

156-UNIT APARTMENT COMPLEX

Frederick, MD

March 19, 2019



PROJECT OVERVIEW

A Sage Conservation strategic partner was responsible for comprehensive audit of water use at a 156 unit apartment building in Frederick, MD, scope including a total of 2 buildings. Non-invasive tub spouts were retrofitted with an auto diverting thermostatic system that is designed to expel Structural Waste 2x faster than possible through a shower head. No other water saving measures were performed at this facility.

Retrofits were installed in five business days.



WATER AND ENERGY SAVINGS

Due to the much higher velocity of water moving through the tub spout, less thermal loss occurs as the water travels through the plumbing line to the shower. Gallons of hot water saved were estimated at 769,217 per year.

This single non-invasive measure resulted in saving 785,345 gallons in the first year, from 11,234,157 to 10,448,803 gallons, a 7% decrease in hot water use. This translates to \$10,174.31 per year in water savings and \$11,147 in energy savings, 85,744 kWh for a total of \$21,321.31 saved by only spending \$9,360 on materials and without even touching the lighting, sinks, toilets, heating, or cooling! The lifespan of the product is 10 years, resulting in \$101,743.10 in savings.

BRINGING IT HOME

These same simple changes in Seattle would result in \$20,186.76 in water savings and \$9,945.88 in energy savings in the first year, and \$167,971.72 over 5 years without even scratching the surface of what could be accomplished at this property.

SAGE CONSERVATION