Looser standards for showerheads could send a lot of water and money down the drain

2 September 2020, by Robert Glennon

Democratic Congress and signed by Republican President George H.W. Bush, set the maximum flow rate for showers at 2.5 gallons per minute. President Trump is proposing to increase the rate, which he calls inadequate to wash his "beautiful hair."

It may sound funny, but it's not. As someone who writes and teaches about water law and policy, I know that the U.S. water supply is finite and exhaustible. Most Americans take water for granted, but as population growth and climate change exacerbate water shortages, experts increasingly argue that water policy should promote conservation.

When is a showerhead not a showerhead?


For more than 25 years, Congress has directed U.S. government agencies to set energy and water efficiency standards for many new products. These measures conserve resources and save consumers a lot of money. Until recently, they had bipartisan support.

But President Trump has turned efficiency standards into symbols of intrusive government. His administration has opposed many of these rules, including standards for light bulbs, commercial boilers, portable air conditioners and low-flow toilets. His latest target: showerheads.

The Energy Policy Act of 1992, passed by a...
For example, the proposed rule provides three images of fixtures with between three and eight heads attached to a single pipe coming out of the wall. So long as none of the individual heads has a flow greater than 2.5 gallons per minute, the measure asserts that each fixture satisfies Congress’s quest for water and energy conservation.

How can the Energy Department allow shower fixtures with as many as eight heads, each emitting 2.5 gallons per minute? For context, Webster’s dictionary defines a showerhead as a “fixture for directing the spray of water in a bathroom shower.”

But the proposed rule interprets "showerhead" to mean "an accessory to a supply fitting for spraying water onto a bather." With this sleight of hand, a congressional rule limiting showerhead flows can be deftly avoided by installing a hydra-headed fixture with multiple "showerheads," each flowing at 2.5 gallons per minute.

The agency also released a fourth image of a wall fixture with seven nozzles, which the rule would not subject to the 2.5 gallons per minute maximum. The Energy Department deems these fixtures a "body spray" rather than a showerhead because they are "usually located" below the bather's head. (Of course, the person showering may be short, or the plumber may install the fixture high on the shower wall.) Body sprays may have six or eight nozzles with no flow limits.

The sad part of this foolishness is that the Environmental Protection Agency’s WaterSense program, which identifies water-efficient projects and promotes water conservation, has been spectacularly successful, at virtually no cost to consumers or the regulated community. Showers constitute 17% of residential water use. That's 40 gallons per day for the average family, or 1.2 trillion gallons annually in the United States.

WaterSense fixtures and appliances have saved Americans more than 4.4 trillion gallons of water and US$87 billion in water and energy expenses since the program began in 2006. Low-water-use fixtures—including showerheads, toilets and washing machines—are now the accepted norm across the United States.

Some early products, such as the first high-efficiency toilets, had some hiccups. But that was 20 years ago. Today, notwithstanding President Trump’s declaration that “people are flushing toilets 10 times, 15 times, as opposed to once,” consumers embrace low water-use fixtures because they work well, save money and reduce water and energy consumption.

Tapped out
Today the United States faces serious water problems. Georgia and Florida are fighting a prolonged battle over flows in the Apalachicola River. Excessive groundwater pumping is causing water levels in wells to plummet and springs to dry up. As I explain in my book, "Unquenchable: America's Water Crisis and What To Do About It," farmers are competing with cities for water.

COVID-19 has helped to make the affordability of water a national issue. Some rural areas, such as the Navajo Nation, where many people need to haul water to their homes and villages, have higher rates of coronavirus infection. People who have lost their jobs find themselves unable to pay their water bills, which in turn compromises the financial stability of water providers.

Allowing showers to use more water would have several unfortunate consequences for cities across the country. It would increase the amount of water cities must treat; raise the chances of raw sewage overflows at water treatment plants—especially in cities such as Washington, D.C. that combine storm and sewer water; and increase the amount of energy used to pump and treat water.

Disrupting low-flow fixture rules would create special hardships for western cities, such as Los Angeles and Las Vegas, that have struggled with water shortages for decades. Both cities remarkably reduced their total water use between the 1980s and 2020, despite rapid population growth, partly by converting residences to low water-use fixtures.

Water is not just another natural resource. Without it our bodies cease to function, our crops dry up, and our economy grinds to a halt. We can't make any more water, so it makes sense to use the water we have wisely.

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