

Install Solar Panels

www.homeadvisor.com

Enter Your Zip Code & Connect To Pre-Screened Solar Panel Installers

ARCHITECTURE

PRODUCTS









TECHNOLOGY



Teeny Tiny Windmills Could Power Future **Smartphones**

by Lori Zimmer, 01/14/14

filed under: green gadgets, News, Wind Power

tilea unaer: green gaagets, ivews, vvina Hower



FEATURED AUTHOR



RECENT ARTICLES

Six Yummy Organic Recipes For Your Super Bowl Party

Sao Paulo Bans Animal Testing with \$435,000 Fine Per Animal

Yellowstone National Park Rejects Plan to Shoot Bison With Vaccinated Biobullets

Inhouse Brands Converted a Shipping Container into 99c's Colorful Waiting Room in Cape Town

READ INHABITAT

- Architecture >
- Landscape >
- Products >
- Gadgets >
- Fashion >



8+1

93

Tweet

tumblr.

404

II Like

11

8+1

93

Tweet

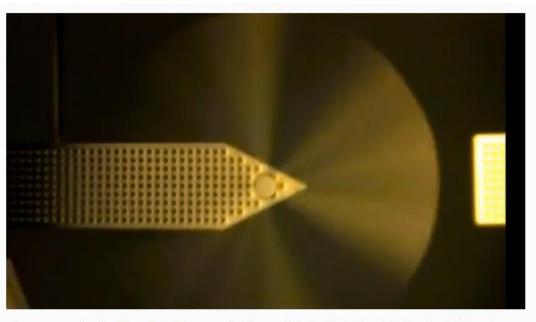
765

f Share

Researchers at the University of Texas at Arlington are working on the world's tiniest wind farm that could fit on a grain of rice and charge your smartphone! The teeny tiny windmill is just 1.88mm wide, and uses a miniscule electroplating system to generate spinning power. Headed by Smitha Rao and J.C. Chiao, the research team has partnered with WinMEMS Technologies Co. to realize the baby windmill project.







The super conducting tiny windmills are made from resistant nickel alloy picked for its rigidity and durability. Each of the little mills is made using a technique similar to origami. The mini fan is selfassembled with wafer-scale semiconductor electroplating principles shrunk down to a bug's eye view. The 1.88mm fans are so small that ten of them could be placed on a grain of rice, working together as a miniature powerhouse.

With the concept in place, Rao and Chiao are looking to WinMEMS Technologies Co. to help bring the mini conducting fans into production and enter the marketplace. The windmill system could be made inexpensively, and serve as a renewable power source for chargeable devices. Once produced, the windmills could be grouped together, on a sleeve of a smart phone or attachable device. The user would then activate the windmills by waving the sleeve about, blowing on them or even talking near them. The vibrations created would be enough to kickstart the miniature wind farms, and begin to charge the smartphone without the need to plug a charger into the grid.

+ University of Texas at Arlington

Via Gizmodo







Pinit

🚹 facebook this 🖂 email 🖨 print 🍑 Tweet 🛭 93











TRENDING TOPICS

"sustainable

architecture" **CCO**

design green architecture Green Building

green

design green transportation Recycled

Materials Solar Power Sustainable Building

sustainable design