

CASE STUDIES at E.ON Sweden



Värnamo	Boiler 1
Size	12 MW
Fuel	Wood chips
Consumption	28.000 t/year
Running time	5.833/year



Mounting of an AEROVIT system August 2005
 Before the boiler had to be cleaned every 6. week
 The flue gas temperature was on a clean boiler 210°C
 The manual cleaning was executed by 250°C

Evaluation of the AEROVIT systems effect
 From 28 Nov. 2005 to 28 April the boiler is running full load
 In that period the flue gas temperature increased by 30°C

Without **AEROVIT**: Manual cleaning 6 times/year
 With **AEROVIT**: Manual cleaning 1 time/year

With 1% savings on fuel consumption and increased boiler efficiency and with 60% fewer manual cleanings the result will be:

The investment DKK 273.000 is paid back after 16 months

Rate of return/year at average: 77 %

Mounting of an AEROVIT system September 2005
 Before the boiler had to be cleaned every 6. week
 The flue gas temperature was on a clean boiler 155°C
 The manual cleaning was executed by 200°C

Evaluation of the AEROVIT systems effect
 From 11 Nov. 2005 to 27 March the boiler is running full load
 In that period the flue gas temperature increased by 27°C

Without **AEROVIT**: Manual cleaning 6 times/year
 With **AEROVIT**: Manual cleaning 1 time/year

With 1% savings on fuel consumption and increased boiler efficiency with 60% fewer manual cleanings the result will be:

The investment DKK 273.000 is paid back after 16 months
Rate of return/year at average: 76 %

Värnamo	Boiler 2
Size	12 MW
Fuel	Wood chips
Consumption	22.000 t/year
Running time	5.000/year



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Rörvik
Size 6 MW
Fuel Wood Chips
Consumption 12.800 t/year
Running time 5.333/year



Mounting of an AEROVIT system August 2005

Before the boiler had to be cleaned 10 times/year
The flue gas temperature was on a clean boiler 165°C
The manual cleaning was executed by 200-210°C

Evaluation of the AEROVIT systems effect

Within 1 year the flue gas temperature increased by 10°C

Without AEROVIT: Manual cleaning 10 times/year

With AEROVIT: Manual cleaning 1 time/year

With 1% savings on fuel consumption and increased boiler efficiency and with 90% fewer manual cleanings the result will be:

The investment DKK 193.000 is paid back after 15 months

Rate of return/year at average: 83 %

Mounting of an AEROVIT system August 2004

Before the boiler had to be cleaned 9 times/year
The flue gas temperature was on a clean boiler 160°C
The manual cleaning was executed by 190°C

Evaluation of the AEROVIT systems effect

Within 1 year the flue gas temperature increased by 10°C

Without AEROVIT: Manual cleaning 9 times/year

With AEROVIT: Manual cleaning 1 time/year

With 1% savings on fuel consumption and increased boiler efficiency and with 90% fewer manual cleanings the result will be:

The investment DKK 215.000 is paid back after 17 months

Rate of return/year at average: 71 %

Älmhult

Size 5 MW
Fuel Wood Chips
Consumption 11.200 t/year
Running time 5.600t/year

Panna 1



Operating personnel by **E.ON** says:

"For our District Heating plants the AEROVIT soot blowing system has implied significant savings and advantages. It also implies that we now are completely free to clean the boilers when the weather and the personel / interest suit us".

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