

[Log in](#) or [Sign up](#)

**INDUSTRIAL
MODULAR
INVERTERS**
 From 0.5kVA to 225kVA

24 V DC
 48 V DC
 60 V DC
 110 V DC
 220 V DC

**CET+
POWER**
 Leading AC Backup Technology
www.cet-power.com

[Login with Facebook](#)
[Home](#) > [Community](#) > [CE : Technical Discussions](#) >

Micro windmills to recharge your mobile phone

Discussion in 'Other Engineering Trades' started by Kaustubh Katdare, Tuesday at 11:07 AM.



by

[Kaustubh](#)[Katdare](#), Jan 14, 2014 at 11:07 AM

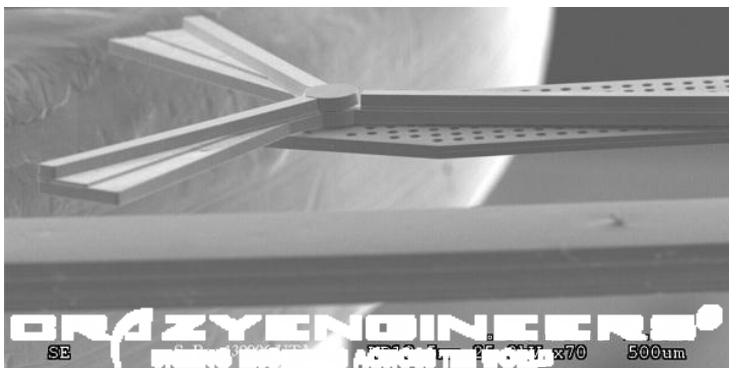
Tweet

0

Like

0

How do you like the idea of about 10 windmills mounted on a single grain of rice? Well, the good news is that it's not an idea anymore; and you might soon have your own, personal micro-windmills that will recharge your mobile phones and tablet computers. Dr. Smitha Rao and J.C. Chiao from University of Texas at Arlington have been doing some crazy awesome engineering lately and have succeeded in developing micro-windmills that are just 1.8 mm at the widest point! The researcher duo believe that hundreds of such windmills can be hosted on your mobile phone and used to charge your mobile phone on the go.



Looking for **ELECTRONIC**
 components?

FIND NOW

Quick Tip



Oven Fresh

Latest Updates

Downloads


[MRF Tyres Placement papers for...](#)
[Damodharan_Vijay23](#) posted Today at 12:19 AM

[MRF Tyres Placement papers for...](#)
[Damodharan_Vijay23](#) posted Today at 12:19 AM

[Payment for Android App -...](#)
[Keerthivasan R](#) posted Today at 12:04 AM

[Post increment in a loop](#)
[gwendollen](#) posted Yesterday at 11:39 PM

[Install turbo c++ in windows 8.1...](#)
[Aadit Kapoor](#) posted Yesterday at 9:08 PM

[Home](#) > [Community](#) > [Downloads](#) > [Apps](#) > [Members](#) > [Events](#)
[Advanced Search](#)

fabrication company WinMEMS Technologies Co. The officials were very surprised when they saw micro windmills in action. The company is currently exploring the commercial opportunities and showcasing Rao's work through their website (see source) and public presentations.

The researchers were able to blend the concepts of origami & wafer-scale semiconductor devices allowing them to create complex 3D structure from 2D metal pieces. Rao believes that when it comes to potential applications of micro windmills, she's only scratched the surface.

Rao's micro windmills use a nickel alloy and a smart aerodynamic design which solves the problem of durability, which most of the MEMS designers face. Thousands of these micro windmills working in sync can allow you to recharge your electronic devices and also power your houses. The possibilities are limitless.

Here's a video of the microwindmill in action -



Source: [UTA](#) | [WinMEMS](#)

Like x 1

Kaustubh Katdare, Tuesday at 11:07 AM

#1

The CrazyEngineers Connection



CrazyEngineers Sponsors



Proud To Be On LiquidWeb



Community ... Other Engineering Trade

s

Water Pumping Windmills

www.obrockwindmills.com

Towers,Pumps,Parts,Well Supplies Shipped or installed anywhere,41yrs



Small MILL-Lathe-Drill 

Solar Water Well Pumps 

Siemens Wind Energy 



Categories:

Comments

Discussion in 'Other Engineering Trades' started by Kaustubh Katdare, Tuesday at 11:07 AM.



SarathKumar Chandrasekaran Just 1.8mm !!!!!
Awesome engineering

SarathKumar Chandrasekaran, Tuesday at 1:02 PM

#2



alina nishat amazing

alina nishat, Tuesday at 7:08 PM

#3



Ahmed sarfraz it's amazing to see these windmills working. regarding their potential, i must say that these mills still have a lot of scope in the real world (provided they can work). Also, not necessarily, these are not good designs and i have read about the actual designs. the actual designs are much more effective and efficient. I

wonder why Rao and Chioa tossed their names for
successful working of these mills

Like x 1

Agree x 1

Ahmed sarfraz, Tuesday at 8:23 PM

#4



Suhel143 its amazing....

Suhel143, Wednesday at 9:22 PM

#5



Ahmed sarfraz

Suhel143 said: ↑

its amazing....

yes, it is but the only problem related to this is that these
are still not commercial

Ahmed sarfraz, Thursday at 8:21 PM

#6

(You must log in or sign up to reply here.)

Share This Page

Tweet

0



0

Like Be the first of your friends to like this.