

# Review of Solar Panels & Thermoelectric Generator for Waste Heat Recovery from Automobile Exhaust

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**Abstract:** *This Project involves the thermoelectric generation from the thermoelectric generator module whose principal is Seebeck effect. These modules are connected in series and parallel manner which is attached at the hot junction created by the hot water coming out of the heat engine and the exhaust gasses coming out of the engine. The cold side is created by the fins connected to that module. Both of the heat is large in amount and are wasted if not used. Produced energy from the thermoelectric generator module is transferred to the battery. This battery supplies the energy to the Peltier module which is used to create the colder side as well as hotter side. Again, this module is connected to the solar panels to produce the energy from the sun during the day time which ultimately reduces the load on the AC. So, in this invention the combination of the solar panels and thermoelectric generation module reduces the load on the AC.*

**Keywords:** Thermoelectricity, Electricity Generation, Heat Utilization, Peltier Effect, See Back Effect, Solar Energy, etc.

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