

# Flame Detection System Renovation on Wall-fired Boiler

Rabigh, Saudi Arabia

2 x 660MW Front and Rear Oil-Fired Power Station

Boiler supplied by Dongfang Boiler Group Co., Ltd. (China)

48 Oil igniters, 48 Main oil burners



## Before

- Frequent burner flame alarms and BMS trips
- Existing Flame scanners could not maintain flame discrimination as the boiler load conditions changed
- Hot environment routinely damaged the existing flame scanners

## After

- Safe Fire's EZ-Flame was installed and demonstrated reliable flame discrimination at varying load conditions
- EZ-Flame uses 3 flame characteristics to determine flame status
- EZ-Flame Max Temp is +85°C

## Results

- Increased flame detector accuracy and reliability
- Decreased plant interruptions from flame status alarms and trips
- Lowered equipment costs and the need for frequent maintenance