



FILTRATION TECHNOLOGY PROJECT

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Filtration Questionnaire to Gas Turbine Operators

ETN Annual Workshop





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Goals of Questionnaire

Support Gas Turbine operators:

- *To Increase plant revenue*
- *To Improve production yield (i.e. Oil & Gas, Steam)*
- *To Lower labor and fuel costs*
- *To Lower component costs*
- *To Protect through Greener technology*

Through better filtration technology!



Position paper : “Gas Turbine Combustion Air Filtration”

Authors : Air filtration companies

- AAF
- Camfil Farr
- Donaldson

Technical Committee Vision

- TC3: To extend the ultimate life and repair interval for key hot section components by 30%.
- TC4: 25,000 hours of gas turbine operation without intervention.



Position paper : “Gas Turbine Combustion Air Filtration”

The primary benefits derived from enhanced filtration technology are:

- Greater machine availability (%)
- Consistent and higher power output
- Increased fuel efficiency
- Longer hot end component life
- Reduced/negate water wash process
- Improved reliability
- Lower emissions



Filtration Site Questionnaire: Questions

- ☐ What do you use your gas turbine for?
- ☐ Characterization on the operation conditions?
- ☐ Type of installed machinery
- ☐ Type of installed filtration
- ☐ Filter maintenance
- ☐ Operation experience



Filtration Questionnaire: Outcome

- Single point of reference for state-of-the-art filtration technology.
- Establish a framework of metrics to correlate best practice filtration to increase efficiency and reliability.



Implementation

Internet filled in Questionnaire:

- Position Paper
- Filtration Questionnaire

It takes 5 minutes!



Results

2 Replies



Summary

Support Gas Turbine operators:

- *To Increase plant revenue*
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- *To Lower labor and fuel costs*
- *To Lower component costs*
- *To Protect through Greener technology*

Through better INFORMATION!



WE WANT YOU!



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THANK YOU

