Water Reuse for the Future
Water 101 Academy Ambassador Program
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What is Recycled Water?

- Water treated from sources which contain domestic waste.
Existing NPR Distribution Systems in the County

- Palo Alto / Mountain View Recycled Water System
- Sunnyvale Recycled Water System
- Silicon Valley Advanced Water Purification Center
- South Bay Water Recycling
- South County Recycled Water System
<table>
<thead>
<tr>
<th>Facility</th>
<th>Avg. Wastewater Treated (AF)</th>
<th>CY 2018 Recycled Water (AF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>San José/Santa Clara Regional Wastewater Facility</td>
<td>110,000</td>
<td>12,490 (11%)</td>
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<tr>
<td>Palo Alto Regional Water Quality Control Plant</td>
<td>30,000</td>
<td>2,478 (8%)</td>
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<tr>
<td>Sunnyvale Water Pollution Control Plant</td>
<td>19,000</td>
<td>803 (4%)</td>
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<tr>
<td>South County Regional Wastewater Authority</td>
<td>8,000</td>
<td>1,996 (25%)</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>167,000</strong></td>
<td><strong>17,767 (11%)</strong></td>
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Wastewater Avg. vs Recycled Water Use (CY 2018)
Recycled and Purified Water Goals

- **Calendar Year**
  - 1995
  - 2005
  - 2015
  - 2028
  - 2035

- **Recycled Water Use** (acre-ft/year)
  - 10,000
  - 20,000
  - 30,000
  - 40,000
  - 50,000
  - 60,000
  - 70,000
  - 80,000

- **Potable Reuse (PR)**
  - Up to 45,000 AFY PR by 2035
  - Board Drought Response Target

- **Non-Potable Recycled Water** (irrigation, industrial and dual-plumbing)
  - Up to 45,000 AFY PR by 2035

- **Draft 2017 WSMP Goal**
  - Goal E-2, >10% reuse

- **24,000 AFY of PR by 2028**

Rev. MS, 2/19/2020
Water Reuse Programs

- Silicon Valley Advanced Water Purification Center
- Reverse Osmosis Concentrate Management Program
- Research Collaborative Study Program
- Countywide Water Reuse Master Plan
Fostering Collaboration and Defining Common Goals

Executive Leadership Group
- Provide strategic input
- City Managers and Utility Execs from Partner Agencies

Project Partner Group
- Support and inform project decisions
- SBWR
- PA / MV
- Sunnyvale
- SCRWA

One-on-One Meetings
- Meet Partner Agency Executives prior to group meetings
- Build trust and buy-in

Stakeholder Task Force
- Engage outside groups
- Solicit feedback and discuss alternatives

Improving water supply reliability through water reuse for the County
Countywide Water Reuse Master Plan

Objectives:

- Identify amount available for PR and NPR and the optimal PR/NPR split
- Evaluate options for system integration
- Guide expansion via interagency agreements and governance structures
- Generate support by engaging stakeholders
Sample of Potential CWRMP Projects
Purifying water for a sustainable tomorrow

- Uses recycled water and is good for the environment
- Provides a drought-resistant supply
- Uses state-of-the-art purification processes
- Speeds up nature’s process