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gT- Energy Technologies Pty Ltd
A.C.N 147 983 926



gT-Energy Technologies

Installation of Organic Rankine Cycle power generator converting steam from a biomass boiler at Australian Tartaric Products Mildura

gT Energy Technologies (gTET) is an Australian company based in Melbourne. As a privately owned company it specialises in providing turn-key thermal energy solutions such as power generation from heat (renewable or waste), cogen/trigen, refrigeration, cryogenic refrigeration and others. gTET designs and manufactures Organic Rankine Cycle (ORC) power generators in Melbourne for domestic and international customers.

gTET is pleased to announce that it has been awarded a contract to locally design, manufacture and install a 600kWe Organic Rankine Cycle (ORC) power generator into Australian Tartaric Products facility in Colignan, Victoria near Mildura. The installation will convert saturated steam at 180°C produced from a new biomass boiler that uses spent grape marc as a fuel source.

Organic Rankine Cycle (ORC) power generators deploy a closed cycle system. The ORC contains a non-toxic, non-flammable, low boiling point working fluid that is pressured when the heat source is applied to the systems evaporator. The pressured fluid is expanded through a hermetically sealed turbo-alternator. The fluid is then cooled again through an air-cooled condenser before being pumped back to the evaporator. The electrical power generated is connected in parallel to the site's power via a power inverter.

The installation will supplement in excess of 60% of the Australian Tartaric Products power consumption providing a return on investment in under five years, from what has previously been a waste by-product.

Australian Tartaric Products is Australia's largest manufacturer of natural Tartaric Acid, a major ingredient in wine making, and also produces Food Grade Spirit. The facility processes considerable volumes of Grape Marc, Grape lees, centrifuge desludge by-products created from the wine making process, producing a completely natural product from material, which would otherwise go into landfill.

gTET's 600kWe ORC power generator and state of the art turbo-alternator had development support from the Ausindustry's Commercialisation Australia program.

gTET thanks Australian Tartaric Products for this business award and looks forward to successful project delivery in 2013. gTET also thanks Ausindustry for its support.

For further information on either the Australian Tartaric Products project or gTET products and services please visit www.g-tet.com

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