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Assessment of the Energy Recovery Potential of a Thermoelectric Generator System for Passenger Vehicles under Various Drive Cycles

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The exhaust energy recovery of a thermoelectric generator was assessed.

A TEG simulation model validated under the steady-state experiment was employed for cycle simulation.

The TEG efficiency was maximized at high-speed, low-load engine operation.

Drive cycle simulation estimated the energy gain from TEG around 1.71~1.92%.

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