Battery-less smart home monitoring
www.airyliving.com

Problem

15B billion batteries end up in landfill every year. Batteries from current smart home sensors, like the door and window security sensors (left), make a reasonable chunk of this waste. In addition to the obvious environmental impact, changing batteries on sensors is a hassle and users often skip.

Solution

Airy presents battery-less door and window sensors for home monitoring application. Our compact sensor features a micro-generator that generates electrical energy from the mechanical impact produced in the normal operation of a door or window.

A ZF micro-generator powering a custom RF transmitter packaged as the Airy Sensor (black) shown here monitoring a swing door operation. When the door is opened or closed, the sensor sends a unique code (without needing any battery) to our WiFi hub, which relays it to the user through an App.

What sets Airy and Our Team apart

- Can be installed to monitor doors, windows, cabinets and drawers (install and forget - no maintenance)
- 400 ft transmission range (good for a 2500 sq ft multi-floor townhome)
- Works with the Hook Smart Home Hub (EIC 2nd Place 2015, now on Amazon.com)
- Priced competitively (BOM is <$10 - we obtained a quote from ZF for 5k units shipped to Shenzhen)
- Team has prior product development experience in the same space