



SOLAR

WIND

STORAGE

SMART GRID

OTHER

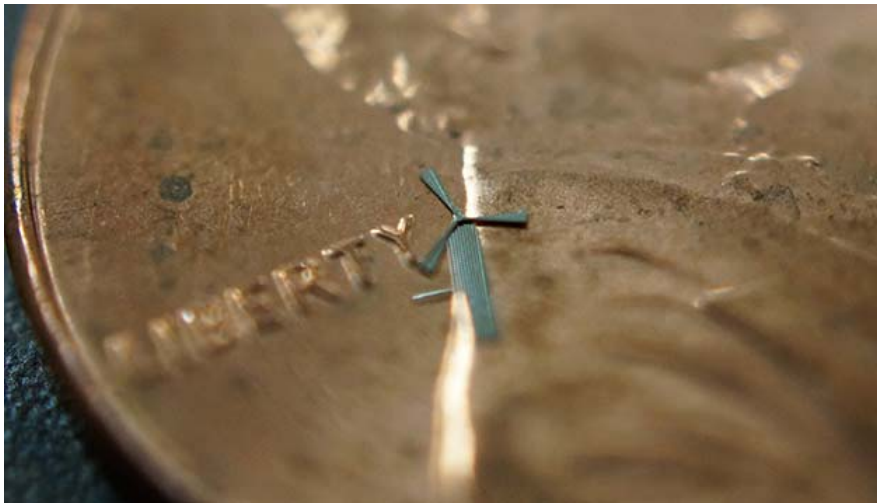
ABOUT

FEBRUARY 3, 2014

YOU ARE HERE: [HOME](#) / [WIND](#) / [INNOVATION](#) / TEXAS UNIVERSITY DEVELOPS MICRO WINDMILLS, SMALLER THAN A GRAIN OF RICE, TO POWER YOUR PHONE

Texas University develops micro windmills, smaller than a grain of rice, to power your phone

JANUARY 14, 2014 BY [JASPERHORMANN](#) [LEAVE A COMMENT](#)



- Grab your wallet and take out the smallest coin you have... Now imagine that you install dozens of micro windmills on them, millimeter sized.
- Researchers at the University of Texas (US) developed a wind turbine this size, yet capable of charging smartphones.
- The micro windmill, designed by professor Chiao and associate Rao, are so tiny that a single grain of rice could hold 10 of them. The researchers also developed gears, inductors, pop-up switches and grippers that are all as small as a fraction of the diameter of a human hair.
- The researchers envision putting hundreds of micro windmills in a sleeve for a cell phone. By waving it in the air or by holding it up to an open window on a windy day, the micro windmills generate electricity for the phone's battery.
- "When the phone is out of battery power, all you need to do is to put on the sleeve, wave the phone in the air for a few minutes and you can use the phone again", according to Chiao.
- The Taiwanese company Win-MEMS (Micro-Electrical-Mechanical-Systems) is exploring ways to commercialize the turbines. The university applied for a provisional patent.

- Chiao said the technology's deployment could be extended to home energy. Thousands of turbines could be mounted on home or building walls to produce the energy needed for lighting, security, wireless communication and more.
- Watch [this video](#) to learn more about the amazingly small technology.

Read more about wind power and innovative wind power technology, here:

[Amazing results: Theater seats-like positioning of wind turbines boosts output by 33%](#)

[Scientist claims algorithm can boost wind power reliability](#)

[The next big thing in offshore wind: Floating wind turbines?](#)

[Innovative wind technology: Company says 600% more efficient](#)

Source: EcoWatch

Link: [Innovative Wind Turbine Smaller Than a Penny Could Power Your Smartphone | EcoWatch.](#)



FILED UNDER: [INNOVATION](#), [OTHER](#), [WIND](#)

TAGGED WITH: [MICRO WINDMILL](#), [PHONE BATTERY](#), [TEXAS UNIVERSITY](#), [WINDMILL](#)

Leave a Reply

Enter your comment here...

FEATURED STORY

If solar panels cost \$1 per Watt, why do you pay \$5 per Watt to get a solar system?

The average selling price of solar-modules was \$0.72 per watt in 2013. After bringing that news, readers asked us: If modules cost \$1/Watt, why do we pay \$5 per Watt for a solar system*? With ... [Read Full Article](#)

SHARE GREENZONE NEWS!

GREENZONE POLL

Energy efficient lighting

Why don't you have efficient light bulbs?

☐ I didn't know about them

☐ I am too lazy to buy them

☐ My house is full of them!

☐ I can't find the right replacements

☐ I don't want to spend money on that

☐ Other

VOTE

[View Results](#)

Total Votes 28

MOST POPULAR STORIES

Read the full interview with Rawlemon creator André Broessel.

Our biggest energy resource: Coal, oil, nuclear, solar, wind? None of them...

If solar panels cost \$1 per Watt, why do you pay \$5 per Watt to get a solar system?

If renewables are the future, why are utilities selling their solar and wind projects?

Rawlemon solar sphere: Amazingly beautiful solar power generator

TAGS

ASIA Asia battery california CO2 coal Efficiency electricity Electric vehicles energiewende energy energy storage European Union feed-in tariffs gas

Germany gigawatts Google Japan megawatts offshore photovoltaic power renewable Renewable energy renewables Smart

Grid Solar solar-PV SolarCity solar energy solar module solar panels solar power sustainable turbine turbines UK US USA

Utilities wind wind farm wind power wind turbine

FOLLOW US ON TWITTER

My Tweets

Copyright © 2014 · News Pro Theme on Genesis Framework · WordPress · Log in

Follow

http://greenzone.co/2014/01/14/texas-university-develops-micro-windmills-smaller-grain-ri... 2/3/2014

Follow Greenzone

Get every new post on this blog delivered to your Inbox.

Join other followers:

SIGN ME UP!