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WATER ENERGY **NEXUS** **REGISTRY**

Water-Energy Nexus Registry Briefing **California Water Commission**

Wednesday February 20, 2019





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WATER ENERGY NEXUS REGISTRY

Born out of California's SB 1425, Pavley

A voluntary GHG reporting program to:
Build capacity for calculating carbon footprints in the water sector

Document entity-wide emissions baselines and reductions over time

Support consistent communication of GHG intensity of delivered water

Promote achievement of GHG emissions reductions



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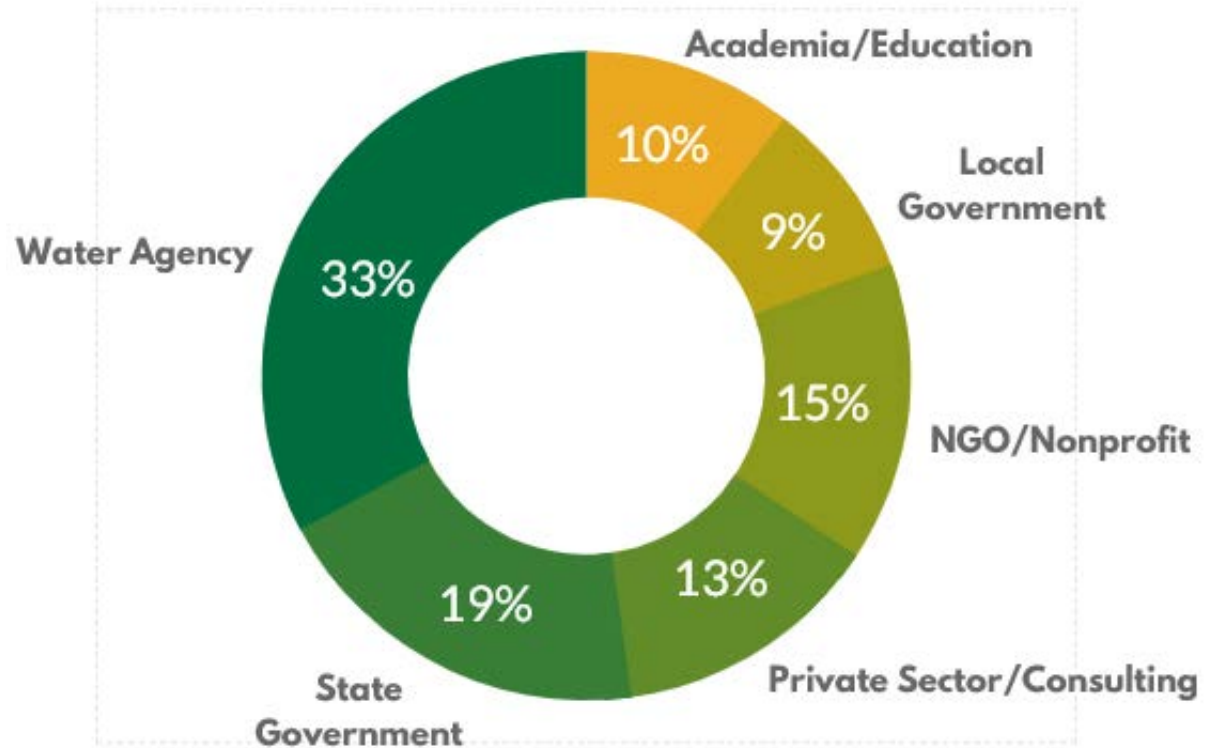
Program Implementation

- GHG and water data reporting guidance
- Custom-build reporting tool
- Recognition program
- Trainings
- Help-desk



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Stakeholder Representation





Working Group

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Working Group

California Association of Sanitation Agencies	Irvine Ranch Water District
California Council of Land Trusts	Los Angeles Department of Water and Power
California Department of Water Resources	Metropolitan Water District of Southern California
California Water Efficiency Partnership	Regional Water Authority
Center for Sustainable Cities, University of Southern California	San Diego County Water Authority
Center for Water-Energy Efficiency, University of California, Davis	Santa Margarita Water District
City of Los Angeles / LA Sanitation	Sonoma County Water Agency
City of Sacramento Department of Utilities	South Orange County Wastewater Authority
Cucamonga Valley Water District	State Water Resources Control Board
ENGIE Services	Water Systems Optimization
ESI	West Basin Municipal Water District
GHD	



Advisory Committee

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Advisory Committee

Association of California Water Agencies	Monterey Bay Aquarium
California Data Collaborative	Office of Water Programs, California State University, Sacramento
California Department of Food and Agriculture	Orange County Coastkeeper
California Department of Water Resources	Pacific Institute
California Public Utilities Commission - Office of Ratepayer Advocates	Rancho California Water District
California State Water Resources Control Board	San Bernardino Valley Water Conservation District
City of San Diego Public Utilities Department	Southern California Edison
City of Upland	Southern California Water Coalition
Dept. of Civil & Env. Engineering, University of California, Davis	TerraVerde Energy
East Bay Municipal Utility District	University of California, San Diego
Energy Policy Initiatives Center, University of San Diego	University of San Diego
Environmental Defense Fund	Water Systems Optimization
Humboldt Bay Municipal Water District	WaterReuse California
Los Angeles Department of Water and Power	Zone 7 Water Agency
Minnesota Department of Natural Resources	



WEN Registry Guidance



General Reporting Protocol Modules



Water-Energy Nexus Registry Module

- Water Sector-Specific Inventory Boundaries
- Water Sector-Specific Emissions Quantification
- Reporting Supplemental Water-Related Data
- Water Sector-Specific Performance Metrics
- Water Sector-Specific Inventory Completion
- Verification in the WEN Registry



Guidance Modules

- Water-Energy Metrics
- Renewable Energy
- Etc.





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Key Issues

- Sector-specific emissions sources
- Water data
- Public disclosure
- Measuring GHG reductions
- **Performance metrics**
- **Recognition opportunities**



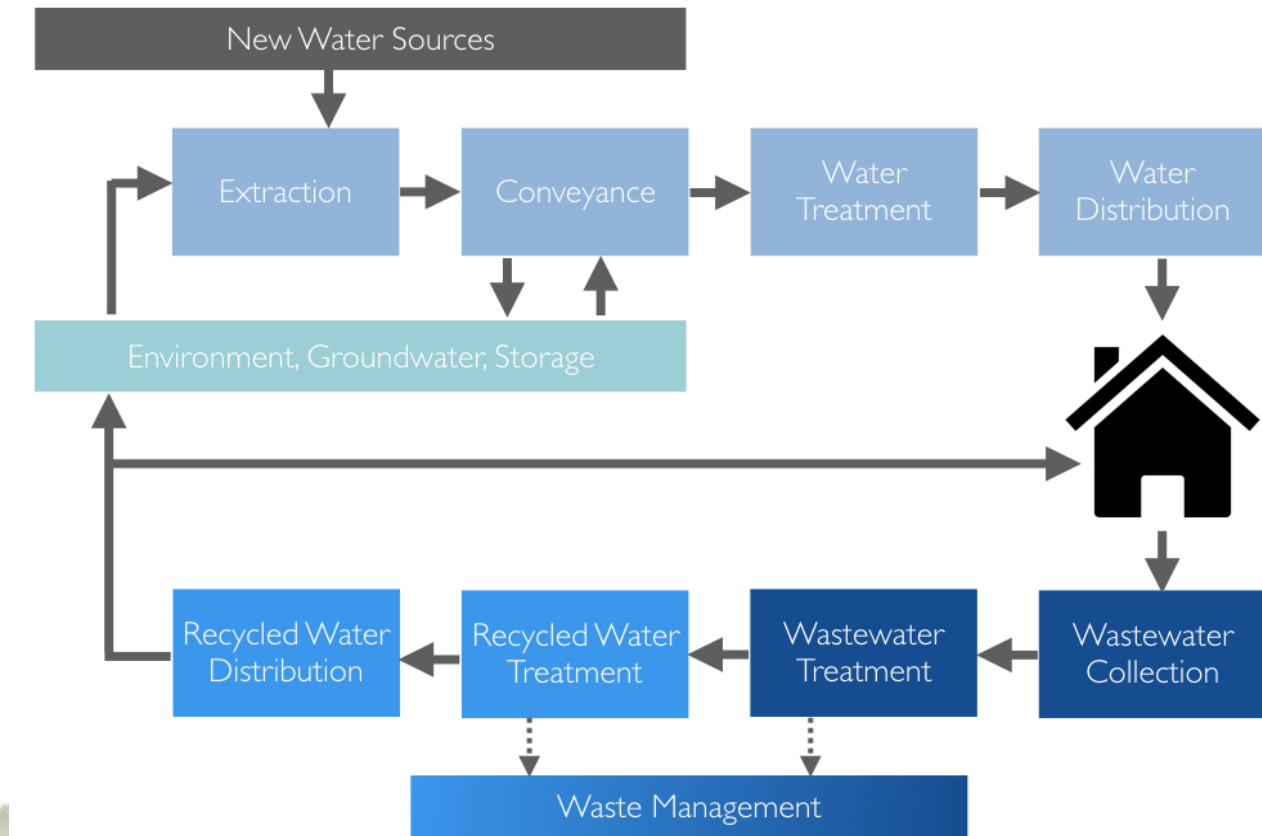
Performance Metrics

- Efficiency metrics:
 - Emissions intensity of an agency's operations by
 - process,
 - product or
 - system-wide
- Delivery metrics:
 - Total emissions embedded in water delivered to customers or treated
 - Includes emissions associated with any upstream activities



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The Water Use Cycle





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Recognition Program

- Tiered program:
 - Silver – 1 facility or business unit
 - Gold – 50% operations
 - Platinum – 75% operations
 - All Star – 95% operations
- Additional criteria:
 - Complete trainings
 - Verify inventory
 - Generate or purchase renewable energy
 - Report performance metrics
 - Track emissions against a base year
 - Set and/or achieve a GHG reduction goal



Financial Incentives

- Agencies expressed need for incentive programs to reduce emissions
- The Water Energy Nexus Registry will demonstrate capacity for water and wastewater agencies to reduce emissions
- New programs and policy updates may also be needed:
 - Updating state funding and grant requirements
 - Providing access to GHGRF funding
 - Creating new rebate programs from power utilities



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Key Resources

- [TCR's Water-Energy Nexus Registry page](#)
 - Program overview
 - FAQs
 - Draft of WEN Registry Protocol
 - Feedback form
 - Technical support documents
- [SB 1425 – Chaptered Text of Bill](#)



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Public Comment Period

- Feb. 5 – Mar. 5

Visit the [Water Energy Nexus Registry Protocol webpage](#) for:

- Program overview
- FAQs
- Draft of WEN Registry Protocol
- Feedback form
- Technical support documents





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Thank You

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