



Power station upgraded with Munters pre-cooler

Neerabup power station

ERM Power is a successful developer, owner and operator of power stations across Australia. ERM leads the development of six power stations, which represent approximately 5% of Australia's total power generation capacity. Biffinger Berger & Boulderstone JV and Newgen Power and Siemens reached an agreement to build a new \$75 million gas-fired power station in Neerabup, 40km north of Perth. The new gas-fired power station will have two Siemens 185MW turbines and delivers 330MW peaking power.

Effective cooling with minimum fuel consumption

ERM wanted a reputable manufacturer of quality industrial evaporative pre-coolers to ensure maximum output and minimal fuel consumption, which would maximize plant and equipment service life. A system that provided maximum cooling with minimal air resistance and no droplet carryover. They also wanted a system to cool air to the ISO 60°F (15°C) standard gas turbine output rating without any mechanical cooling needs.



The Munters solution

Munters was asked to provide an evaporative pre-cooler solution for the gas turbine generators' air intake. The unit is fitted to the main air intake louvers of the generator providing a cost-effective solution to meet cooling needs without adverse downstream effects such as pressure loss and corrosion. Water is distributed at a controlled rate through the Munters cooling media upstream of the gas turbine inlet. Inlet air passes through the media and water is evaporated to a cold vapor, chilling the air that passes to the turbine and increasing power output as well as operating efficiency.

Case study

- Neerabup power station cooling upgrade

Advantages:

- Effective cooling with Munters evaporative pre-cooler
- Cools air to ISO 60°F (15°C) standard
- Fuel consumption reduced
- Power output increased
- Operating efficiency improved

Would you like to find out if Munters has a solution for your company too? If so, please visit our website, www.munters.com

Munters reserves the right to make alterations to specifications, quantities, etc., for production or other reasons, subsequent to publication. © Munters AB, 2022