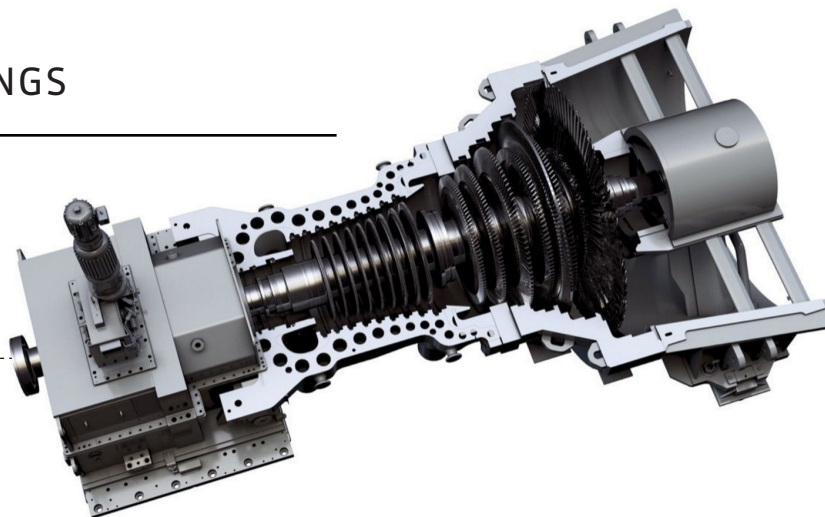


# 1. Thermoelectric Power Plant

CORRECT LUBRICATION:  
90% MAINTENANCE SAVINGS

PICTURE OF A  
STEAM TURBINE  
SHOWING GEAR BOX  
INSIDE. TURBINE  
AND GEAR BOX ARE  
LUBRICATED WITH  
THE SAME OIL



## THE PROBLEM

- PREMATURE WEAR OF THE STEAM TURBINE BEARINGS
- STOP OF THE PLANT FOR OIL CHANGE
- REPLACING THE OIL (21,000 LITERS) EVERY 2 YEARS (COST € 40.000)
- COST OF DISPOSAL EXHAUSTED OIL

## CONTROLS ANALYSIS

Following oil analysis, Controils has found that not only the particle contamination level was too high, but also the water content was. The most serious problem was in fact attributable to water that, transported by the oil, ended in gears of the speed reducer causing bad lubrication and increasing of erosion and particle content.

## LA RICAMBI UDINESE SUPPLIES

La Ricambi Udinese has selected a system of external filtering integrated to a vacuum purifier capable of selectively break down not only the particle content but also the water in suspension.

## ADVANTAGES

CUSTOMER OBTAINED A TOTAL  
SAVING OF 90% IN FOUR YEARS

THE FIRM HAS NOT HAD OTHER  
LUBRICATION PROBLEMS  
NOWADAYS

**€ 80.000**

€ 40.000 X 2 YEARS  
(REPLACING THE OIL)  
+ STOP OF THE PLANT  
+ DISPOSAL EXHAUSTED OIL

**€ 8.000**

€ 2.000 + € 6.000  
EXTERNAL FILTERING INTEGRATED  
TO A VACUUM PURIFIER