and gas industry is working diligently to make hydraulic fracturing

and gas industry is working and gas industry is working the footprint the process has on the environment and to reduce the footprint the process has on the environment.

of the fluid used to fracture a well returns to the surface and is captured with produced gas. This fluid is called produced water.

Today, a majority of major gas producers in the Marcellus are **reusing this water** for use in new wells.



Reuse of produced water reduces demand for freshwater and reduces the need for disposal of waste water.

The natural gas industry only accounts for of additional total water usage.

Reduction in **Chemical Additives**

Many natural gas companies operating in the Marcellus have found ways to reduce the amount of chemical additives used in fracturing fluid while still effectively producing gas from shale.

These diluted, common additives account for less than 1 percent of fracturing fluid.

Total water use

"From Flowback to Fracturing: Water Recycling Grows in the Marcellus Shale", Journal of Petroleum Technology, July 2011.

aallons

"Water Use in Marcellus Deep Shale Gas Exploration", Chesapeake Energy, January 2012.