



National Idling Reduction Planning Conference

May 17 - 19, 2004

1

National Idling Reduction Planning Conference

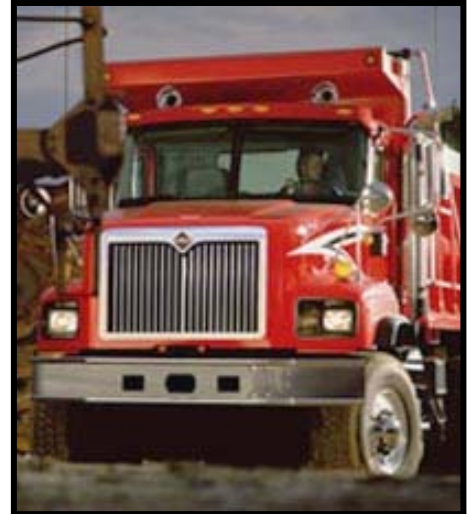
May 17, 2004

Phil Christman
Vice President, Product Creation
International Truck and Engine Corporation



National Idling Reduction Planning Conference

May 17 - 19, 2004





Why do trucks idle?

- Perform Mission (Operate PTO and other equipment)
- Comfort (HVAC)
- Convenience (Accessories)
- Security
- Cold start
- Mask out noise while sleeping
- Habit and Perception (Right thing to do for diesel engines)



What do we currently offer?

- Programmable Auto Shut Off
- Start – Stop System
- Shore Power (Accessories)
- Prep Vehicle for Aftermarket Installations



Why aren't there more trucks with Idle Reduction Systems?

- Fuel prices historically low or will come back down
- Customers require 1-2 year payback
- Customers want proof of ROI in their **specific** application or business
- Aggressive technology adopting fleets don't get ROI they demand
- Systems not OEM integrated



Why aren't there more trucks with Idle Reduction Systems?

- Driver acceptance and use of systems
- Additional weight
- Expertise to diagnose and fix problems not always readily available
- Lack of awareness of systems



Current Research and Development

- Improving cab insulation
- Full system “shore power” (HVAC and accessories)
- Integrated APU’s that work in conjunction with shore power
- Available in 1-2 years



Current Research and Development

Program Activity with DOE

- Idle Reduction Demonstration
- Fuel Cell APU
- HEV Start – Stop System



What needs to be done?

- Focus on EPA 2007 / 2010 for emissions benefits
- **Line Haul**
 - Focus on fuel savings (ROI)
 - Systems must be improved and integrated
 - Variety of solutions must be available
 - 500 – 2500 idle hours equates to systems ranging in price from \$1000 - \$5000



What needs to be done?

- **Non Line Haul**
 - Unnecessary idling minutes / day
 - Difficult to justify benefits
 - Some Line Haul solutions may be applicable
 - Change driver behaviors
 - awareness / education / good corporate citizen



What needs to be done?

- Need Government (federal and state) and Industry cooperation, coordination, and funding to accelerate development and use.
- A lot has been done in the last 1-2 years.
- Commitment and effort needs to continue