

Extending Precious Resources

The United States is facing a water crisis. Without intervention, experts predict that some states will run out of water within the next 5 to 10 years.

The Problem

The population continues to grow, resulting in increased water use. Global water use has tripled since 1950. Looking ahead, even more water will be needed if we are to feed the world's growing population - predicted to rise from about six billion today to 8.9 billion by 2050. In the United States, water supplies are being depleted more quickly than they are replenished. Each year California pumps out 15 % more water from the ground than the rains replenish, while Arizona uses groundwater at twice the rate of recharge. Water levels in our river systems and reservoirs are predicted to continue to fall, decreasing the reliability of water available for irrigation, cities and hydropower.

"The wars of the 21st Century will be fought over water."

—ISMAIL SERAGELDIN

EPIC System vs. Conventional Sprinklers

10 ACRE AREA	SPRINKLERS	EPIC SYSTEM
Water use per year	26 million gallons	11 million gallons
@\$2.43/1000 gallons	\$63,180	\$26,244
Fertilizer Loss	40%	0%
Sprinkler system repair parts	\$7,000	\$0
Labor force plus benefits	\$120,000	\$70,000
Cost per year	\$190,180	\$96,244
Savings per year		\$93,936
10 years savings		\$939,360

The Solution

Better management and increased usage of emerging technologies and solutions are critical steps in addressing water scarcity. Using a unique combination of patented and complementary technologies, Rehbein Environmental Solutions can reduce water use 50 – 85%. Combined with grey water re-use, it's possible to reduce water consumption even further.

**Rehbein Environmental Solutions –
Water Management Experts**

Strategic Growth



Administrators, developers, designers, and residents can avoid costly changes and negative consequences later by implementing building practices that rely on resource-efficient materials and technologies.

Rehbein Solutions – Supporting Your Green Bottom Line

- Direct reduction in amounts of water used for residential and commercial irrigation by 50%-85%
- More efficient water management through the reuse of grey water and EPIC's filtration capabilities
- Improved aesthetics by eliminating water stains and molds from overspray on buildings or foundations
- Reduced maintenance costs
- Reduced soil compaction
- Increased availability, without the inconvenience of downtime common during sprinkling with conventional surface irrigation

Applications

- Commercial and Retail Landscaping
- Sports Fields, Stadiums, and Courses
- Specialized Municipal Construction
- Equestrian Facilities
- Residential
- Agricultural Fields