Power Plants


Power Plant

'Produce energy without shut-downs caused by corrosion'

'Power plants need protection in industrial / salty environments'

'Shut-downs are very costly for power plants'

'Cooling is crucial for power plants'

WHY PROTECT POWER PLANTS' COOLING EQUIPMENT?

- Gasses are highly corrosive
- Polluted air is highly corrosive

HOW

- Specialized Blygold application protocol

BENEFITS

- Gain up to 15% cooling efficiency
- Extends the lifetime of the cooling equipment
- Prevents breakdown of the cooling equipment
- Treatment costs can be recovered in 1 year

Power Plants

A SELECTION OF REFERENCES

- Hyundai Heavy Industries
- STX Corporation
- Doosan Heavy Industries
- Wärtsila

CORROSION DEVELOPMENT IN POWER PLANTS

Continuity in the operation of power plants is becoming increasingly more important. Efficient cooling equipment is essential to create this continuity. The problem is that air-cooled heat exchangers are very vulnerable to corrosive attack from sulphuric and salty environments. Failure of the cooling equipment at power plants will cause capacity loss and even plant shut down. It is essential that the cooling elements are well protected against these high risks of corrosion and pollution.

Blygold heat exchanger protection significantly increases the reliability of cooling equipment. Lifetime extension, reduction of efficiency loss and lower maintenance frequency have convinced many power plant managers and suppliers to work with Blygold.

PRODUCE ENERGY IN AN EFFICIENT WAY

The Blygold heat exchanger protection does not have an impact on the heat transfer capacity of an installation. Through a remarkable application technique the total heat-exchanging surface is protected with a thin but dense coating layer. This means that not only will the lifetime of the heat exchangers be extended, the cooling capacity will remain intact as well. The risk of breakdowns will be much lower, and related costs can be avoided. Huge savings can easily be obtained simply by having the heat exchangers treated by a Blygold certified applicator before or after installation.

PRACTICAL EXAMPLE

	Cooler without Blygold coating	Cooler with Blygold coating
Condensation temperature	56 °C	48°C
Energy consumption	119 kW	113.4 KW
Running hours per annum (598 MW cooling capacity)	2000	1834
Energy consumption	238000 kWH	207775 kWH
ENERGY SAVINGS		13%

Contact your local Blygold applicator for extensive test reports

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YOUR LOCAL BLYGOLD APPLICATOR