

Micro Wind Mills



- Make a copy
- Share
- Embed
- Like

Public & reusable

micro-windmill

No description

by [Elena Rodriguez](#) on 31 January 2014 • 11 Tweets 0

Comments (0)

Please [log in](#) to add your comment.

[Report abuse](#)

Transcript of micro-windmill

slide 2

The devices are made of nickle alloy.

They can be made in a batch process where hundreds or thousands can be made on a single wafer, which would make them inexpensive to produce.

Beyond charging our cell phone, the researchers think that the micro-windmills could also be applied to make energy for other things.

slide 1

Smitha Rao and J.-C. Chiao designed and built the device that is about 1.8 mm at its widest point.

J.-C. Chiao was a professor of electrical engineering at the University of Texas, Arlington, Smitha Rao, a graduate research associate at UT, Arlington, developed micro-windmill technology based on recent advances in micro-robotic devices.

slide 3

Rao's designs blend origami, 3-D moveable mechanical structures, two-dimensional metal pieces optimized by WinMEMS Technologies Co., that took an initial interest in Rao's work. A single grain of rice can hold about ten micro windmills.

An iPhone 4 could fit about 2,040 of the micro-windmills on its surface

WinMEMS was founded in 2007

The micro windmills were tested successfully in September 2013 in Chiao's lab.

sources:

- <http://www.rdmag.com/news/2014/01/technology-uses-micro-windmills-recharge-cell-phones>
- <http://www.designboom.com/technology/scientists-develop-micro-windmills-to-recharge-smartphones-01-15-2014/>
- <http://www.treehugger.com/clean-technology/micro-windmills-could-one-day-charge-cell-phones.html>
- <http://www.winmemstech.com/en/news/45/>
- <http://appleinsideneews.com/wp-content/uploads/2014/01/UT-Arlington-thumb-macworld-aus-258x213.jpg>
- <http://www.gizmag.com/worlds-smallest-windmill-energy-harvesting/30425/>

Micro Wind Mills

WinMEMS offers high-quality and sophisticated MEMS(Micro-Electrical-Mechanical-System)

The micro wind mills are getting a lot of hate :

33,300 students and 2,300 faculty members second largest institution in the University of Texas System

More presentations by Elena Rodriguez

La llorona



Copy of College/Career PROJECT



Mathmatician



[More prezis by author](#)

Popular presentations

from Assignment to Research Question



I. Understand the Assignment; II. Choose a topic; III. Gather Background Info; IV. Develop a research question