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Generation of Electricity by using Waste Heat

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Abstract: A Thermoelectric generator also called a See Beck generator, is a solid state device that converts heat (temperature differences) directly into electrical energy through a phenomenon called See beck effect. Thermoelectric generators function like heat engines, but are less bulky and have no moving parts. However, TEGs are typically more expensive and less efficient. Thermoelectric generators could be used in power plants in order to convert waste heat into additional electric power and in automobiles the thermoelectric generators to increase fuel efficiency. Another application is radio isotope thermoelectric generators which are used in space probes, which has the same mechanism but use radioisotope to generate the heat require heat peltier.

Keywords: Peltier Plates, Thermoelectric generators, Peltier Module

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