

# G. N. F. COMBINED CYCLE POWER PLANT

## ACTIVITY:

Anticorrosive System

## LOCATION:

Combined cycle power plant of  
Aceca – Toledo – Spain

## FINALIZATION:

April 2009

## CONTEXT

Mechanical parts with obvious  
problems:

- Corrosion,
- Deterioration of old coatings,
- Damage to the section of  
the metal.

Corrosion caused by water at  
various levels of pH and solids  
driven by water.

## DESCRIPTION:

1º. Previous study of the  
corrosion generating agents and  
of old coatings used by "Gas  
Natural Fenosa" without  
success.

2º. Report and technical advice  
on the advanced systems  
recommended to protect  
mechanical parts against  
corrosion and erosion.



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## 3°. Demarcation of work areas:

Specific areas for further action of surface preparation, rehabilitation and areas for further anticorrosive protection with advanced coatings.

Activities performed entirely in designated areas by the plant.

4°. Advance preparation of surfaces by mechanical removal of old coatings, contaminants and corrosion.

5°. Rehabilitation of sections of metal by using ceramic-metal system.

6°. Implementation of an anticorrosive treatment with advanced coatings for the protection of pipes and metal circulation pumps.

The anti-corrosive treatment was performed by both the inside and the outside of the mechanical parts.

