

Title: Wearable Microgrid Shirt

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Researchers at the University of California San Diego have created what they have termed a "wearable microgrid," a smart shirt which harvests and stores energy from the human body -- taking as its input ...

Engineers at the University of California San Diego, have created a wearable microgrid screen printed onto clothing. The microgrid harvests and stores energy from the human body to ...

Created by a team at the University of California-San Diego, the "wearable microgrid" shirt incorporates sweat-powered biofuel cells, motion-powered triboelectric generators, and...

This shirt harvests and stores energy from the human body to power small electronics. UC San Diego nanoengineers call it a "wearable microgrid"--it combines energy from the wearer's sweat and ...

Close-up of the "wearable microgrid," a washable shirt harvests and stores energy from the human body that uses supercapacitors on its chest that can discharge energy to power small...

This "wearable microgrid" shirt uses biofuel cells that are powered by sweat in tandem with triboelectric generators that are motion-powered. The shirt harvests energy from both sweat and ...

Nanoengineers at the university have created a prototype shirt that collects sweat to power triboelectric generators, which in turn make energy that the shirt can store and discharge to ...

Here, the authors report a system-level wearable e-textile microgrid system that relies solely on human activity for energy harvesting.

Thus, the U.S. team has applied the concept of a "wearable microgrid"--a shirt capable of generating and storing electricity in various ways. This garment will combine two well-known energy sources.

The idea for the shirt was inspired by microgrids that have the ability to run independent of the electric grid.



# Wearable Microgrid Shirt

Portable and wearable electronics, such as smartwatches, have grown in popularity.

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