View from the Bridge

Tana Utley
Chief Technology Officer
Vice President
Caterpillar Inc.

DoE DEER Conference
Dearborn, MI
August 4, 2008
Caterpillar’s Legacy Platform

1893
Diesel Patent

1931
Track Type Tractor

1955
Turbo Diesel

2004
ACERT®

What has kept it alive?

???
Caterpillar’s Legacy Platform

- Capital Goods
- Values-based Decisions
- Emissions

1893: Diesel Patent
1931: Track Type Tractor
1955: Turbo Diesel
2004: ACERT®

Our Customers
Progress

✓ Turbo Technology
✓ Waste Heat Recovery
✓ Value of Advanced Combustion
✓ Efficient Aftertreatment

✓ Knowledge
Progress

An investment in knowledge pays the best interest.

Ben Franklin
Efficiency and Emissions Progress

- **Bold Goal**: Near Zero

- **Thermal Efficiency**: 2020

- **Emissions**: 2030

- **Efficiency**: 50
Systems Perspective
Collaboration is Key

DOE Cooperative Research

ETI Cooperative Research

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Caterpillar Non Confidential
Once you have glimpsed the world as it might be, it is impossible to live anymore complacent in the world as it is.