

Materials Innovations for Industry and Society: Advance notice of call for proposals

High-Performance Materials for Higher Energy Efficiency and CO₂ Savings: Marked improvements in the performance of energy conversion processes

The call for proposals '**High-Performance Materials for Higher Energy Efficiency and CO₂ Savings: Marked improvements in the performance of energy conversion processes**' aims to initiate projects that significantly increase the thermomechanical and corrosion resistance of materials. Materials developments with applications in energy, engine and turbine technology are a main focus, with the objective of markedly increasing the efficiency of energy conversions as well as the life-span and safety of critical components. This should also contribute to climate protection and the reduction of fuel consumption. The proposals should be industrial collaborative projects with the participation of SMEs and research institutes; they should offer improvements and/or further developments of high-performance materials along the value-added chain – from production right up to processing. It should be possible to incorporate simulation processes in the projects, with the special aim of making realistic life cycle predictions for components.

On 28 February 2007, a meeting of experts on the subject of "High-Performance Materials for Higher Energy Efficiency and CO₂ Savings" was conducted at the BMBF. The call will presumably be published at the end of 2007 on the basis of the insights gained at this meeting.