

# Emission Reduction and Carbon Sequestration by Installing Turbochargers in Fleet Buses in China

## Turbocharger Project in China

**C TRADE** will install turbochargers to fleet buses in China, to demonstrate 25% fuel savings and 60% emissions reductions.

An initial pilot feasibility study was completed in 2001 to install and test Advanced Turbo Chargers (ATC) in 250 highway fleet buses by the Taiwan Environmental Protection Agency in Taipei, Taiwan. After the completion of this initial feasibility study, a balance of 88 ATC have been stored “on the shelf” in Taipei, Taiwan.

**C TRADE** will complete installation of these Advance Turbo Chargers in fleet buses and trucks in Taipei, Taiwan, and Ningbo, China in September 2006. It is projected each bus will have an average daily fuel savings rate of 27 liters, a 20% reduction.

This project will demonstrate carbon dioxide (CO<sub>2</sub>) emission reductions and fuel efficiency achieved by the installation of 50 Turbochargers onto a fleet of buses.

- Reduce fuel consumption by 25%  
(CO<sub>2</sub> reductions = 1,800Tons/Year)
- Reduce CO & THC emissions by 60%  
(CO<sub>2</sub> reductions = 4,500 Tons/Year)
- Reduce NOx and particulates emissions by 40 %

## C TRADE International Carbon Sequestration & Renewable Energy Experience

C TRADE Project	Funding	Location	Year
• Turbocharger installation in Fleet Buses	IUEP	Taiwan/China	2006
• Biogas to Energy from chicken and pig farm	CTRADE	Philippines	2006
• Hybrid wind-diesel for Rural electrification	GEF	Eritrea	2005
• Hybrid Wind-Solar for Rural Electrification	USAEP	Philippines	2004
• Hybrid Wind-Solar for Rural Electrification	USAEP	Sri Lanka	2003
• 5 MW landfill methane gas to energy	TENAGA	Malaysia	2002
• Carbon Sequestration by Sustainable Forestry	IUEP	Argentina	2002
• Microturbine Technology	USAID	Maldives/India	2001
• Forestry Carbon Sequestration	IUEP	Paraguay	2000



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## What is C TRADE?

**C TRADE** is an international developer of renewable energy projects using solar, wind, biogas and other clean technologies to displace the use of fossil fuels, and develop carbon sequestration credits.

**C TRADE** helps fund and develop projects in exchange for GHG emission reductions or carbon sequestration credits.

**C TRADE** facilitates the registration and certification of carbon sequestration credits called Certified Emission Reductions (CER), including design, monitoring, and verification.

Carbon credits would have no value for it to be traded or sold unless they are properly registered and certified.

**C TRADE** has extensive experience with development of carbon sequestration and renewable energy projects in Argentina, China, Eritrea, India, Indonesia, Malaysia, Maldives, Paraguay, Philippines, Sri Lanka, Jordan, Thailand, Taiwan and USA.