

OBJECTIVES OF COMBUSTOR DEVELOPMENT(1)

Efficiency

- **Effects of increased pressure and TIT**

Combustor technology

- **Refinement of established combustion concepts**
- **‘New’ combustion concepts: FLOX, COSTAIR, ...**
- **Catalytic combustion**
- **New cooling concepts**

Reliability

- **Thermoacoustic instabilities**
- **Preignition, flashback, LBO**
- **Quality of fuels**

OBJECTIVES OF COMBUSTOR DEVELOPMENT(2)

Alternative Fuels

- **Biogas gasification, Biofuels (methanol)**
- **Fuels (e.g. hydrogen) from renewable sources**
- **‘New fuels’ (...)**

Costs (development of engineering tools for design of new products)

- **Advanced Diagnostics**
- **Advanced Codes/numerical methods (efficiency, accuracy)**
- **Databases**

Emissions

- **NO_x, CO**
- **Soot**
- **‘New emissions’ (e.g. SO₃)**