How to capture enough ambient electromagnetic energy

- Posted by Leslie Langnau on August 25, 2011 at 5:25am in General
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Here's a cool story from Georgia Tech researchers. They have discovered a way to capture and harness energy transmitted by such sources as radio and television transmitters, cell phone networks, and satellite communications systems. By scavenging this ambient energy from the air around us, the technique could provide a new way to power networks of wireless sensors, microprocessors and communications chips.

http://www.designworldonline.com/articles/7632/12/Researchers-Captu...

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Permalink Reply by Jack Gilbert on August 26, 2011 at 11:29am

Maybe Tesla was on to something after all.

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Permalink Reply by Leslie Langnau on August 29, 2011 at 10:17am
He was certainly ahead of his time.

Jack Gilbert said:

> Maybe Tesla was on to something after all.

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Permalink Reply by Aaron Racheed on August 30, 2011 at 12:13am

Hi,

There is a large amount of electromagnetic energy all around us, but nobody has been able to tap into it ultra-wideband antenna that lets us exploit a variety of signals in different frequency ranges, giving us greatly increased power-gathering capability.We can useinkjet printers to combine sensors, antennas and energy-scavenging capabilities on paper or flexible polymers. The resulting self-powered wireless sensors could be used for chemical, biological, heat and stress sensing for defense and industry, radio-frequency identification (RFID) tagging for manufacturing and shipping, and monitoring tasks in many fields including communications and power usage.If you find the information suitable to you please go the link http://www.processregister.com/find/Find.asp?SearchTy=PName&Sea...

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Permalink Reply by Ward Holloway PE on August 31, 2011 at 7:48am
I built a crystal radio once. The radio waves are harnessed to power whatever speaker you use.

- ▶ Reply


Permalink Reply by Leslie Langnau on August 31, 2011 at 11:22am
Interesting idea, Ward. Thanks for sharing.

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