

that a transcritical cycle heat engine could be built to produce electricity from waste heat for commercial applications, and ...

Echogen Power Systems is a team of experienced engineers working with elite service and equipment manufacturers to provide a world-class energy solution for our customers. Our People Learn about our management team members.

Echogen Power Systems is founded to develop an improved waste heat recovery system ; Our first prototype (5 kW) is completed with an absorption heat pump using carbon dioxide and a preferred secondary fluid ; 2008. A second prototype (15 kW) is designed to operate with liquid CO₂ ; 2009. A nominal 200 kW demonstration unit was designed and ...

The EPS heat engine uses industrial grade liquid CO₂ as the working fluid, which does not have practical temperature or pressure working limits.. The turbomachinery pumps the liquid CO₂ to high pressure and passes through a combination of recuperators and waste heat exchangers (without using a secondary oil loop) before entering the turbo-expander, which drives the shaft ...

Echogen improves the efficiency of these industrial processes while increasing financial returns. Because of the thermal characteristics of our working fluid, Echogen's heat engine can generate electric power more cost effectively at lower temperatures, outperforming steam technologies in performance and overall cost savings.

Today, we are a proud provider of an advanced waste heat recovery system that uses CO₂ as its working fluid, the first of its kind to provide at a commercial scale, allowing for a more compact, lighter and economical solution. We offer ...

Echogen for Oil & Gas applications. The Echogen sCO₂ cycle is ideally suited for heat recovery of gas turbine exhaust and is capable of both electrical and mechanical (i.e. shaft) power output. This allows for potential applications in all three stages of Oil & Gas operations: Upstream - offshore exploration and recovery rigs, FPSO's

ORLANDO, FL December 9th, 2014 - Echogen Power Systems,, a world leader in advanced power generation technology for waste heat recovery, today announces the commercial availability of its EPS100 heat engine system as a turnkey solution that satisfies energy demand, environmental requirements and bottom line cost savings for ...

Web: <https://www.triceratech.co.za>