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Producing Electricity from Discarded Plastic

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Abstract:

Everything in the current situation is computerized. As a result, energy use has grown. Yet, a scarcity of natural resources has reduced the amount of power produced. We must use as much electricity as we can achieve it. Here, a heating panel is being used to generate electricity via waste management. Industrial processes produce trash that is not put to any useful use, is lost, discarded, or discharged into the environment. Several waste heat recovery systems can be used to recover the waste material, generating valuable energy sources while lowering overall energy usage. This paper goes into great detail into the operation of the system and the elements that went into its creation. It also discusses the theory underlying the system's operation and the viability of putting this concept into practice in third-world nations. It is revolutionary what this developing technology can do for the third-world nations. It involves renewing and reusing used energy to create more electric power than we can produce. This study discusses the potential applications of this design for industrial use as well as the possibility of storing the electrical energy produced by the wasted heat to make the device portable.

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I. Introduction

It is crucial to identify alternative sources that may be utilized as fuel for the production of electricity, particularly in developing nations, as the need for conventional fuels for electricity production is decreasing day by day. The basic ingredients used to create electrical energy are found in nature in the form of fossil fuels, and the modern world's civilization is heavily reliant on this energy for their daily needs. Electrical energy is being used more and more frequently. There is a shortage of the raw resources needed to produce energy, and there is insufficient electrical energy generation to meet demand.

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