Charge Your Smartphone and Power Your Home with Micro-Windmills

In the world of wind turbines the news seems to suggest that bigger is better. However, an engineer is able to reliably manufacture miniature objects, things we wouldn’t expect to just put out on any desk or in our own home. And what is this a huge windmill behind the thought? Windmill? It’ll be better to fit houses with thousands of microscopic windmills that are invisible but still do the job.

Wind Energy Technology (Image Courtesy: http://www.sleb.de), 1/8 mm of width, pitch.

Research associate Siddhant Rane and electrical engineering professor J.C. Bray at the University of Texas, Austin, have come up with a novel idea to recharge smartphones and perhaps one day, power homes. Using miniature wind turbines, small enough to fit for 10 as a grain of rice, these researchers envision smartphones using electricity from the air or holding it up to a stiff breeze on a windy day to generate enough electricity to charge a battery to make a call or send a text message.

1,000 Tiny Windmill “Robots” Could Save Your Life

Each tiny windmill is just 1 mm at its widest point. Hundreds or even thousands of these windmills could be installed on the surface of a smart phone, providing enough electricity to recharge a dead cell phone battery. A company in Taiwan, WindmillED Technology, currently involved in metallic fabrication, has already acquired the rights to sell the technology.

David Schilling

David lives in the North End of Boston, Massachusetts, and regularly visits MIT, Harvard, Boston University, Northeastern, Boston College and Boston Public Library to uncover and research story ideas. You can also find David on Google.