UCDAVIS
Center for Water-Energy Efficiency

2018-19 Research Highlights

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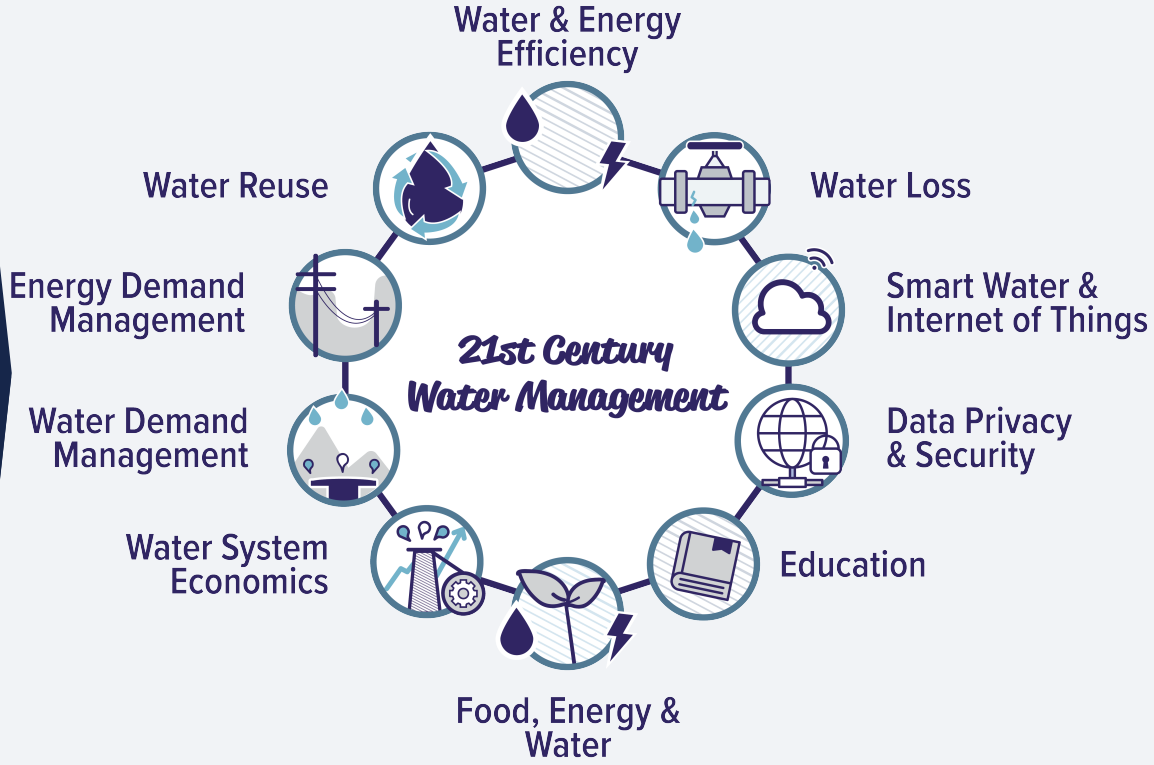
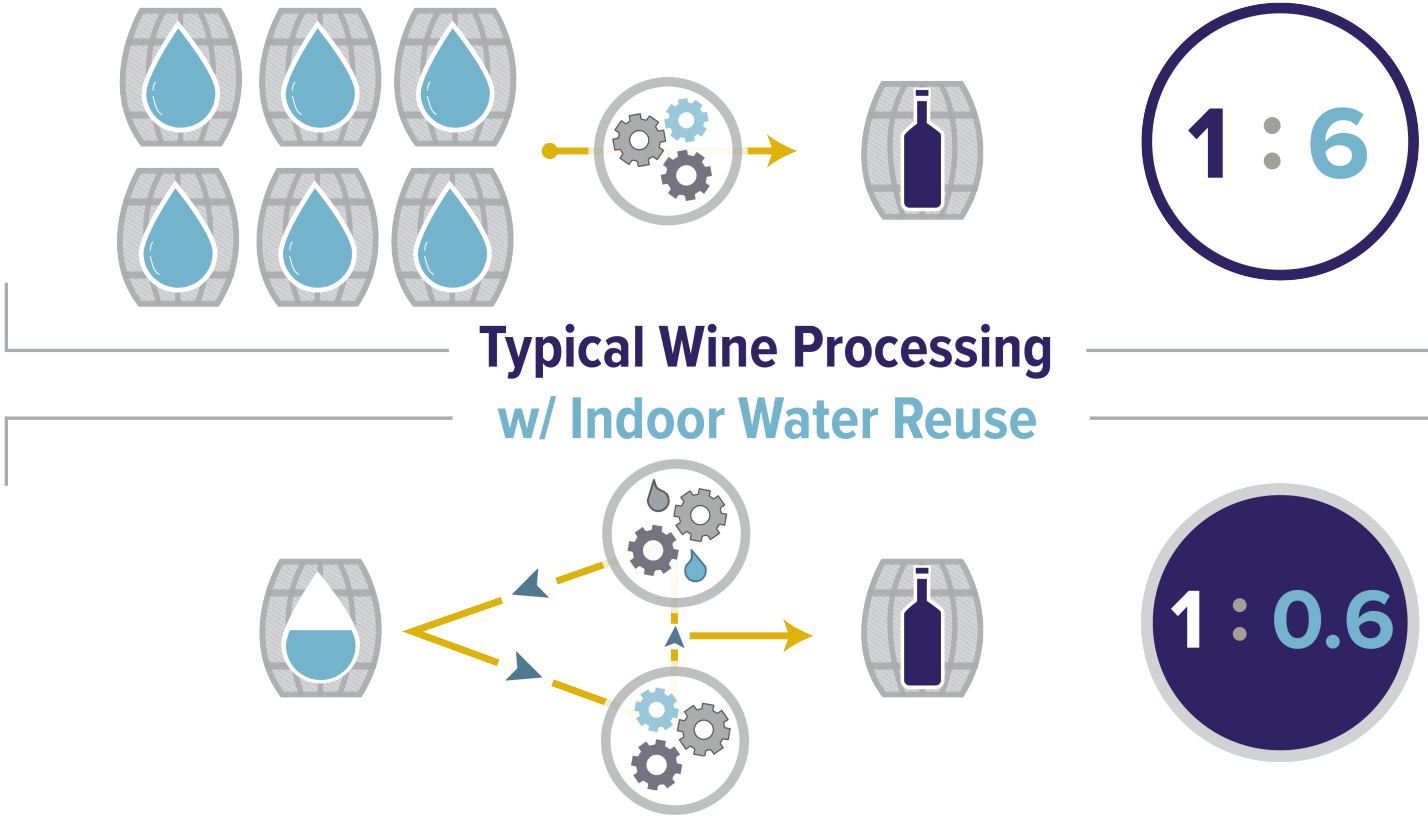
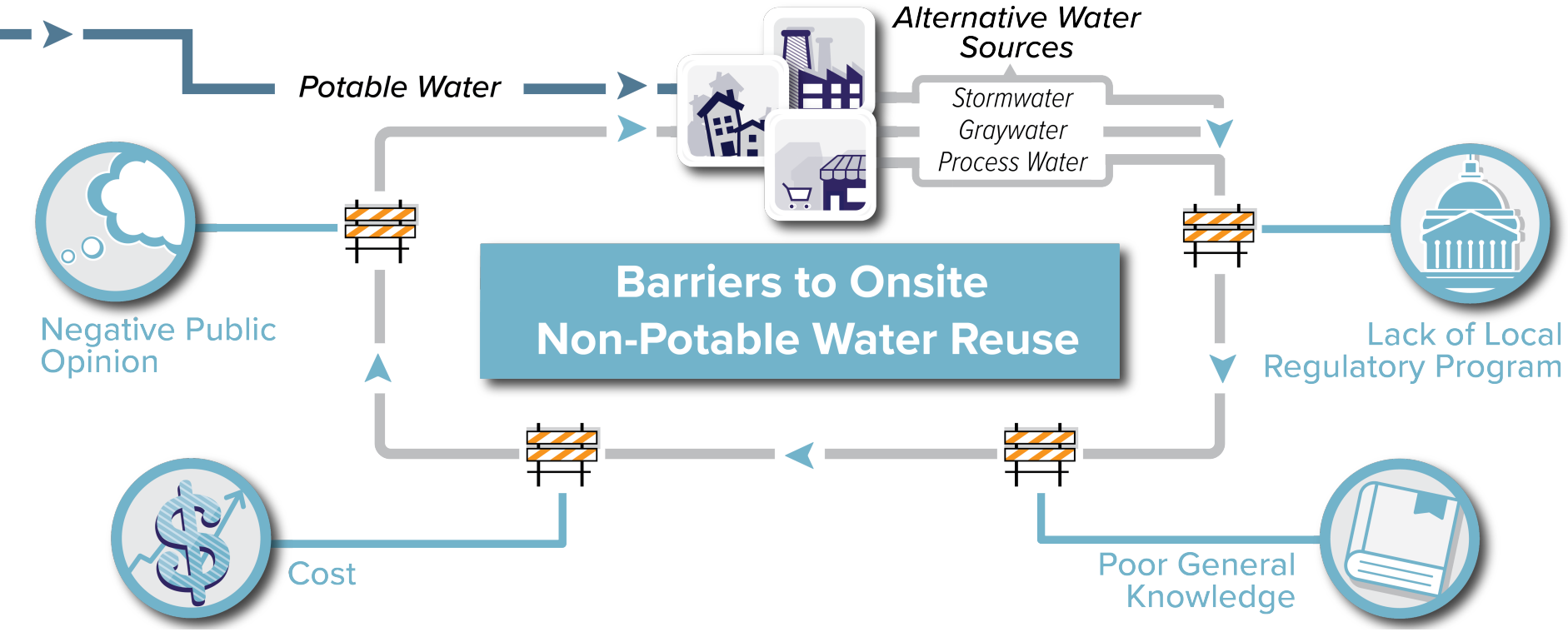
Advance water management solutions for the integrated savings of water & energy resources

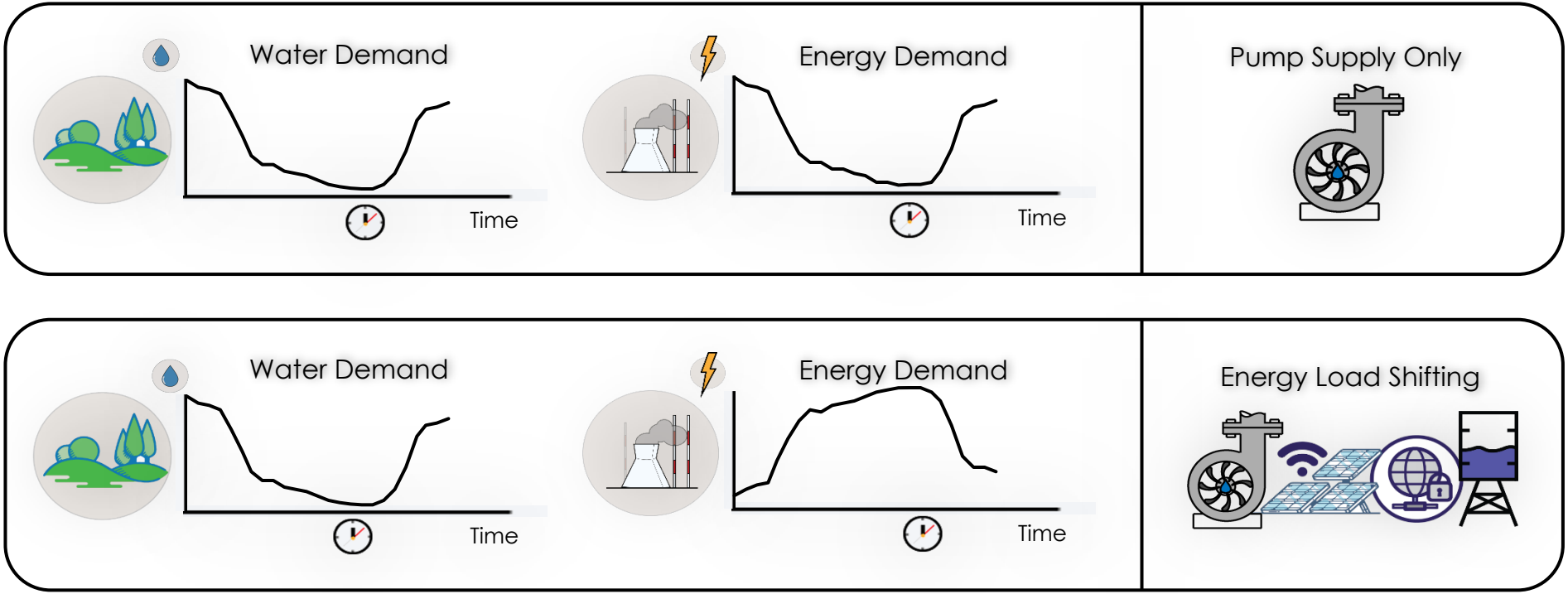


Introduction to CWEE

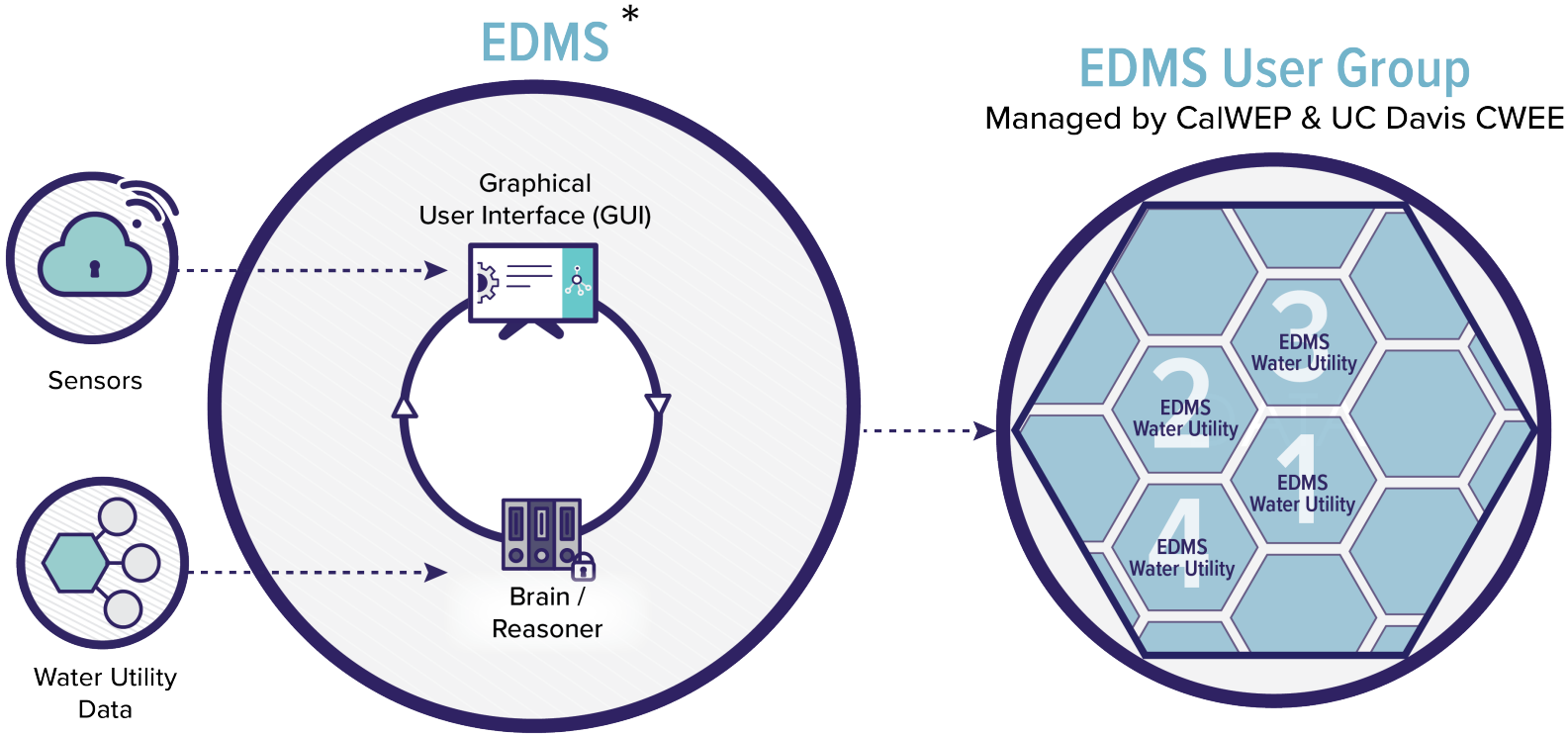


Wine Industry Water Reuse: Potential


Potable Water
Alternative Water Sources
Stormwater
Graywater
Process Water
Barriers to Onsite Non-Potable Water Reuse
Negative Public Opinion
Lack of Local Regulatory Program
Cost
Poor General Knowledge



Load Shifting in the Water Sector: Potential

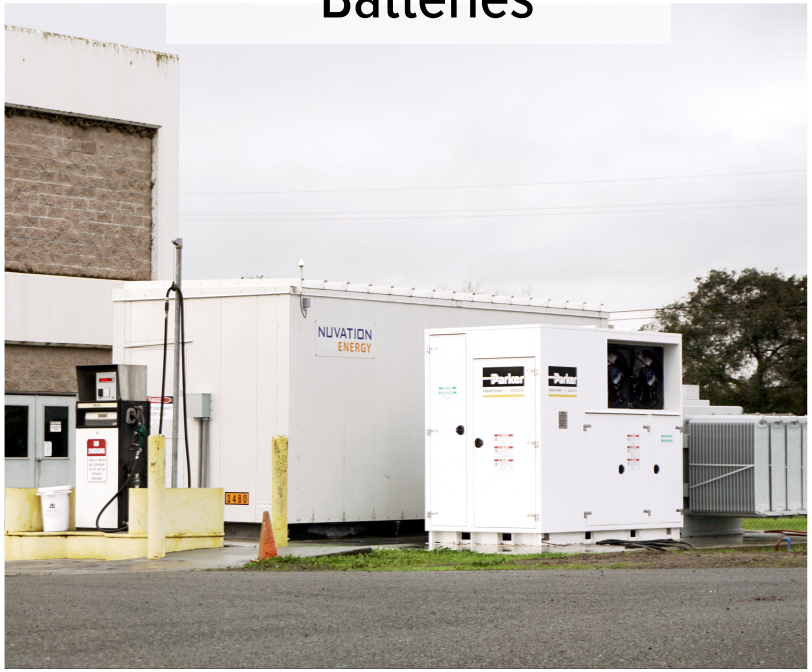


Load Shifting in the Water Sector: Implementation

Load Shifting in the Wastewater Sector: Microgrid Potential

Flow Equalization Basins

Batteries



Combined Heat & Power

Load Shifting in the Wastewater Sector: Optimizing Operations

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[Considering] the interdependent nature of water, energy, and food systems is critical to achieving long-term economic, environmental, and social goals.

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Tecnológico de Monterrey

Collaboration in Mexico

Webinars

- "Reducing Electricity Grid Imbalances through Energy Demand Management of Water Delivery Infrastructure"
- "Overcoming the Barriers to Onsite Non-Potable Water Reuse in California"
- "Energy Demand Management Systems for Potable Water Systems: A Case Study"

Workshop Topics

- Developing a Common Methodology for Evaluating Energy Intensity in Water Systems
- The Future of Water-Energy Programs and Rebates (Partnerships)
- Energy Demand Management in the Water Sector

Affiliates Program Benefits

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Thank you