The resulting battery for portable devices is charged with human sweat
Researchers in Singapore have developed a battery charged with human sweat to power portable electrical devices: smart watches and sensors that monitor vital functions, local media reported on Monday.

A prototype battery constructed by researchers at Nanyang University of Technology (NTU) produces enough energy to power commercial temperature sensors. It is flat, two centimeters by two centimeters, and produces electricity for 20 hours with two milliliters of sweat. It does not need to be charged additionally - the CNA station said.

The head of the research, prof. Lee Pooi See told reporters that the device does not contain heavy metals or toxic substances, which could help reduce the amount of harmful electronic waste.

The battery consists of silver flakes and a hydrophilic substance applied to an elastic fabric. The material absorbs sweat, so that the device can work stably, even if the person wearing it is not sweating all the time.

Lee estimated that the new technique will allow the creation of more durable devices, resistant to pressure or moisture. However, scientists still face challenges. They want to make the battery able to give electricity for longer periods of time when there is not enough sweat.