Nicholas Kusanto

Wise Water Management and Reuse to Expand the Nation’s Water Supply
Current withdrawal: 410 Billion Gallons / Day
Effects of Water Use

- Water Shortages
  - Price inflation
  - Quality of life
- Aquifer Depletion
  - Increased costs to withdraw
  - Environmental decay
Opportunity

- 12 out of 32 BGD of municipal treated wastewater is ejected into the ocean
Key Conflicts

Map of US Aquifers

National Atlas of the United States
Key Conflicts

- Public approval
  - “Yuck factor”
  - “Out of sight, out of mind”
  - “Not in my backyard”

- Cost
  - $384.2 billion infrastructure repair
  - 14% of transported water lost
Policy Alternatives
Education & Outreach

- Communicate
- Educate the stewards of tomorrow
- Target K-8 schools
Behavioral Economics

- State Quotas
  - Utility Companies
- Tiered Water Rates
  - Seattle
- Tax Break Incentives

As of January 1, 2013

<table>
<thead>
<tr>
<th>Water Usage</th>
<th>Inside Seattle</th>
<th>Outside Seattle</th>
<th>Shoreline &amp; Lake Forest Park*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off-Peak Usage (Sept. 16 – May 15)</td>
<td>$4.50</td>
<td>$5.13</td>
<td>$5.46</td>
</tr>
<tr>
<td>Peak Usage (May 16 – Sept. 15)</td>
<td>$4.73</td>
<td>$5.39</td>
<td>$5.74</td>
</tr>
<tr>
<td>First-Tier: Up to 10 CCF in 60 days</td>
<td>$4.73</td>
<td>$5.39</td>
<td>$5.74</td>
</tr>
<tr>
<td>Second-Tier: Next 26 CCF in 60 days</td>
<td>$5.72</td>
<td>$6.52</td>
<td>$6.94</td>
</tr>
<tr>
<td>Third-Tier: Over 36 CCF in 60 days</td>
<td>$11.80</td>
<td>$13.45</td>
<td>$14.31</td>
</tr>
</tbody>
</table>
Water Resources Development Act 2013, S. 601

- Sponsor: Senator Barbara Boxer [D-Ca]
  - Co-Sponsor: David Vitter [R-LA]

113th Congress 1st Session

AN ACT

To provide for the conservation and development of water and related resources, to authorize the Secretary of the Army to construct various projects for improvements to rivers and harbors of the United States, and for other purposes.