

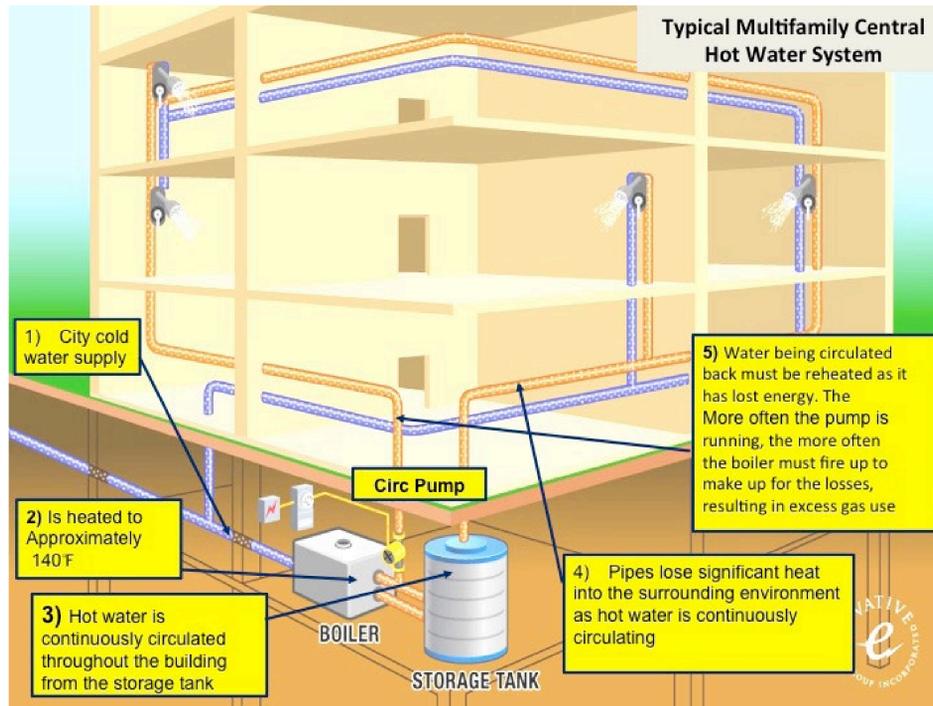


ON-DEMAND  
EFFICIENCY

# SoCal Gas® On Demand Efficiency Hot Water Recirculation Control System A Simple Program That Delivers Big Results

## The Challenge

Many older multifamily buildings employ a central boiler, recirculating pump and plumbing loop to deliver hot water to the building's occupants. This system was designed and installed to ensure short wait times for hot water delivery to the individual living units without consideration of energy use or cost. Typically the recirculation pump has no controller, or has a time clock controller that is often bypassed. Consequently, the hot water system operates all day and night whether or not hot water is needed, wasting natural gas and electricity.

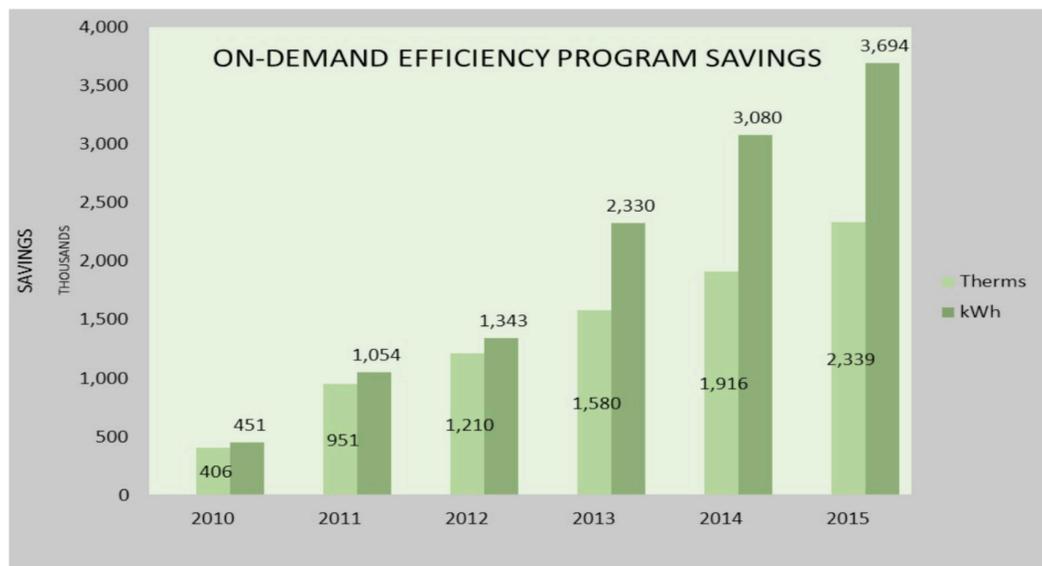


## The Solution

Installing an on-demand control assures that the hot water recirculation pump is only activated when an occupant calls for hot water. The controller monitors water flow as well as the temperature of the supply and return water lines. If the controller detects a drop in the temperature of the water lines it will activate the pump for a short period to increase the temperatures so occupants will still experience short wait times for hot water.

## Annual Savings Data

- 23 therms per low-rise dwelling unit
- 14 therms per high-rise dwelling unit
- 1,228 kWh per controller
- Program TRC: 1.12



## What Benningfield Group Is Doing about the Challenge

The Benningfield Group, Inc. is contracted by Southern California Gas Company (SoCal Gas®) to install on-demand recirculation controls in existing multifamily buildings within the utility's service territory. The program is called "On Demand Efficiency" (ODE). The ODE program is a direct installation program which provides the building owner with the equipment, installation, programming and adjustments, a five year limited warranty on the controller and a one year limited workmanship warranty, all at no cost. The building owner enjoys the cost savings on natural gas and electricity while providing the same hot water delivery to the building occupants.

[www.odeprogram.com](http://www.odeprogram.com)

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