



CLEAN OIL  
BRIGHT IDEAS

# Combined Cycle Power Plant 860 MW, GE Gas Turbine

## CJC™ Application Study

Application Study  
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### CUSTOMER

**METKA BRAZI** Power Plant, Romania.

### SYSTEM

**System:** Combined Cycle Power in 2+2+1 configuration, with 860 MW power output.

2 x GE 9FB gas turbines

**Oil Type:** Texaco Regal Premium EP32

**Oil Volume:** 6,000 gallons (22,712 L)

### PROBLEM

To insure that the lube oil supply meets a minimum cleanliness level of ISO 15/12 (NAS Class 6) prior to start-up which are the requirements from GE. The oil delivered by the oil supplier was NAS Class 8).

### SOLUTION

**CJC™ Filter Separator Multi-stay PTU3 3 x 27/108 GP E2PTWY 2-sp C** was installed using **CJC™ Filter Inserts B 27/27** (12 pcs) with a filtration degree of 3 µm absolute and a flow rate of 5200 L/h.

### TEST

More than 20 oil samples were collected over a 2 month period, in different points of the lube system, and the NAS class was reduced 4 classes overall.

### RESULT

Achieving a target NAS Class 5 value in the main tank after only 4 weeks of filtration and going further in achieving a NAS Class 4 final result.



METKA BRAZI Power Plant, Romania



CJC™ Filter Separator Multi-stay PTU3 3 x 27/108 GP installed at METKA BRAZI Power Plant

### RESULT

Filtration Time	Before CJC™ Filtration Nov. 10 2010	Dec. 08 2010	After CJC™ Filtration Jan. 05 2011
Particles > 5-15 µm	56,958	8,278	3,914
Particles > 15-25 µm	9,592	1,750	822
NAS Class	8	5	4

### PARTICLE DEVELOPMENT

