

Step Energy Harvesting

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Abstract: *As a sustainable and renewable energy source, step power generation has attracted a lot of attention. Utilising Stepper Dynamo Motors, which capture the energy generated by human locomotion and transform it into useful power, is one novel method in this subject. The principles, uses, and prospects for footstep power generation are highlighted in this abstract's description of the stepper dynamo motor technology. Specialised generators known as stepper dynamo motors interface with the surfaces of footsteps and use electromagnetic induction to transform the kinetic energy of footsteps into electrical energy. Stepper Dynamo Motors may effectively convert the mechanical force exerted by foot pressure into electrical power in sidewalks, stairways, and other high-traffic locations. The electricity produced can be used to support conventional energy sources, run low-energy appliances, or even add to the grid.*

Keywords: Energy Harvesting, Stepper Dynamo Motor, Renewable Energy, Kinetic Energy

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