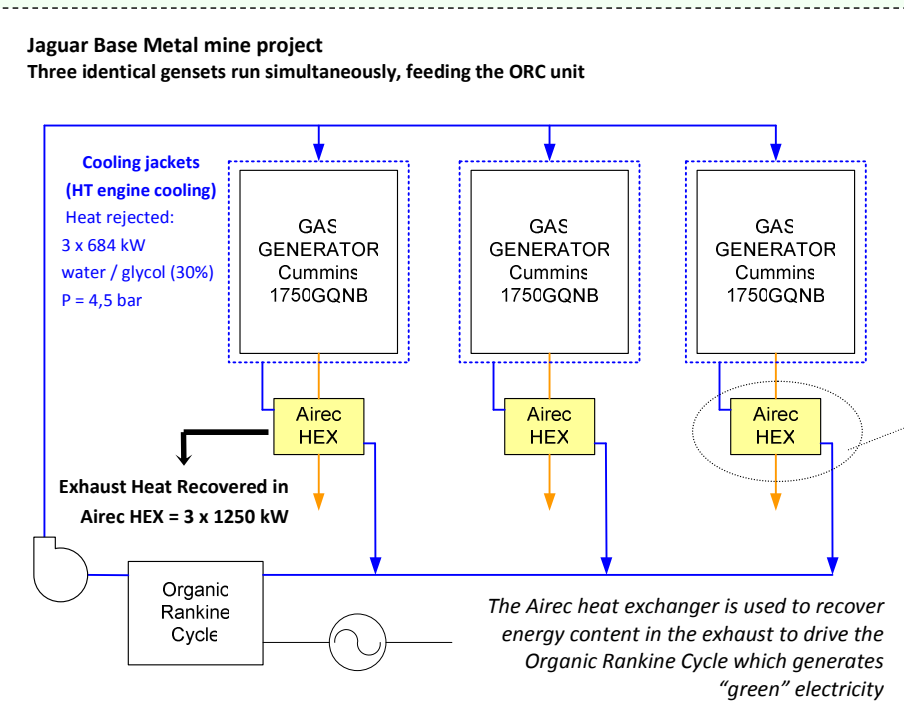


## Airec supplies the waste heat recovery system for CO<sub>2</sub> free electricity generation in Australia

Airec AB is in charge of the construction, delivery and commission of four heat exchangers that will be used in a waste heat recovery system in Australia, at the Jaguar Base Metal mine site owned by Jabiru Metal Ltd's. The electricity needs from the mine are currently met with four Cummins generators running on natural gas which release combustion gases to the atmosphere, wasting about 1.4 MW exhaust heat each.

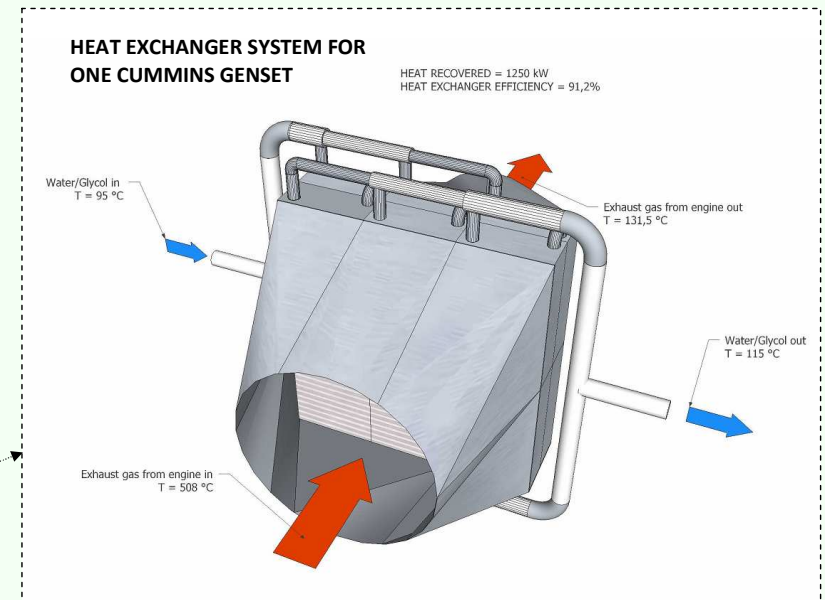
The customer is CoGen Power which has been started to design and commission waste heat-to-electricity systems for mine power supply in Western Australia. CoGen's aim is to recover over 1500MW waste heat via Airec products in the next 5 years to generate CO<sub>2</sub> free electricity.



In the Jaguar mine project the Airec heat exchangers are used to transfer the energy content in the exhaust from the four gensets to the water flowing in the cooling circuit of the engine. The heated water is used to drive an Organic Rankine Cycle (ORC) generating approximately 500 kW electricity out from heat that otherwise would be wasted.

### Outstanding performance

Airec has been selected as a key partner for this pioneering project because the extremely high efficiency of the Airec heat exchangers sets them ahead of other commercially available alternatives. In a nutshell: by increasing the heat exchanger efficiency more heat can be used to generate electricity, thus higher overall efficiency is achieved.



For this application the heat exchanger has been specifically designed to meet:

- Maximum heat recovery from exhaust gases (High efficiency > 91%)
- Low exhaust pressure drop (Manufacturer's requirements < 30 mbar)
- Compactness (dimensions are 1100 x 950 x 900 mm)

"After a world-wide survey we have chosen Airec as our exhaust gas heat exchanger partner. Their efficiency and compactness is much better compared to existing traditional designs", says CoGen president Ross Smith.