DOGGR Geothermal Offices

Sacramento
El Centro
Santa Rosa
Current Geothermal Wells in California

- 452 Steam
- 269 High-temperature Water
- 321 Injection
- 210 Commercial Low-temperature
- 179 Non-commercial Low-temperature
- 66 Observation
- 104 Temperature-gradient
Sources of Electricity in CA, 2014

- Natural Gas: 44.5%
- Nuclear: 8.5%
- Geothermal: 4.5%
- Solar: 4.2%
- Wind: 8.1%
- Biomass: 2.5%
- Small Hydro: 0.9%
- Large Hydro: 5.5%
- Unspecified: 15.0%
- Coal: 6.4%
- Solar: 4.2%
- Wind: 8.1%
- Geothermal: 4.5%
- Biomass: 2.5%
- Small Hydro: 0.9%
- Nuclear: 8.5%
- Unspecified: 15.0%
Renewable Energy produced in CA in 2014

- Wind: 40%
- Biomass: 13%
- Geothermal: 22%
- Solar: 21%
- Small Hydro: 5%
Waste water pipelines
Salton Sea
## Total Dissolved Solids

(Typical Weight %)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chloride</td>
<td>15.40</td>
</tr>
<tr>
<td>Sodium</td>
<td>5.27</td>
</tr>
<tr>
<td>Calcium</td>
<td>2.65</td>
</tr>
<tr>
<td>Potassium</td>
<td>1.65</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>0.17</td>
</tr>
<tr>
<td>Iron</td>
<td>0.15</td>
</tr>
<tr>
<td>Manganese</td>
<td>0.14</td>
</tr>
<tr>
<td>Zinc</td>
<td>0.05</td>
</tr>
<tr>
<td>Silica</td>
<td>0.05</td>
</tr>
<tr>
<td>Other</td>
<td>0.16</td>
</tr>
<tr>
<td><strong>Total Dissolved Solids &amp; Gases</strong></td>
<td><strong>25.69</strong></td>
</tr>
</tbody>
</table>
Thank You!
Underground Injection Control (UIC)