

Gas Turbine Materials (GT-MAT)

VTT - Finland

- **Background:**

Foreseen GT user needs: improved

- user skills and dissemination on materials aspects of GT's
- understanding of the impact of condition and life
- awareness of future developments

Main effects from the GT hot path:

- combustion + flue gas path
- blading + adjacent components

- **R&D-project 1998-2002**

- in "Materials in the Service of Energy Technology" (KESTO)
- supported by the National Technology Agency (TEKES)
- 10 user companies: power GT's and Finnish Air Force
- VTT (research inst.), two universities (TUT, HUT)

- **Objectives:**

- dissemination of materials information on hot path components
- evaluation of manufacturing/repairs of GT components
- testing of assessment methods for GT components
- improved control of maintenance cost

- **Target/research areas:**

- coatings
- joining
- materials characterisation
- NDT
- handbook (in Finnish)

Further project information:

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