



**ausra**<sup>TM</sup>

## THE LIDDELL SOLAR THERMAL STATION

### THE AUSRA<sup>TM</sup> ADVANTAGE

#### COST-EFFECTIVE ELECTRICITY AND STEAM

- Most land-efficient solar technology
- Eliminates fuel and emissions cost risks
- On-peak energy delivery

#### RELIABLE AND ROBUST

- Commercially proven technology
- Low wind profile
- Steel-backed mirrors for long life
- Suitable for demineralized or produced water operation

#### RAPID DEPLOYMENT AND INSTALLATION

- High volume automated production and standard materials eliminate supply chain constraints
- Rapid field installation (6-18 months)

#### APPLICATION AREAS

- Power generation
- Petrochemical refining and processing
- Enhanced oil recovery
- Natural gas displacement
- Food and chemical processing
- Pulp and paper manufacturing

For More Information:

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Located in New South Wales, Ausra Pty Limited has developed and is expanding the world's first solar thermal power collector system for coal-fired power augmentation. Ausra's Compact Linear Fresnel Reflector (CLFR) technology began testing operations at the company's Liddell Solar Thermal Station in 2004, initially generating one megawatt equivalent (MW) of solar-generated steam. The solar thermal facility is located adjacent to the company's steam host, Macquarie Generation's coal-fired power station.

In 2005, Ausra started construction of its Phase II, 9-MWt solar thermal steam system (3MWe) and completed the expansion in 2008. Ausra's land-efficient, high durability solar collectors supply solar-generated steam to Macquarie Generation's 2,000-MW Liddell Power Station, displacing a portion of coal consumption for the plant's electric power. The Liddell Power Station is located near Muswellbrook, in the Hunter Valley adjacent to Ausra's solar collector facility.

### RELIABLE, COST-COMPETITIVE STEAM

Ausra's solar collectors boil water with concentrated sunshine. Mirrors track the sun, reflecting solar heat onto boiler tubes to generate steam without the costs and emissions of fossil-fired boilers. The result is a system that produces steam directly from the sun to generate clean, reliable electricity to help meet peak power demand.

### AUSRA YOUR LOW-COST ENERGY SOLUTION

Ausra's solar thermal technology can deploy quickly to provide process steam to your operations reliably and cost effectively. Ausra's space-efficient, reliable, direct solar steam generators integrate simply with conventional steam systems in retrofit and new plant designs. Our technology is a hedge against rising fuel and emissions costs and can provide an added financial benefit in upcoming carbon market scenarios. It's part of an integrated sustainability strategy for fuel and carbon market risk reduction, at prices competitive with natural gas today.

Our experienced management team, leading scientists, superior technology, and volume production capacity are ready to meet your electricity and steam needs.