Southern Nevada Water Authority (SNWA)

Water Efficient Technologies Program

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The SNWA provides incentives for customers to find their own creative solutions to conserve water.
W.E.T. program

• Program is designed to encourage capital improvements that can result in saving at least 100,000 gallons per year

• Incentive of up to $50,000 per property per fiscal year (customers can phase projects across multiple fiscal years)

• Two Program Tracks:
  ▪ Menu Item – Select from a list of pre-approved technologies with assigned incentive values
  ▪ Performance-based – For custom conservation solutions (rebate contingent on performance)
Type of WET Projects

- Completed WEP Projects: 45 (23%)
- Completed WEM Projects: 150 (77%)

W.E.T. program
W.E.T. program

Expenditures per Track

- Completed WEP Projects: $786,393,23 (31%)
- Completed WEM Projects: $1,721,943.54 (69%)
W.E.T. incentive levels

- Up to $8.00 per 1,000 gallons conserved annually for non-consumptive water saving technologies (most indoor)

- Up to $25.00 per 1,000 gallons conserved annually for consumptive water saving technologies (most outdoor). We pay this premium because it actively helps to extend our supplies.
Menu-item applications

- Applicant selects from a list of pre-approved technologies available from SNWA
- List includes minimum project sizes and assigned per unit incentive values
- May combine across multiple locations for the same business to reach minimum project thresholds
- Options for new and retrofit applications for select technologies
- Easy and Fast!
  No performance period or additional research requirements
Menu Items

- High Efficiency Toilets (HETs) and Urinals (HEUs). We recommend WaterSense
- Waterless Urinals
- High efficiency showerheads (including WaterSense)
- Converting sports-field turf to artificial play surface (typically artificial turf)
- Retrofit water-cooled air conditioning to dry conventional A/C
- Retrofit standard cooling tower controllers with more sophisticated efficient models with a proven record
Menu Items

- Retrofit cooling towers with high efficiency drift-elimination technologies
- Convert older washing machines to Energy Star labeled models
- Convert washer-extractors to tunnel washers
- Use Energy Star qualified steamers and combo ovens
- Install/convert older high-capacity dishwashers to modern high-efficiency models
Customized performance-based solutions

- SNWA evaluates suitability of project and available information about savings potential
- SNWA makes a projected savings estimate
- After program acceptance and technology installation there is a six-month monitoring and evaluation period
- After six months, SNWA awards the appropriate incentive based on the performance, the corresponding incentive rate, and the purchase cost
- More appropriate for technologies that are untested or when it's difficult to estimate savings
Other requirements

• 10-year minimum life cycle (released for future improvements)

• Pre-installation inspection to qualify

• Post-installation inspection to confirm installation

• Incentive will equal the menu item value calculated amount, up to 50 percent of the product purchase price (excl. labor)

• Six month period to install after acceptance

• SNWA final authority on acceptability of a project
Popular W.E.T. applications

- High-efficiency indoor fixtures
- Artificial turf for sports surfaces
- Cooling tower improvements
- On-site water reuse systems
CR Improvements Observed

<table>
<thead>
<tr>
<th>Measure</th>
<th>Start CR</th>
<th>End CR</th>
<th>Improved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid Injection</td>
<td>2.33</td>
<td>3.91</td>
<td>1.58</td>
</tr>
<tr>
<td>Ozonation</td>
<td>2.15</td>
<td>3.17</td>
<td>1.02</td>
</tr>
<tr>
<td>Advanced Controls</td>
<td>1.85</td>
<td>3.25 – 4.5*</td>
<td>1.40</td>
</tr>
<tr>
<td>Improved Mgmt. Only</td>
<td>3.19</td>
<td>3.70</td>
<td>0.51 (at least?)</td>
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</tbody>
</table>

* Tagged Dispersal Polymer-based Control
Cooling Tower Successes

• Have raised W.E.T. program participants concentration ratios from 2.22 average to 3.45.

• This is a savings of 673,760 gallons for every 100 tons of cooling capacity.

• The average facility participant has saved 17.7 million gallons annually.

• This equates to a 45% savings in blow down water.
W.E.T. savings

GALLONS SAVED ANNUALLY

Completed WEM Projects 57%

631,510,714 Gallons

470,848,216 Gallons

Completed WEP Projects 43%
W.E.T. savings

Yields (Perpetual Gals/Yr/Rebated $)

- COMPLETED WEM PROJECTS: 367
- COMPLETED WEP PROJECTS: 599

SAVE WATER
SAVE MONEY
SOUTHERN NEVADA WATER AUTHORITY
Water Smart business solutions
W.E.T. Savings

W.E.T. Program Gallons Saved Annually

W.E.T. Savings

- Annual Yield (Savings) now at 1.44 billion gallons.
- Difficult to envision.
- What does this equate to?

And remember this is per year . . .
W.E.T. Savings

Cumulatively to Date
Questions?