

'FOIL BEARING SUPPORTED HIGH TEMPERATURE CATHODE / ANODE RECYCLE BLOWER' ...for Large MWe SOFC Power Plants

- Phase I successfully demonstrated the Cathode Recycle Blower design for a 5 Megawatt SOFC power plant.
- Phase II will enhance the Cathode Recycle Blower design for Anode Recycle. The final product will be a <u>Dual Use Cathode/Anode Recycle Blower</u>.

Blower Features

- High temperature capable (up to 850°C)
- ✓ Design life (>40,000 hrs)
- ✓ Dual Use (Cathode Recycle or Anode Recycle) ✓ Low noise (<70 dBa)
- Energy efficient
- ✓ Oil free
- Maintenance free

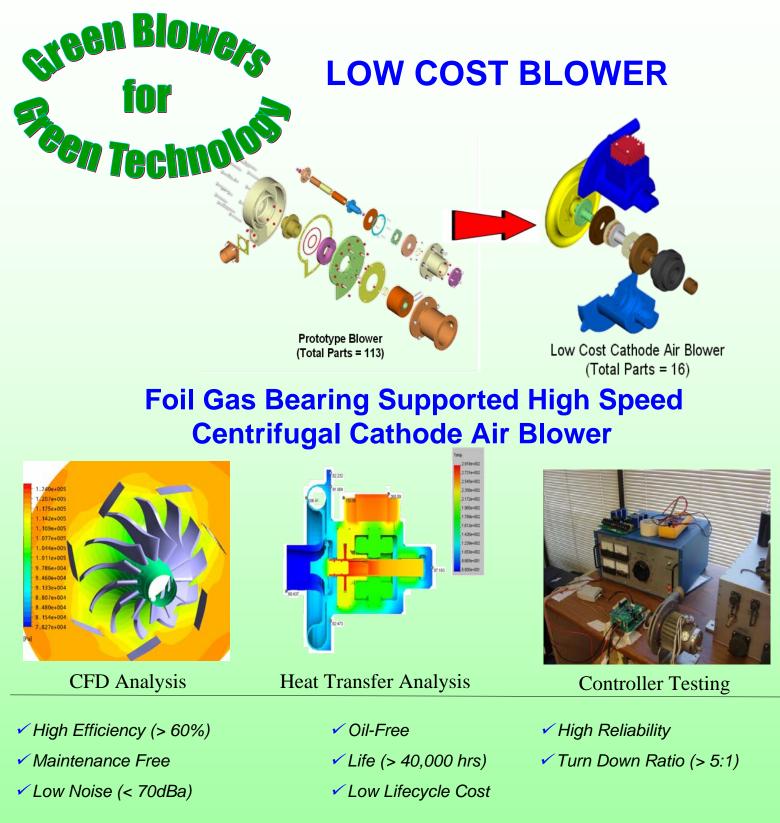


- ✓ Scalable
- Low life cycle cost



Journal Bearing Test Rig

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R&D Dynamics **Low Cost Cathode Air Blowers** for small fuel cells are the most energy efficient and reliable. Target cost of the blower is ~ \$100 for a production of greater than 50,000 units per year.

A prototype blower is planned to be tested in year 2010 in an actual SOFC system.



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