Cost Estimate

- 90% Construction Cost Estimate is Based on Best Available Information
- Probable Bid Range is \$250M-\$270M (Based on Discussions with Construction Managers and Contractors)
- Probable Required Project Budget is \$325M-\$350M



# Value Engineering

## What we looked at...

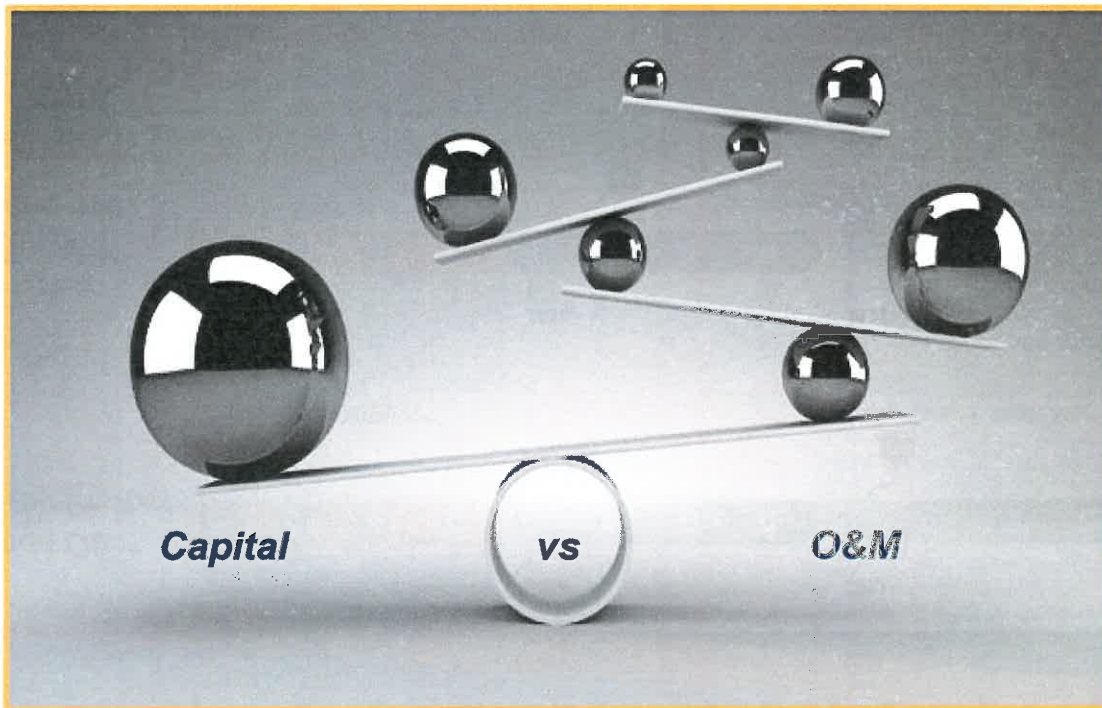
Value Engineering Options have been evaluated to potentially reduce construction cost:

Value Engineering Option	Construction Cost Savings	Design Cost	Design Time Impact	Impact to O&M
Remove Digester and Boiler Buildings	\$2,650,000	\$397,000	4 months	Reduced Life of Equipment
Remove Full Covers on Primary Clarifiers	\$1,700,000	\$255,000	3 months	Needs Approval by IEUA and AQMD
Remove Rotary Drum Thickener Building	\$1,268,000	\$190,000	4 months	Reduced Life of Equipment
Allow Higher Flux for MBR Membranes	\$1,200,000	\$180,000	2 months	Reduced Life of Membranes; Higher Energy
Remove Chlorine Contact Basin Covers	\$806,000	\$121,000	Minimal	Increased Chemical Usage
Remove Methanol System	\$700,000	\$105,000	1 month	Minimal
9 Other Options (\$25k - \$700k)	\$2,739,000	\$411,000	3 months avg.	Varies
<b>Total of All Value Engineering</b>	<b>\$11,063,000</b>	<b>\$1,659,000</b>		
<b>Total Project Savings:</b>		<b>\$9,404,000 with 5 months of delay</b>		



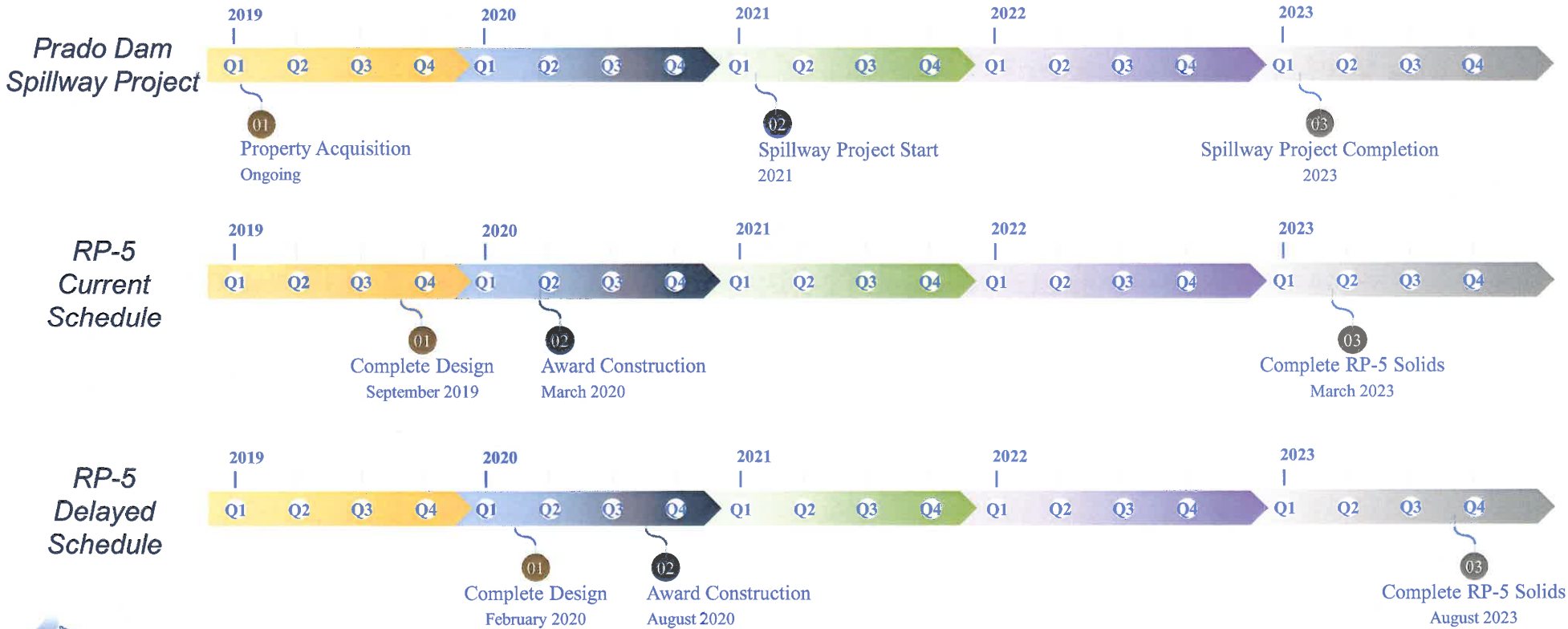
# Value Engineering

## Correctly Balancing the Project ...



- Completing all value engineering options would reduce the maximum estimated project budget from \$360M to \$350M (~3%)
- Most value engineering options are not recommended due to impacts to compliance, long-term maintainability, and project schedule
- Project is correctly balanced between CapEx and OpEx

# Risk in Delaying Project





# Discussion

- Staff Recommendation
  - No modification to design.
  - Wait for bidding results to adjust budget, if necessary.

The RP-5 Liquids Treatment Expansion Project is consistent with **IEUA's Business Goal of Wastewater Management** specifically the Water Quality objective that IEUA will ensure that systems are planned, constructed, and managed to protect public health, the environment, and meet anticipated regulatory requirements.