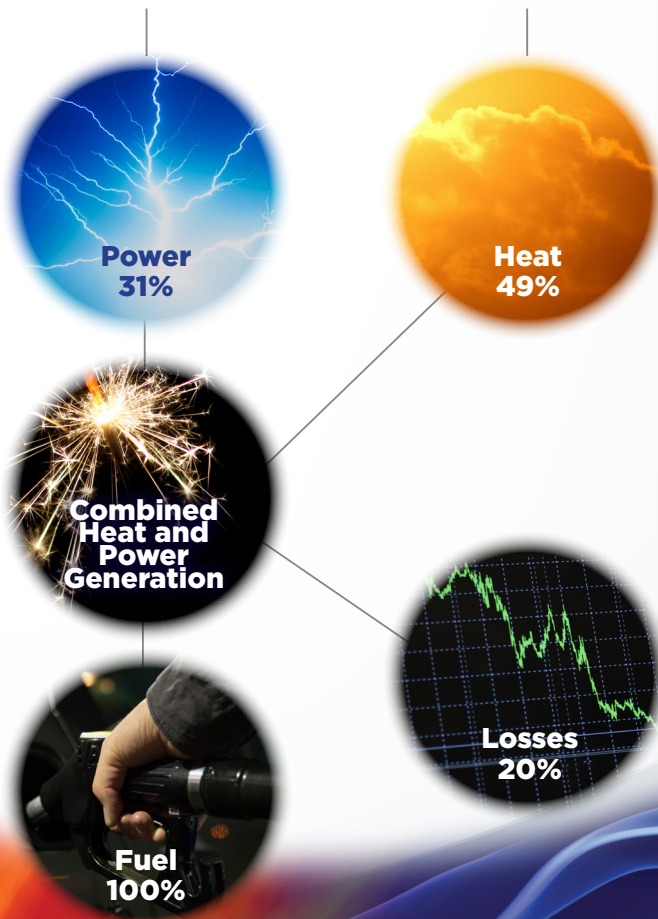


Achieving **80%** Gen-Set Efficiency



Simply by recovering waste heat from your engine, overall gen-set efficiency can be **increased to 80%*** ...and beyond!

Up to 50% ** of all fuel input into the gen-set can be recovered and used as valuable heat energy.

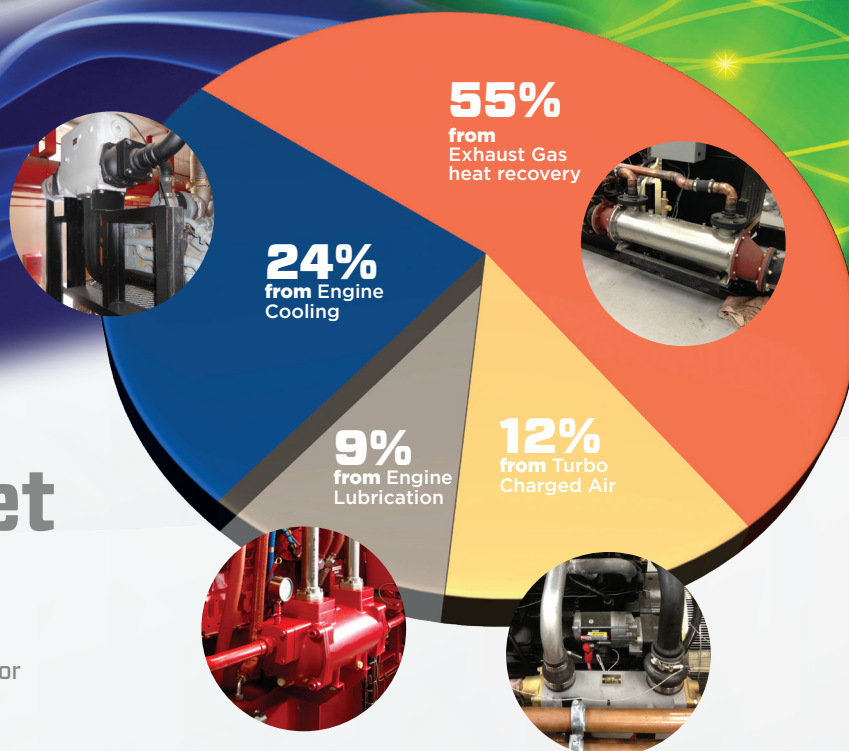
This valuable energy source can be harvested and used at no additional cost, in terms of fuel used or CO₂ generated.

And it can be used for a wide range of domestic, commercial or industrial uses, including district heating and hot water, process heating, generating electricity, or running a chiller for cooling.

Recovering waste heat from a Gen-set

By recovering waste heat energy, overall gen-set efficiency can be increased from around 30% (power only) to 80% (combined heat and power), or even more.

Bowman Heat Exchangers can recover heat from virtually every part of the engine, as shown on the adjacent chart.



BOWMAN®

A World leader in heat exchanger technology

*Association of Decentralised Energy

**Digest of United Kingdom Energy Statistics (DUKES) 2015

BOWMAN HEAT EXCHANGERS FOR GEN-SETS

A 'total solution' to heat recovery

Waste heat can be '**recovered**' from virtually every part of the engine using Bowman's 'total solution' approach to heat recovery.

55% heat recovery from **Engine Exhaust Stream**

Exhaust Gas Heat Exchangers

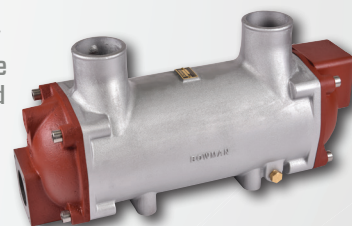
A highly efficient solution for waste heat recovery from the exhaust stream. Suitable for Biogas, Diesel and Natural Gas applications up to 1MW



12% heat recovery from **Turbo Charged Air**

Charge Air Coolers

Improves fuel efficiency and engine performance by cooling turbocharged air. Suitable for engines up to 800 kW.



24% heat recovery from **Engine Cooling**

Header Tank Heat Exchangers

Bowman's unique design combines high efficiency engine cooling, with long life durability. Suitable for engines up to 1400kW.



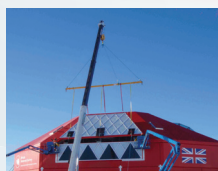
9% heat recovery from **Engine Lubrication**

Oil Coolers

Recovers valuable heat energy from the engines lubrication system. Suitable for applications up to 1900 kW.



Global heat recovery solutions



British Antarctic Survey

Bowman Exhaust Gas heat exchangers are a vital part of the CHP system that sustains life on the Halley VI research station.



Grain Drying, Finland

A 'closed loop' heat recovery system, using Bowman technology has reduced a farms fuel consumption by 18,000 litres pa.



Canadian Northwest Territories

Bowman Exhaust Gas and Charge Air Coolers have increased energy recovery by 60%, helping reduce cost per kWh by over 50%.

'Zero waste' Recycling, UK

Heat recovered from the generators cooling system is being used for space heating and hot water, plus process cleaning operations.

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