

A tree that generates electricity when the wind blows



Overview

AMES, Iowa – Money doesn't grow on trees, but electricity might someday. Mechanical energy is made up of kinetic energy (the energy of an object in motion) and potential energy (stored energy). Energy is naturally available in many forms, including. A prototype biomimetic tree has been built that generates electricity when wind blows through its artificial leaves. The researchers think such technology may help people charge household appliances without the need for large wind turbines.

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Can Tree Movement Generate Electricity?

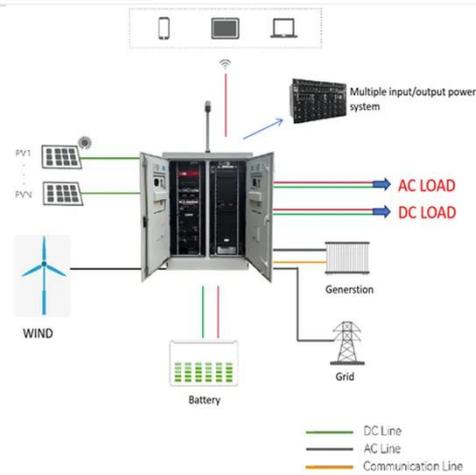
What if instead of replacing nature with energy-producing devices, we instead augmented trees to turn them into energy generators themselves via the way branches naturally sway in the wind?

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Scientists design electricity generator that mimics trees

Money doesn't grow on trees, but electricity might someday. Iowa State University scientists have built a device that mimics the branches and leaves of a cottonwood tree and generates electricity

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(PDF) TREES: A GENERATOR OF ELECTRICITY IN FUTURE

In this experimental study, we propose and test a bioinspired piezo-leaf architecture which converts wind energy into electrical energy by wind-induced fluttering motion.

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Plants Can Generate Electricity from

the Wind , Electronics360

The team created a hybrid tree that is made of natural and artificial leaves. Both kinds of leaves act like a green electrical generator that allows the plant to convert wind into electricity.

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Generating electricity from flapping tree leaves

In this study, Dr. McCloskey and his team created a prototype of a plant and used piezoelectric materials inside the artificially created leaves to harness electrical energy every time the "leaves" were ...

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Wind Trees silently generate electricity from gentle breezes

Imagine a tree, with its trunks and branches made of steel, where each leaf is a mini wind turbine. These artificial trees don't just blend with the urban scenery; they actively contribute to it. A mere ...

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Iowa State University scientists design electricity generator that

Iowa State University scientists have built a device that mimics the branches

and leaves of a cottonwood tree and generates electricity when its artificial leaves sway in the wind.

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Green plants generate electricity - 150 volts per leaf

When the wind blew into the plant, the leaves moved, and the 'hybrid tree' subsequently generated electricity. The more the leaves moved and touched each other the more electricity they produced. ...

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Scientists develop 'power plants' inspired by leaves that produce

French company New World Wind is producing small-scale wind turbines that look like trees -- a 36-leaf tree could generate enough electricity to power a four-person household for one year.

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Efficient Electricity Generator Inspired by Leaf Movement

Although the leaves are small, together they generate a sizeable amount of energy. Additionally, these generators

look like natural trees with leaves fluttering in the wind.

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