



AREVA

l'avenir pour énergie



Colloque solaire thermodynamique **AREVA Renouvelables**

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AREVA Solar, offer portfolio 1 product, 3 applications



power

**Standalone Solar Thermal
and Solar-Fossil Fuel
Hybrid Power Plants**



booster

**Steam Augmentation for
Fossil-Fired, Geothermal
& Biomass Power Plants**



steam

**Solar Steam for
Industrial Processing,
including Oil Recovery**

125 Mwe Reliance Power, India



Reliance will use AREVA Solar's CLFR technology.

- ▶ **Size: 125 MWe solar thermal power project under construction**
- ▶ **Technology: AREVA Solar CLFR**
- ▶ **Location: Rajasthan, India**

Kogan Creek Solar Boost Project under construction in Australia



Tucson Electric Power: Sundt Solar Boost Project



Online: 2013

- ▶ **CLFR Solar steam augmentation project**
- ▶ **Clean solar power “boost” for Sundt’s 156 MWe dual-fueled, coal-/gas-fired Unit 4**
- ▶ **Additional 5 MWe of solar-generation; no added emissions**
- ▶ **CO₂ emissions avoidance/year (U.S. tons) when fueled by:**
 - ◆ Coal: 8,500 tons/year
 - ◆ Natural Gas: 4,600 tons/year
- ▶ **Fuel conservation with increased output**

Kimberlina Solar Thermal Power Plant



Generating high-pressure,
superheated steam

- ▶ **Kimberlina 5 MW solar thermal power plant near Bakersfield, CA**
- ▶ **First new solar thermal plant in California to be built in 20 years**
- ▶ **Demonstrated thermal performance with high availability**
- ▶ **Direct, high-pressure superheated steam generation**
- ▶ **Advanced product development facility**