

# 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

- Solenoid valves and actuators mounted on the oil gun failed regularly and caused jams during operation
- Spark quality from the OEM power packs have degraded
- Igniter system has difficulties lighting the fuel

## After

- Safe Fire's engineering and service team upgraded and relocated the solenoid valve and pneumatic system
- Replaced OEM power packs with Safe Fire's S-80-02 HESI
- Adjusted spark rod and atomizer position for ideal light-off

## 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