

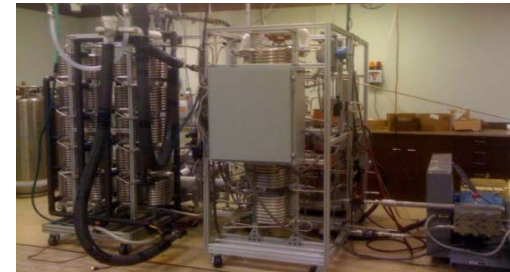


ECHOGEN
power systems

Demonstration Status & Product Development

ECHOGEN Waste Heat Engine Status

- 5kW lab scale system built and demonstrated
- 15kW pilot scale system built
 - Initial system demonstrations complete
 - TurboAlternator initial testing underway
 - Positive net power in August 2009
- 250kW demonstration system field test
 - Installation @ Utility site – 01/10
 - Shakedown and control system test 1Q10
 - Installation at launch customer site 4Q10
 - Fully automated, unattended operation
 - Long-term durability demonstration



250kW Demonstration Thermal Engine



250kW Demonstration Thermal Engine



ECHOGEN Waste Heat Engine Status

- **Economic and environmental benefits of WHR clear**
- **ECHOGEN ScCO₂ cycle offers several advantages over competing technologies**
 - Excellent efficiency
 - Thermally stable, safe working fluid
 - Simplified application integration
- Commercial availability of 250kW system by 3Q10
- Scale up to 4->8MW system underway with demonstration expected in early 2011.