JUPITER OXYGEN CORPORATION

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Clean Energy Technology Transfer in the Asia Pacific

Jupiter's Oxy-Fuel Combustion Technology Option for Ultra Low Emission Coal Fired Power Plants

UNFCCC, November 2005

Montréal, Canada

Oxy-Fuel Combustion Development in Industrial Furnaces

- **Significant Fuel Savings**
- **Carbon and NO_x Reduction at Combustion**
- **Commercially Operated since 1997**
- **Patented Technology**

Oxy-Fuel Combustion Technology Transfers to Other Uses

- **Cement Manufacturing**
- **Waste Destruction**
- **Energy Generation from Coal Fired Power Plants**

Clean Coal Power Plants

Environmental Results:

- 95%+ Capture of CO_2
- 99%+ Removal of Particulate in PM 2.5
- 99%+ SO_x Removal
- 90%+ Mercury Capture
- NO_x after Combustion of .05 lbs./ MMBtu

Jupiter's Technology Options & Credits

- **Significant energy savings and emissions offsets to trade from the application of Jupiter's technology in industrial furnaces**
- **Certified emission reduction credits for Oxy-Fuel Technology implementation within CDM-Projects**
- **Successful capture of CO_2 from coal combustion: Challenge for the retrofit of the existing coal power fleet**
- **Oxy-Fuel Combustion Technology as chance for local markets**

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Visionary Innovation | Scientific Approach | Operational Experience

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