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E. Hardware Description Figure shows a typical power harvesting system. It includes an external energy source (vibration of dance floor), a transducer (Piezo electric crystal) to convert energy from external energy to electric power, a harvesting circuit to



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optimize the harvesting efficiency and a storage battery or a load circuit.

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Energy Harvesting Through Dance Floor E. Hardware Discription Figure shows a typical power harvesting

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Energy Harvesting through Dance

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Floor Using Piezoelectric

A thought experiment by Stanford student Seth Winger produced similarly disheartening results when he calculated that a popular nightclub

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of 1400 guests that uses an energy harvesting dance floor would only produce about  $4 \times 10^7$  joules in a night. [5] That number translates to only 11.1 kWh.

Energy Harvesting Flooring  
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The mechanical energy created by



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dancers causing slight vertical deflection of the floor /ud is converted into usable electrical energy by means of electromagnetic induction. Once captured, /ud the energy will be transported through a simple circuit and used to power lights that will help to /ud enhance the experience of the

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## Energy Harvesting Dance Floor - CORE

In the clubs, initial estimates suggest an individual clubgoer could generate roughly 5 to 10 watts, and on a night

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Floor Using Piezoelectric  
where the dance floor is packed with moving bodies, the energy from the floor could supply about 60 percent of the club's total energy needs [source: Daily Mail]. Enough to save us from the world's energy crisis?

Harvesting Energy from Human

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Piezoelectric Energy harvesting floor as a sustainable clean energy is generating a usable electricity depending on people footsteps pressure, this valuable energy is wasted in spite of its available clean source (human movement).

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This innovation is followed by the introduction of the Smart Energy Floor in 2018. Both the Sustainable Dance Floor and the Smart Energy Floor are designed and assembled in

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our hometown Rotterdam. MADE IN ROTTERDAM Like Rotterdam – known for pioneering, pushing boundaries and a no-nonsense vibe – we have a typical make it happen-mentality. For us, this means making a floor that is smart, interactive and makes sustainability fun.

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Home | Energy Floors

The Dancer. The Dancer uses human movement as a source of energy. Each floor module can produce up to 35 Wp of sustained output. This kinetic energy is directly converted into electricity. Through this process the

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floor interacts with the public and involves them in a unique and interactive energy experience. We use the generated electricity on the spot to power the floor ' s infinity LED lights.

The Dancer | Energy Floors

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Wang previously trialled a similar system that could harvest energy from the motion of a car's tires. In this case, electricity is generated through cellulose nanofibers less than a millimeter...

Simple, inexpensive method for

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generation using this method is based on the concept of Piezoelectricity.

Piezoelectricity is a type of electrical energy that is produced as a result of mechanical pressure (like walking, running or dancing).

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If you happen to dance on a floor that is equipped with piezoelectric technology, as soon as your feet hit the floor, a certain amount of pressure is applied. This pressure is captured by sensors present in the floor, and is



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subsequently converted into an electrical charge by piezo materials (usually present in the form of crystals or ceramics).

Piezoelectric Dance Floor: Can You  
Make Electricity While ...  
SUSTAINABLE DANCE FLOOR is the

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interactive dance floor that generates electricity through the act of dancing.  
00:59 SUSTAINABLE DANCE FLOOR produces up to 25 watts per module. The generated energy is used to power the lighting and DJ booth.

Sustainable Dance Floor | Studio

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In the lab: Working on the technology behind the energy-harvesting floor tiles More than one million people tramped over Pavegen tiles as they passed through West Ham underground station en route...

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