Micro Wind Mills

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by Elena Rodriguez on 31 January 2014 • =post • Tweet

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Transcript of micro-windmill

slide 2

The devices are made of nickel 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 changing our cell phone, the researchers think that the micro-windmills could also be applied to make energy for other things.

slide 3

Smita 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, Smitta Rao, a graduate research associate at UT, Arlington, developed micro-windmill technology based on recent advances in micro-robotic devices.

slide 4

Rao's designs blend origami, 3-D movable 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:

Micro Wind Mills

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

The micro windmills are getting a lot of hate:

35,500 students and 2,300 faculty members

second largest institution in the University of Texas System