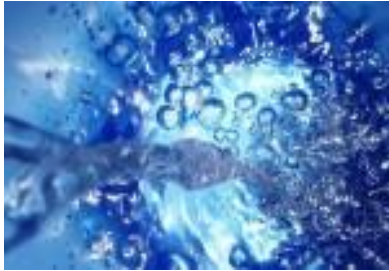


# Flushing Toilets May Help Power Homes in South Korea

Source: [inhabitat.com](http://inhabitat.com)

Published: April 21, 2014



Scientists in South Korea have come up with a way to use the mechanical energy of flowing water as a sustainable energy source. The research shows how the energy potential of [flushing toilets](#) can be utilized to help power people's homes. [According to the researchers' experiments](#), the movement of a single water droplet is enough to light a green LED.

Researchers from [Seoul National University](#) and [Korea Electronics Technology Institute](#) developed a new piece of equipment that can turn simple actions like flushing a toilet into a new [sustainable energy source](#). The key of their experiments lies in developing an electric charge within running water. Through use of special transducers, the scientists were able to convert mechanical motion into electrical power without the use of any external bias-voltage sources.

The active capacitive-transducers consist of several layers wrapped around patterned transparent electrodes. According to the team's experiments, it can turn on a green LED through the motion of only one flowing [tap water](#) droplet. This demonstrates the wide applicability of water's natural movement, which may also be used for large-scale water motions such as rain, rivers and even sea waves.

This article no longer exists at the Source link above. It can be found in the [Matteroftrust.org](http://Matteroftrust.org) Resource Library.

---