

Toilet Flush Hydropower – Written Entry & Diagram

My invention is a **Toilet Flush Hydropower Kit** that turns flushing water into renewable electricity. Every time a toilet is used, litres of water rush down the pipe with enough force to spin a turbine. Normally, that energy is wasted. My idea is to capture it and turn it into clean power.

Powerful toilet flushes happen multiple times a day, but none of that water energy is used. My solution is a **mini hydro generator tube** that fits neatly between the toilet tank and the bowl. Inside the tube is a small turbine. Each flush pushes water through the turbine, spinning it like a tiny waterwheel. The turbine drives a small generator, which produces electricity. This electricity charges a small battery, storing energy for later use. Even if each flush only creates a small amount, multiple flushes every day add up to useful power.

The design is made for **easy installation**. The tube is built with rubber seals and clips so it can replace the normal pipe without special tools. A small box on the side contains the generator and battery. You can connect the battery to your house electric system or use it to charge mobile phones or laptops.

This invention helps reduce emissions because it reuses energy that would otherwise be lost. By turning toilet flushes into electricity, households can rely less on the fossil-fuel grid. The Toilet Flush Hydropower Kit turns an everyday action into renewable energy, reducing emissions one flush at a time.

Design

