

RAW MATERIAL & INGREDIENT PROCESSING



West Coast refinery reduces water consumption in drought-stricken region

INSIGHT

When a business depends on water for its operations, being located in a drought-stricken region can pose a serious threat to growth, reliability and reputation. A West Coast refinery knew it had to act quickly to reduce the amount of water it was drawing from the area water supply. So, it sought the help of Nalco Champion, a technology services provider that specializes in water- and energy-saving solutions for oil and gas refineries.

INNOVATION

Using its Best Practices Gap Analysis, Nalco Champion identified the refinery's boiler system as a potential reliability risk. An audit confirmed that poor control of the cycles of concentration was contributing to high water use. Nalco Champion installed a trial of 3D TRASAR™ Technology for Boilers,

a solution that enhances sustainability performance and operational efficiency, while protecting assets. Before this, the boiler chemistry and cycles had been maintained manually. With its continuous monitoring and immediate responses to system changes, 3D TRASAR significantly improved the boiler system's reliability and performance, and greatly reduced its water and energy use. Encouraged by such dramatic improvements, the refinery chose to install eight more 3D TRASAR units.

TECHNOLOGY

- **3D TRASAR™ Technology for Boilers**

eROISM

ANNUAL SAVINGS

WATER



38 million

gallons saved – equivalent to the annual drinking water needs of more than

131,000 people

\$456,000

in savings

ENERGY



134,949 million

BTUs of energy

\$529,000

in savings

AIR



3,796 metric tons

reduction in greenhouse gas emissions

TOTAL COST SAVINGS

**\$985
THOUSAND
ANNUALLY**