

Research Project Fact Sheet

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| Title of Project | Low pollutants combustor technology programme | |
| Project Acronym | LOPOCOTEP | |
| Funding Program | FP5-GROWTH | |
| Project Identifier | G4RD-CT-2001-00447 | |
| Total Budget | 7.05 M€ | |
| Starting – Ending Date | 04/2001 – 05/2005 | |
| Consortium | CNRS (FR) DLR (DE) MTU Aero Engines (DE) ONERA (FR) QINETIQ (UK) TURBOMECA (FR) Technical University of Munich (DE) | Lund University (SW) Avio SPA (IT) University of Cambridge (UK) University of Florence (IT) Loughborough University (UK) Rolls-Royce Deutschland (DE) |
| Project Objectives | <p>The challenge of this project is for European aero-engine manufacturers to develop combustor concepts that reduce major pollutant emissions like NO_x and CO₂. This project firstly investigates the individual combustor technologies like lean premixed injection system, advanced cooling concepts and adapted diffusers. The work builds upon the experience from previous programme such as Low NO_x III, where numerical and diagnostic tools were also developed. Secondly, it looks at integration and application of these technologies into combustor designs at realistic scales and both evaluates and optimises the overall performance improvements. The co-operation at a European level between 18 partners shows the strong interest, which will also help to save cost and time. By the end of this programme the resulting low pollutant combustion technologies should enhance the global competitiveness of the European aero-engine manufacturing.</p> | |
| External References | <p>http://www.2020-horizon.com/LOPOCOTEP-Low-pollutants-combustor-technology-programme(LOPOCOTEP)-s15833.html</p> | |