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Design and Development of Swing Mechanism for Electricity Generation

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Abstract: *It is critical to look into alternative methods of power generation due to the rising energy demand caused by population increase and development. In order to generate electricity, the project's main goal is to employ a swing, which is frequently used by kids to play. A horizontal beam is rotated by the motion of the swing, and this rotation is then transmitted to a free wheel by a sprocket that is attached to the beam. A chain drive is used to turn the swing completely from its angular movement. A shaft connected to the free wheel turns an electrical generator by turning a motor setup. A commutator then transfers the generated electrical energy to a battery for storage. A sustainable and easily available source of electricity is possible with this novel approach, which offers the potential for power generation through routine activity. It will lower the amount of energy needed to illuminate the landscape at night.*

Keywords: power generation

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