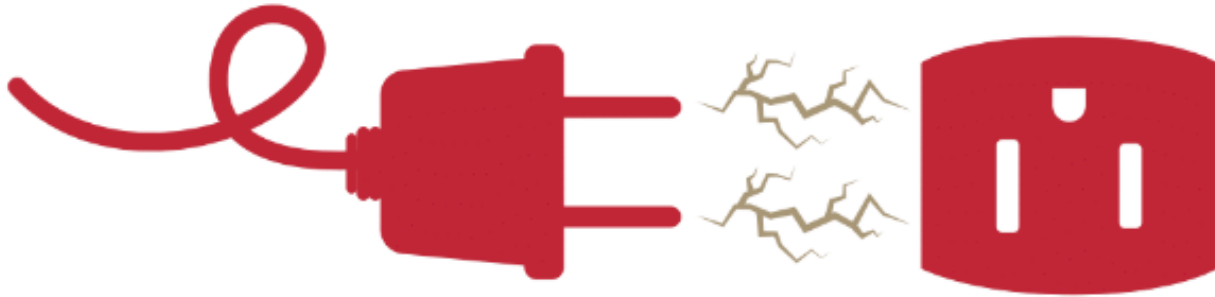


COLLECT WIRELESS ELECTRICITY!



To charge our phone, to operate a food processor, to receive the Internet at home, to turn on the light ... all our electricity relies on the use of electric cables or even batteries. Although the vast majority of cables are hidden underground, in walls, in oceans ... they all represent logistical complexity and are a source of pollution. If the miracle solution does not exist, a new system under test makes it possible to make electricity ... wireless!

Science fiction?

On the demo table, you can watch a light come on. Its electricity does not come from a wire, but from a transmitter placed 1.5 m away and to which it is not connected! However, in this demonstration, it is only a question of transmitting the necessary energy to power a few sensors, not to power high-power machines!

How does it work?

The transmitter broadcasts a radio frequency wave picked up by an antenna, which is itself connected to the platform used to light the diode in question. This wireless electricity powers a diode, but also temperature, humidity and even light sensors. The data thus acquired is transmitted to the computer (by a cable, this time!).

The future of this technique

At the moment, these sensors operate by means of radio waves that are intentionally intended for them (that is to say that the direction of emission, the distance or even the frequency are adjusted to the sensors). The next iteration of this system will be to harvest energy from the waves scattered in the atmosphere. Thus, in the most remote regions, without any source of electricity, these systems could still work!