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ELECTRICITY GENERATED FROM THE AIR

In 2020, scientists Jun Yao and Derek Lovely from the Massachusetts university developed an Air-gen instrument that generates electricity by collecting moisture from the atmosphere. Device works thanks to Geobacter microorganisms (proteobacteria, which produce electrically conductive protein nanowires. By placing nanowires between the electrodes, you can get an electric charge) (Fig. 1).

The device produces a constant voltage of about 0.5 V for twenty hours and then "self-recharges." With the help of Air-gen scientists were able to light several light bulbs. The energy produced can charge smartphones, smartwatches and small household devices. In the future, the invention will allow you to create electronics that do not require connection to the mains and battery replacement.

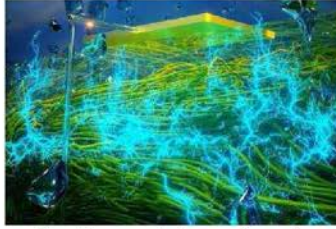


Figure 1 – Electrically conductive protein produced under the influence of nanowires

There are suggestions that the technology can be added to the paint for the walls inside houses and apartments to help generate electricity and heat the room.

Researchers hope to create an industrial production of Air-gen in the future. The device will replace other sources of renewable energy (wind, water or solar energy), as they can be used even indoors without harming the environment.

The device produces energy that is inexpensive and environmentally friendly. Warm air generated by global warming contains a large amount of moisture, so this device fits into the picture of the future.