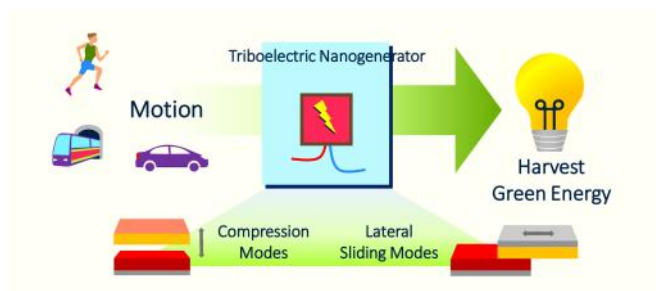


A low-cost nanogenerator capable of harvesting energy from motion

An affordable nanogenerator with the ability to extract energy from motion.

Applications: Automotive, wearable electronics, self-powered sensors, batteries



Features	Benefits
A triboelectric nanogenerator capable of harvesting energy from motion	Low-cost green energy generation; Can be used in self-powered devices and sensors
Composed of readily available commercial materials	Minimises cost of manufacturing; Simplified material supply chain
Operates in four working modes based on compression and lateral energy harvesting	Can be easily customised and tailored for use in various energy harvesting applications
Stable power output for over 100,000 cycles. 5-20 W/m ² power-density per unit area	Highly durable construction; Operates under conditions of prolonged mechanical shock
–150°C to 150°C operating temperature	Suitable for energy harvesting applications in extreme climate conditions and environments

Awaiting patent and Available for

- Co-development
 - Consulting
 - Licensing
-

To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.

The above information is provided 'as is' without conditions or warranties. Oxford University Innovation makes no representation and gives no warranty that it is the owner of the intellectual property rights in the technology described. © Oxford University Innovation Ltd 2026, Buxton Court, 3 West Way, Oxford, OX2 0JB.