

# Evolution of Waste Heat Power Generation in Industries

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**Abstract:** *Recently, there has been a greater emphasis on the global issue of rapid economic development, relative energy scarcity, waste heat from internal combustion engines, and environmental degradation. About 30 to 40 percent of the heat that is fed into the engine in the form of fuel is transformed into mechanical work that is beneficial. Waste heat must be converted into productive activity since the leftover heat is released into the atmosphere through engine cooling systems and exhaust gasses, which causes entropy to grow and significant environmental contamination. As waste heat recovery methods like thermoelectric generators (TEGs) are developed, they have emerged as a promising green alternative technology because of their unique advantages.*

**Keywords:** thermoelectric generators