

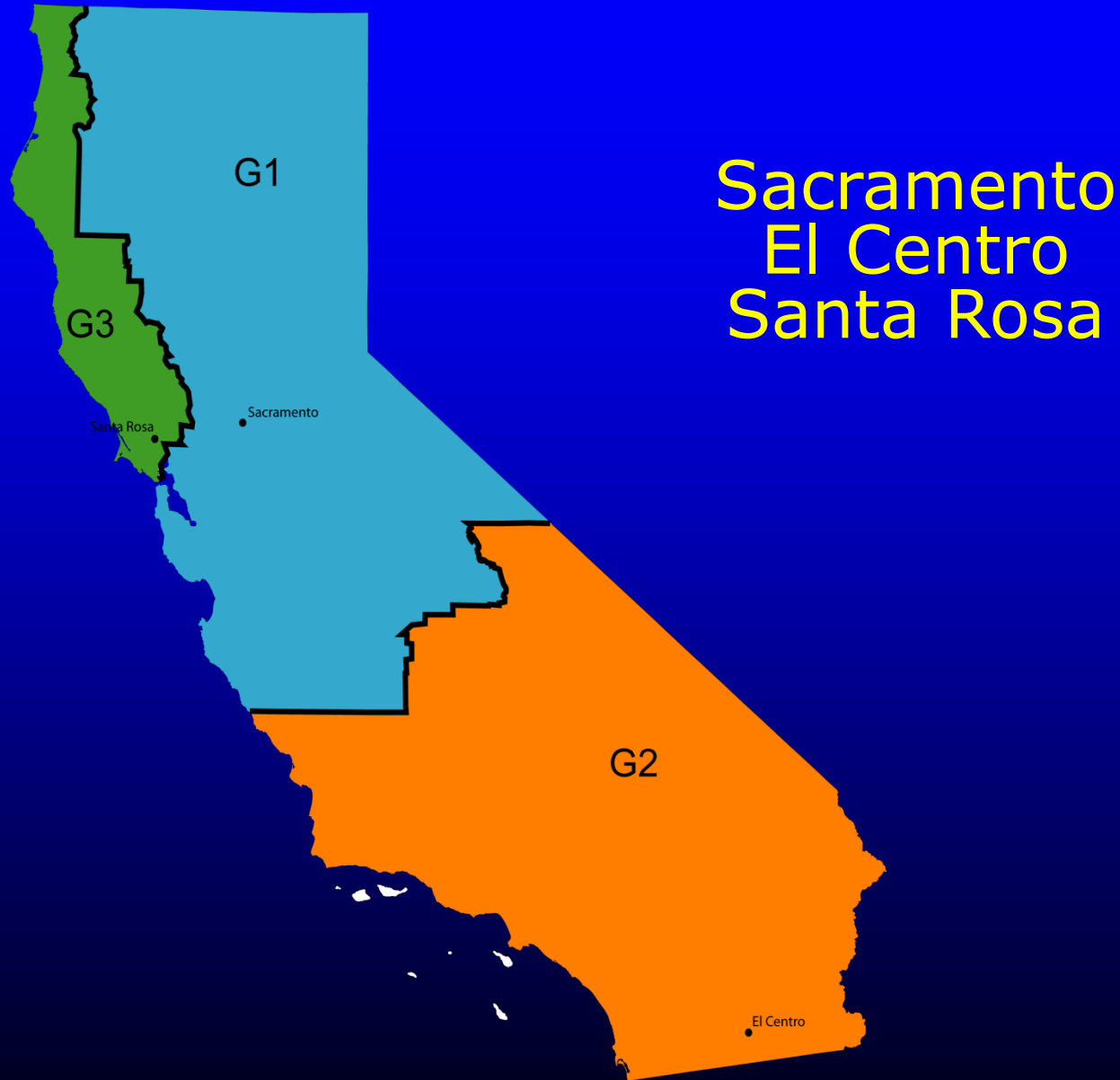
# Geothermal in California

**Elizabeth Johnson**  
**Geothermal Officer**



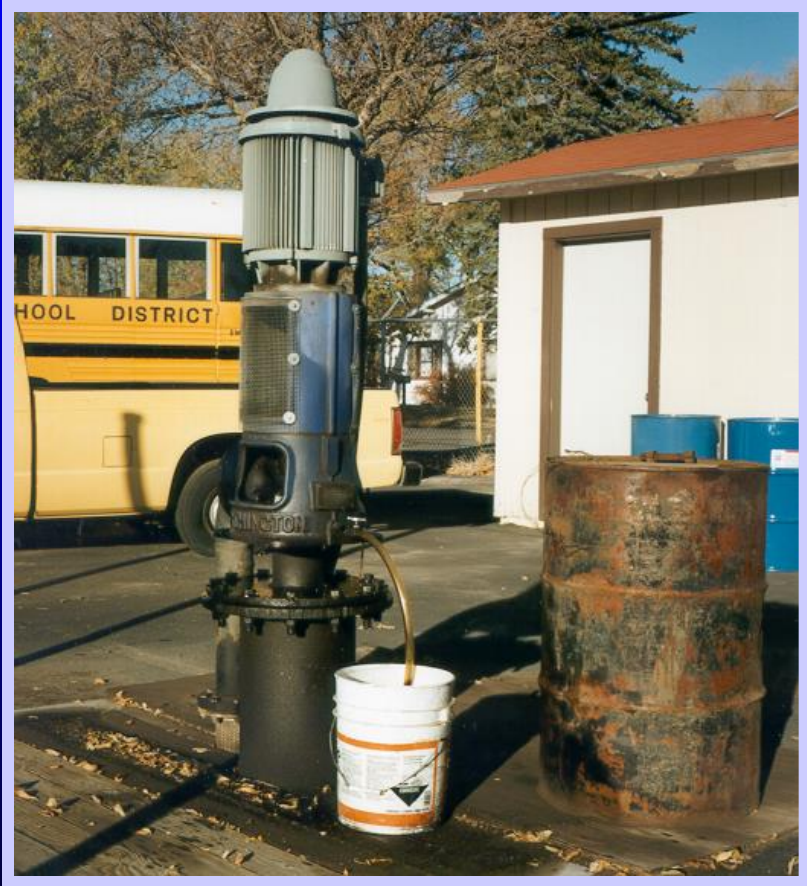
**Department of Conservation**  
**Division of Oil, Gas, and Geothermal Resources**  
**801 K Street, MS 20-20**  
**Sacramento, CA 95814**

# DOGGR Geothermal Offices

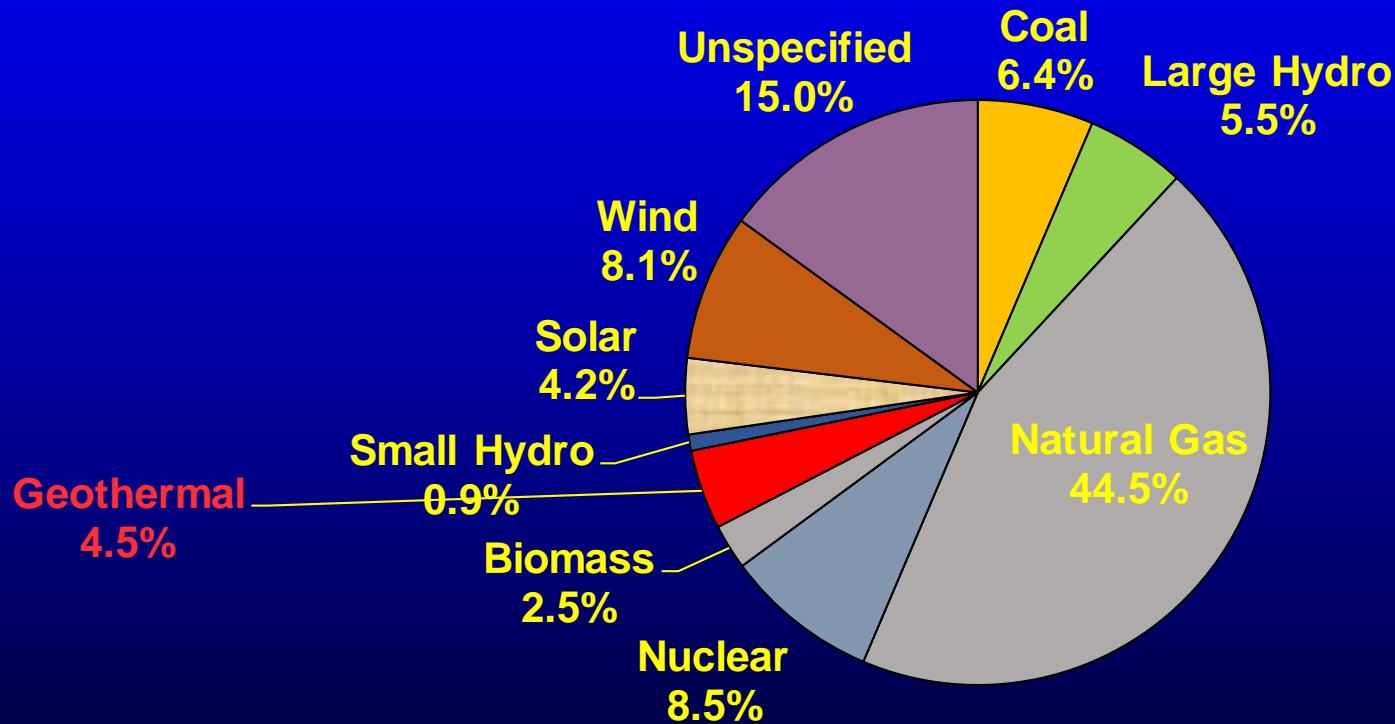


# Current Geothermal Wells in California

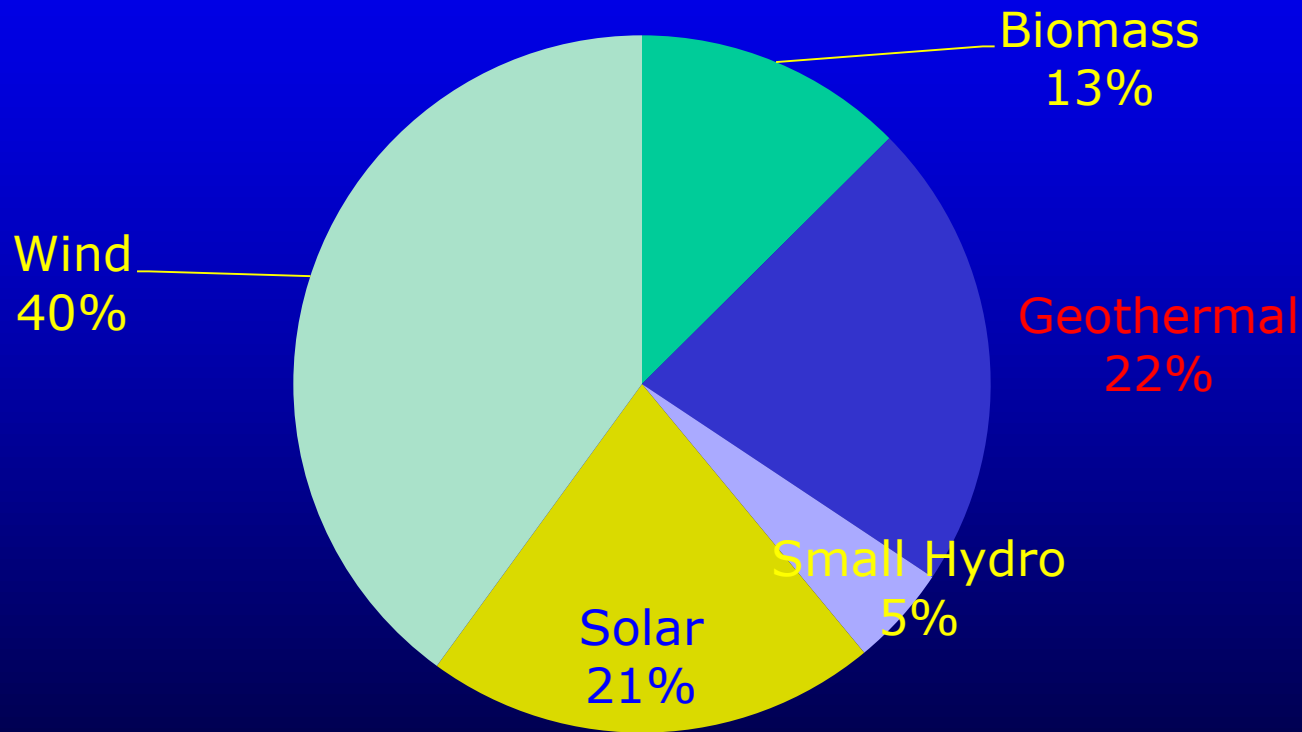
- 452 Steam
- 269 High-temperature Water
- 321 Injection
- 210 Commercial Low-temperature
- 179 Non-commercial Low-temperature
- 66 Observation
- 104 Temperature-gradient



# Sources of Electricity in CA, 2014

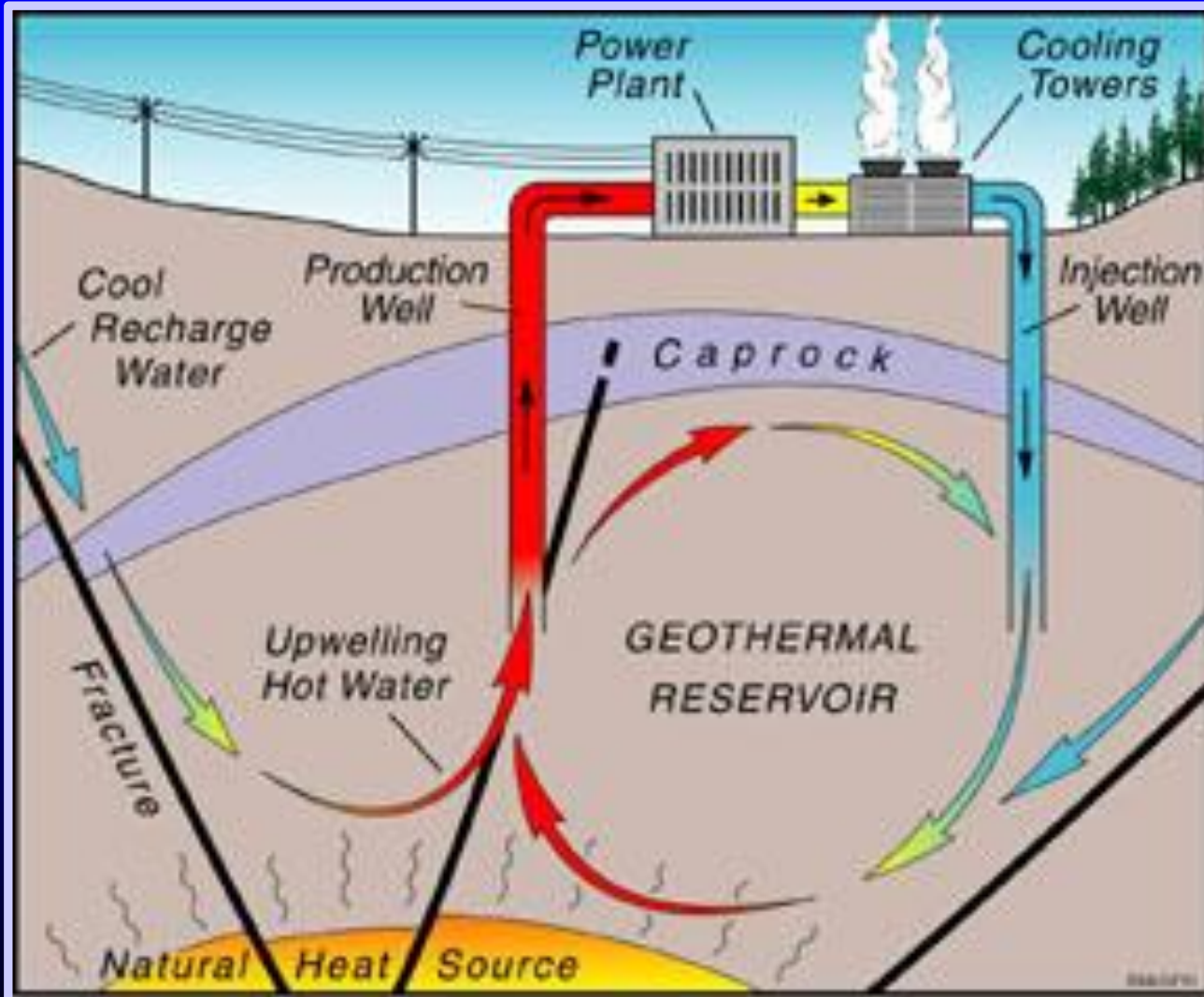


# Renewable Energy produced in CA in 2014

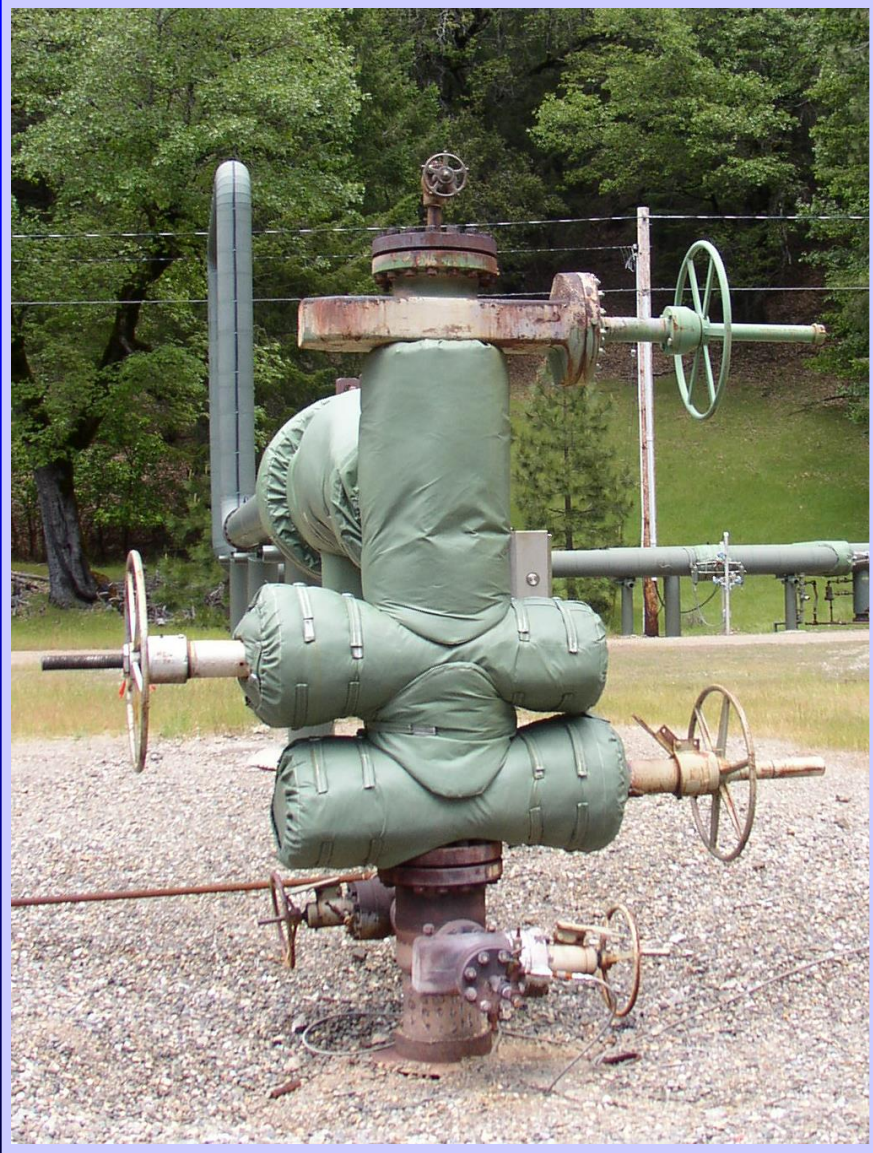


# California Geothermal Sites



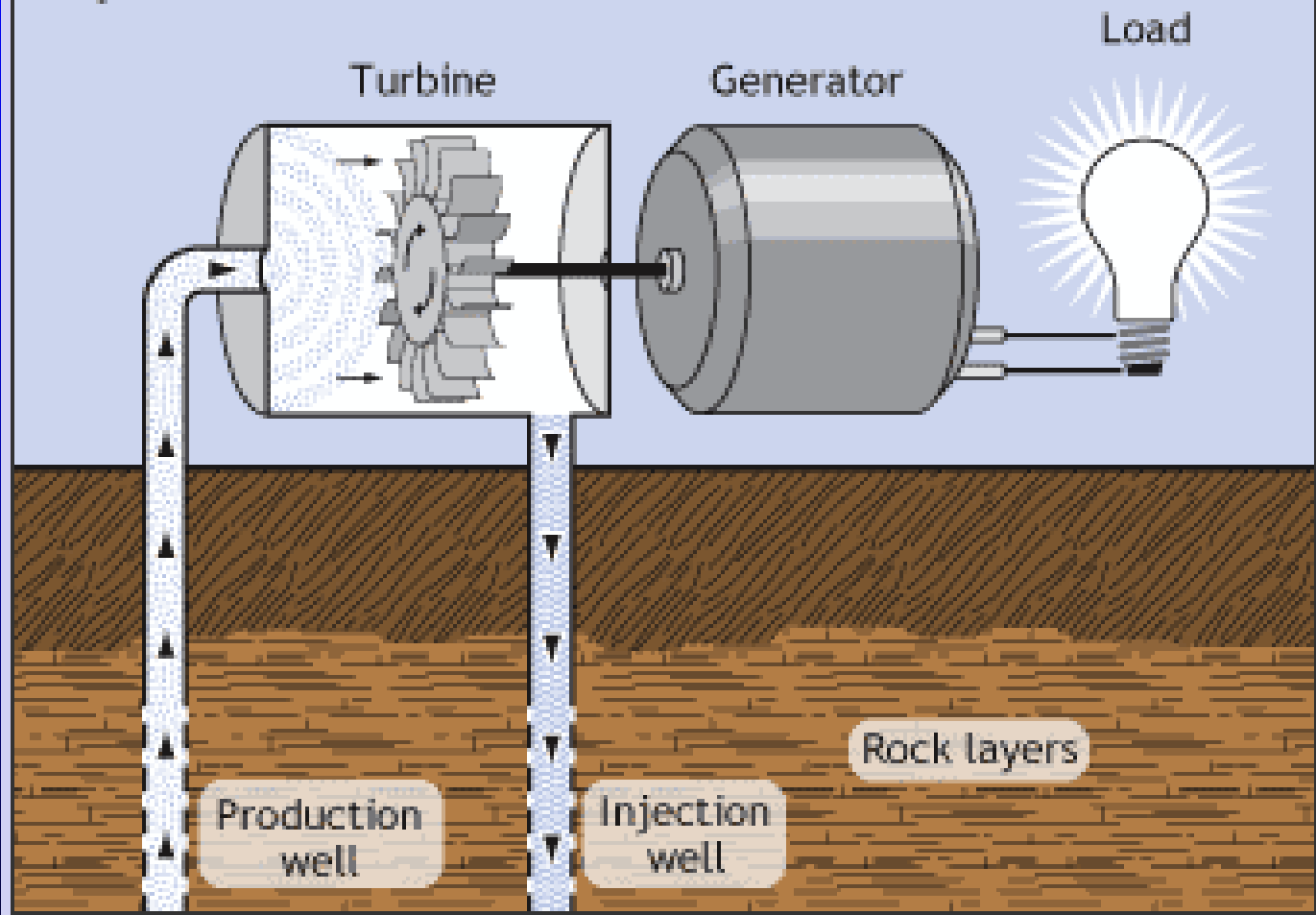




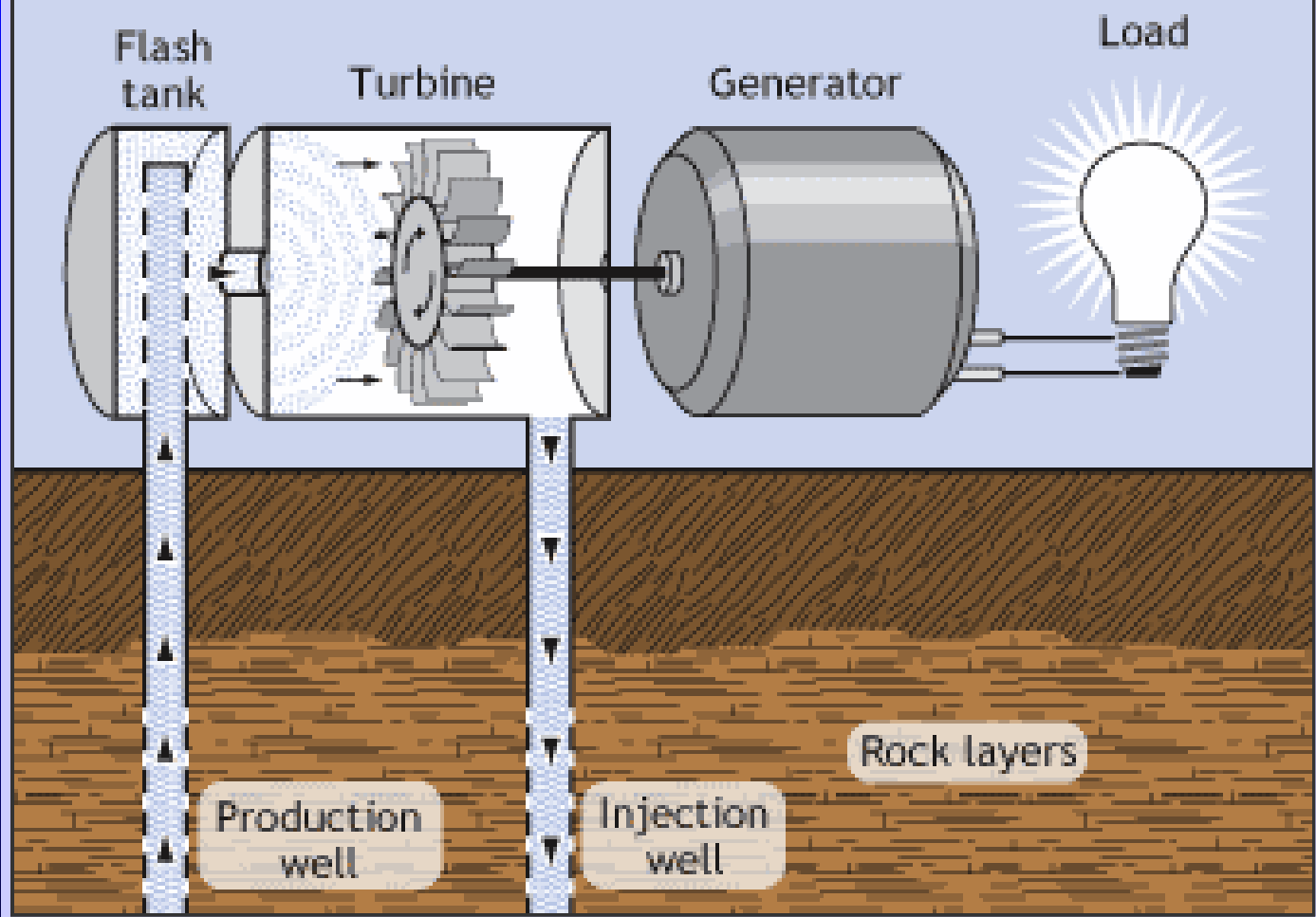




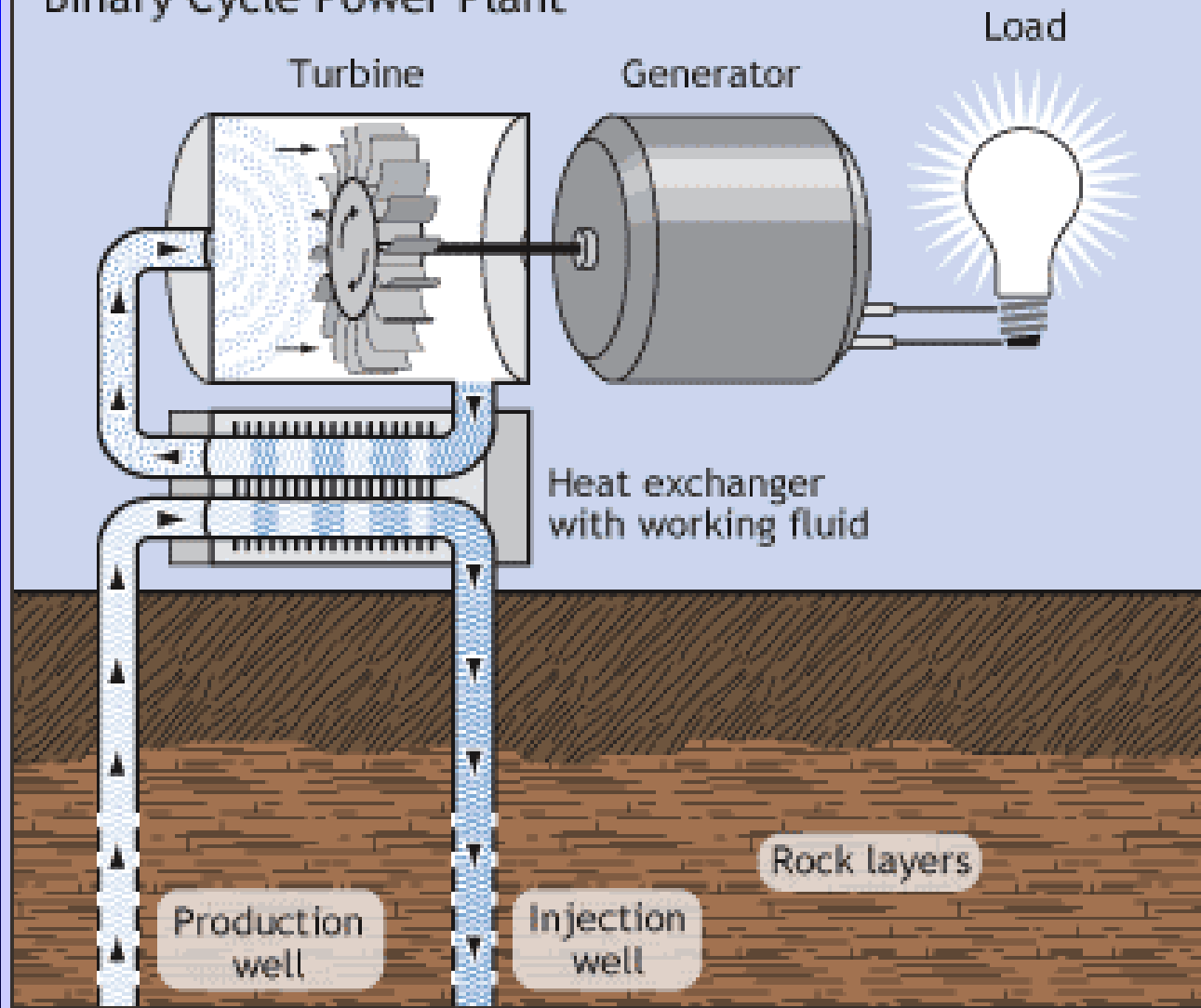
# Dry Steam Power Plant



# Flash Steam Power Plant



# Binary Cycle Power Plant



# The Geysers



The Geysers









# Waste water pipelines



# Imperial County Geothermal Fields



# Salton Sea





# Total Dissolved Solids

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(Typical Weight %)

Chloride	15.40
Sodium	5.27
Calcium	2.65
Potassium	1.65
Carbon Dioxide	0.17
Iron	0.15
Manganese	0.14
Zinc	0.05
Silica	0.05
Other	0.16
<b>Total Dissolved Solids &amp; Gases</b>	<b>25.69</b>







**Thank  
You!**



