

ABSTRACT

Power generation is one of the issues. Now-a-days number of power sources are present, non-renewable and renewable, but still we cannot overcome our power needs. Among these human population is one of the resources. In this project we are generating power by running or walking. Power can be generated by walking upon stairs. This system can be installed in homes, schools, colleges, where the people move around the clock. When the people walk on the steps or that of platform, power is generated by using weight of person. This mechanical energy applied on the crystal into electrical energy. When there is some vibrations, stress or straining force exert by foot on flat platform. Here we propose an advanced footstep power generator system that uses piezo sensors to generate power from human footsteps. The system allows for a platform for placing footsteps. The piezo sensors are mounted below the platform to generate voltage from footsteps. The sensors are placed in such an arrangement so as to generate maximum output voltage. This is then provided to our monitoring circuitry. The circuit is a microcontroller based monitoring circuit that counts the number of steps applied on the weighting plate and the voltage across the capacitor in the rectifier circuit. Then it displays all this information on an LCD screen