



# CANSOLV SO<sub>2</sub> Scrubbing in Refinery Applications

**By: R.W. Birnbaum**  
Sales Manager

**CANSOLV Technologies Inc.**  
400 Boul. De Maisonneuve Ouest, Suite 200  
Montreal, QC, Canada  
H3A 1L4  
Ph: +1 514 382 4411 ext 225  
Rick.birnbaum@cansolv.com



## **Abstract**

### **CANSOLV SO<sub>2</sub> Scrubbing in Refinery Applications**

Tighter regulations, an increasing spread between sweet and sour crude prices and attractive revenue opportunities for sulfur and its byproducts have led refiners to increase their use of high sulfur fuels internally and install flue gas desulfurization systems to capture SO<sub>2</sub>.

The CANSOLV SO<sub>2</sub> Scrubbing system has been in use commercially since 2002 and a total of nine units are now operating worldwide. These units capture SO<sub>2</sub> from fluid cat cracking (FCC) unit regenerator offgas, fluid coker CO Boiler offgas, lead and copper smelter offgas, sulfur plant tail gas and sulfuric acid plant tail gas.

This paper will illustrate how the CANSOLV SO<sub>2</sub> Scrubbing system can be used effectively in the refinery to control emissions and capture additional byproduct value from flue gas streams generated by the FCC, refinery process heaters, sulfur plants and spent acid regeneration units. Process flow sheet information and specific utility consumption guidelines will be provided to allow the refiner to consider how a CANSOLV SO<sub>2</sub> Scrubbing System will fit into applications at his location.