

# Igniter and Solenoid Valve System Renovation on a Tangential Boiler

Lakvijaya Power Station, Sri Lanka  
3 x 300 MW Tangential Coal-Fired Power Station  
Boiler supplied by Harbin Boiler Works  
12 Oil Burners, 20 Main Coal Burners



## Before

- Oil gun mounted solenoid valves and actuators fail regularly and caused jams during operation
- Poor access to Oil gun, solenoid valve, and flame scanner components
- Igniter system has difficulties lighting the fuel

## After

- Safe Fire's engineering and service team upgraded and relocated the solenoid valve and pneumatic system
- Safe Fire also inspected the spark rod and atomizer and found that many were not properly aligned. Each were corrected for ideal light-off position

## Results

- Solenoid valves relocated away from vibration and heat, improved performance, service life, and accessibility
- 100% cold-state light off was achieved on the oil guns during the subsequent startup
- Significant fuel savings