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Drive 10 more miles, darling, and we can heat a bath for two

two-thirds of the energy
in petrol or diesel as
heat, but now engineers
have found a way to
recover it — and use it to
myour house.

The thermal energy storage system will be unwelled on Wednesday at the Nextgen environmental technology show

stores hear from the exhaust as the vehicle is driven. Once home, the driver pulls two hoses from the car and connects them to the car and connects them to valves that link the system to a water tank. By running water between the two, the energy is transferred, heating 100 litres of water to 80C in four hours.

Atmos Heating Systems, a

technology. It claims driving 35 miles a day stores 27 megajoules, enough energy to cover the daily hot water use of two people.

Jaguar Land Rover is providing technical support for the peoject and exploring how it could be used in future vehicles.

engines to reduce wear, and to provide instant warmth inside the car on cold winter days.

InGear was shown a prototype of Atmos's system, which consists of a cylinder mounted in the back of a Land Rover Freelander. Exhaust gases, which can reach 500C, are piped through a salt nitrate compound

boiling point above 500C, allowing it to store a large amount of heat without vaporising.

vaporising.

The same technology is used by Nasa on the International Space Station to absorb solar heat and keep experiments at a constant temperature.

Patrick Bynd, director of the project, said: "A preduction version would weigh around 50kg and be built into the car, close to the engine, with enough close to the engine, with enough insulation so that heat generated on your way to work could be

stored throughout the day.
"What we now need is
government support."
Atmos plans to test the

system on a fleet of 200 cars.
However, the first versions of
the device will cost about 22,500,
so the energy bill savings would
not justify the cost.

The company is lobbying for
the thermal storage system to be
included in government
incentive schemes for green
energy. These provide subsidies
for the energy generated and
would give car makers and
homeowners a crucial incentive
to install the devices.

John Thomison, the general
manager of Atmos, admitted:
"The concept does sound like a
crasty idea but it is a clever way
of recovering energy that would
otherwise be washed."

Dominic Tobin

