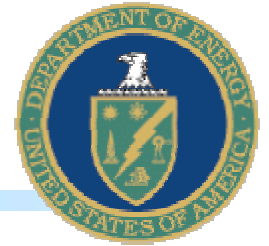


# Solar Turbines

## Advanced Microturbine Program



- DOE Funding: \$4.5 M over 3 years
- Partners: Allegheny Ludlum, ORNL, Capstone Turbine, Elliott Power Systems, UTRC
- Approach: Update existing Primary Surface Recuperator (PSR) Capability
  - Increase the turbine exhaust temperature capability from 649° to 732°C
  - Alloy modification to improve strength, creep strength and oxidation resistance
  - Strong focus on cost containment and reduction
    - Recuperators, one third the cost of a microturbine system
  - Improve key high cost manufacturing processes used in the manufacturer of microturbine recuperators