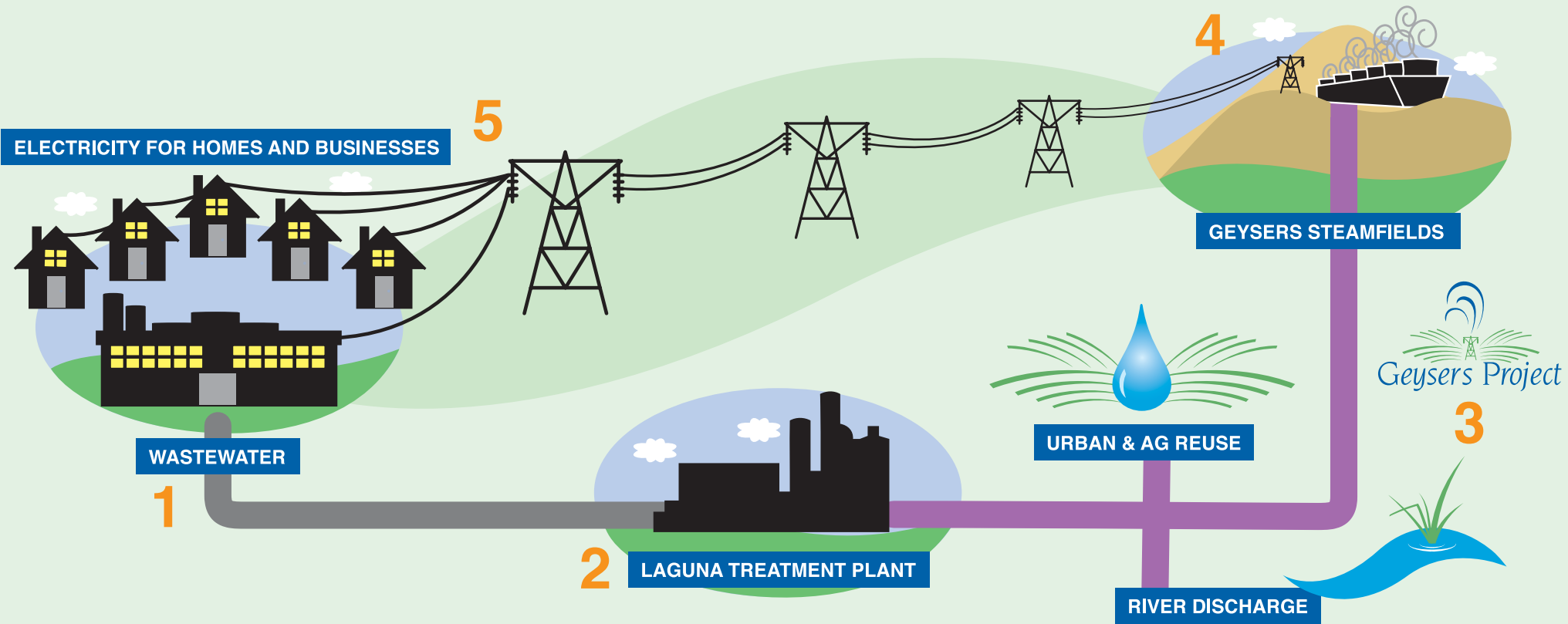


# Sustainable Reuse: Going Full Circle



## How Wastewater Becomes Electricity

**1.** The Laguna Wastewater Treatment Plant is operated by the Santa Rosa Subregional Water Reclamation System. The wastewater is received from homes, businesses and industry in Santa Rosa, Rohnert Park, Sebastopol, Cotati, the South Park Sanitation District and portions of unincorporated Sonoma County.

**2.** At the treatment plant, millions of gallons per day of highly treated wastewater is produced in one of the most advanced treatment systems in the United States. The filtered UV-treated tertiary recycled water meets or exceeds the highest level recognized in California water recycling regulations (Title 22).

**3.** After treatment, approximately 13 million gallons per day of this reusable water is pumped to the Geysers Recharge Project's terminal tank, which sits above The Geysers steamfields. The remaining water is used either for agricultural or urban irrigation, or is discharged into local waterways.

**4.** The energy company injects the recycled water into production wells, where rocks heated by the underlying magma cause the water to become steam. The steam is harnessed and then sent through insulated pipelines to a generator unit where it spins turbines to create electricity.

**5.** The electricity produced is enough to provide energy to 100,000 households in Sonoma and other North Bay counties, some of which are the very homes that send their wastewater to the treatment plant, thus creating a sustainable full circle.