

## Residential Water Recycling

Recycled water is highly treated domestic wastewater that can be used for landscapes. There are multiple grades of wastewater -- Greywater is domestic wastewater from kitchen sinks, dishwashers, and washing machines. Greywater may include household cleaning products and food particles. Blackwater refers to water used in toilets -- water that contains human excrement. In total, 50 to 80 percent of water used in homes is recyclable. Greywater (and even blackwater) can be diverted and treated through a filter system and then further used to irrigate landscapes.

Depending on the extent of treatment, recycled water can be cleaner and safer to use than tap water. This practice has become more widespread in California and other arid states. Each state has a set of specific regulations on the use of recycled water use, and some states require permits. Using recycled water can significantly reduce residential water waste.

Source: [\*Household Waste Water Recycling Systems\*](#), Green Living

### Organizations

[Australian Water Association](#)

[Greywater Action](#)

[National Onsite Wastewater Recycling Association](#)

[Water Reuse Association](#)

### Research

"[Water Recycling 2030: Recommendations of California's Recycled Water Task Force](#)," Department of Water Resources / California Recycled Water Task Force

"[The New Create an Oasis with Greywater: Choosing, Building and Using Greywater Systems – Includes Branched Drains](#)," Art Ludwig, Oasis Design, 2006

"[Guidelines for Water Reuse](#)," U.S. Environmental Protection Agency, 2004

### Resources

[Grey Water Policy Center](#)

[Household Waste Water Recycling Systems](#), Green Living

[Recycled Water in Australia](#)

### Government Resources

[Choosing a Greywater System](#), Department of Environment, Water, Heritage, and the Arts, Australian Government

[Green Plumbers: Best Practice Guidelines for Installation of Household Stormwater and Greywater](#)

[Recycling Systems](#), National Water Commission, Australian Government

[Greywater and Wastewater](#), Department of the Environment, Water, Heritage and the Arts, Australian Government

[Groundwater Replenished System](#), Orange County Water District, California

[National Rainwater and Greywater Initiative](#), Department of Environment, Water, Heritage and the Arts, Australian Government

[Recycled Water Codes and Ordinances](#), Marina County Water District

[Recycled Water Policy](#), California State Water Resources Control Board, California Environmental Protection Agency

[Recycled Water Program](#), City of San Diego, California

[Recycled Water Use in the Landscape](#), Government of Canada

[Waste Water Systems](#), Department of Planning and Development, City of Berkeley, California

[Water Recycling and Reuse: The Environmental Benefits](#), U.S. Environmental Protection Agency

## **Projects**

[Lumenhaus](#)

Virginia Polytechnic Institute and State University

[Silo House](#)

Cornell University