

We make waste heat valuable.

Alphabet Energy is the global leader in thermoelectric waste heat recovery products for the oil & gas industry.

History

Founded in 2009, Alphabet Energy originated from the Lawrence Berkeley National Laboratory. Alphabet Energy is backed by top-tier investors, including TPG and Schlumberger and has received defense research contracts from the US Army and the US Air Force. Alphabet Energy work in the oilfield began with Encana in 2014.

Products

With over 60 patents issued and filed, Alphabet Energy's proprietary PowerModules™ serve as the core technology for the company's waste heat recovery systems. Proven with thousands of hours in the field at well pads and gathering line compressor stations, Alphabet Energy's technologies improve operating efficiency by reducing site CAPEX & OPEX.

Power Generating Combustor (PGC™)

The first integrated Quad O compliant combustor and solid-state power generator, the PGC™ generates electricity while eliminating VOCs and produced gas. The PGC™ turns traditional flares and combustors into turnkey, power generating profit centers. The PGC™ simplifies attainment of emissions and safety qualifications, lowers site operating costs, and improves site reliability.

E1 Thermoelectric Generator (E1™)

The first industrial-scale thermoelectric generator for waste heat recovery, the E1™ generates electricity from engine exhaust at wellheads and gathering line compressor stations. The turnkey E1™ can be installed and commissioned in one day and delivers quick, easy, reliable electricity for sites without electrical grid connections.



PGC™ Power Generating Combustor



E1™ Thermoelectric Generator

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