

INDUSTRY SOLUTION

Power Plants and Substations

Fewer trips missed and fewer site visits: instruments, breakers and boundaries watched around the clock from the plant's existing cameras, with the control room seeing what needs attention first.

Who it is for

- Thermal, gas and hydro power stations
- Substations and switchyards
- Solar parks and wind farm sites

What you gain

- Trips and alarms acted on at once; equipment running hours on record
- Gauges and breaker lamps read without manual rounds
- Early warning of fire in coal yards, conveyors and cable galleries
- Intruders, theft and animals stopped at the boundary

WHAT IT DOES

Gauges, breaker lamps and trips

Analogue pressure and temperature gauges read with alarm ranges; breaker and panel lamps read on camera, with an alert on a trip and running time of pumps and fans.

Fire and smoke early warning

Flames and smoke spotted on camera in coal yards, on conveyors and in cable galleries - alongside, never instead of, certified fire detection.

Perimeter and switchyard

Person, vehicle and animal intrusion along long boundaries and into switchyards, by schedule; monkeys, leopards and cattle are recognised as animals rather than as people.

Theft of equipment and cable

Alerts when monitored equipment, cable drums or panels are removed or moved, and when someone loiters near stores at night.

PPE and safe work

Helmet and vest, with ear protection in turbine halls and harnesses for work at height where required; fall alerts - confirmed on site footage during the Proof of Concept.

Trucks and control room

Number-plate register for coal, ash and fuel trucks with time on site and overstay alerts; an alerts-first video wall with a standard procedure for every alert.

Where the cameras go

Area	What is watched	Licences
Control, relay and panel rooms	Breaker and panel lamps read on camera, an alert on a trip; running time of pumps and fans	Core, Machine and Gauge
Turbine hall, boilers and auxiliaries	Pressure and temperature gauges with alarm ranges; helmet, vest and ear protection; a person who falls	Core, Machine and Gauge, PPE
Coal yard, conveyors and cable galleries	Flames and smoke; entry into conveyor and gallery zones by schedule	Core, Fire and Smoke
Switchyard and boundary	Person, vehicle and animal intrusion by schedule - monkeys, leopards and cattle told apart from people	Core
Stores and cable yard	Cable drums, equipment or panels removed or moved; loitering at night	Core
Main gate	Coal, ash and fuel trucks with time on site and overstay alerts; attendance for staff and contract workers	Core, ANPR, Face Recognition, Attendance

What you see every day

- Every trip and alarm as it happens, with a snapshot of the panel
- Running hours of pumps and fans per shift
- Gauge readings with out-of-range alerts, without manual rounds
- Intrusion and theft alerts by zone and night, each with its snapshot
- Truck register and daily attendance; an alerts-first video wall in the control room

What we need on site

- Panel and breaker lamps visible to a camera, about 10 pixels per lamp or more; gauges framed with their scale
- Boundary and switchyard cameras with IR or lighting for night
- For PPE, people at least about 120 pixels tall in the picture
- A lane camera framed on the number plate at the gate
- A server sized by us for the cameras and analytics chosen, confirmed during the Proof of Concept

Licences · one-time or by subscription

Core licence

Machine and Gauge Monitoring

Fire and Smoke Early Warning

PPE Compliance

ANPR (gate lane cameras)

Attendance Management

On request, as custom analytics: digital panel-meter reading, conveyor belt spillage and misalignment, and visible steam or oil leaks. Runs on the Client's premises on standard IP cameras (RTSP / ONVIF); alerts reach the web and mobile app, WhatsApp, SMS, e-mail, Telegram or a siren.

Let us survey your site

A Proof of Concept on up to four cameras for 30 days, on your own footage.

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