

OUTDOOR POWER EQUIPMENT INSTITUTE

The International Association of Forestry, Utility, Landscape and Lawn & Garden Equipment Manufacturers.

Kris Kiser

Executive Vice President



• OPEI is a recognized Standards **Development Organization for** the American National Standards Institute (ANSI) and active internationally through the International Standards Organization (ISO) in the development of safety standards.

Legacy Equipment 250-300 Million Pieces

Commercial & Consumer

- Utility Vehicles Engines
- Garden Tractors Generators
- Mowers
- Chippers
- Shredders
- Chainsaws

- o Tillers
- o Trimmers
- o Snow Throwers
- Leaf Blowers

OPEI Membership

 \circ Honda Briggs & Stratton
 John Deere \circ Toro Echo/Shindaiwa • Techtronic • Caterpillar o Textron Husqvarna

- o Kohler
- Kawasaki
- STIHL
- o Club Car
- Black & Decker
- Kubota Tractor
- Suzuki

Current Power Sources

Gasoline
Propane
CNG
Diesel
Battery

Electric
Solar
Flex Fuel
Gasoline-Electric Hybrids

AIISAFE

Alliance For Safe Alternative Fuels Environment

- Outdoor Power
 Equipment Institute
- Motorcycle Industry Council/Specialty Vehicle Institute of America (ATVs)
- National Marine Manufacturers Association
- The American Motorcyclist Association

- Engine Manufacturers Association
- International Snowmobile Manufacturers Association
- Alliance of Automobile Manufacturers
- Association of International Manufacturers

Environmental Protection Agency

 Emissions and Evaporative Regulatory Scheme
 900 Engine Families
 2008 Phase III
 Industry Request for E-10 Certification Fuel/Handheld

DOE Test Results

Mid-Level Ethanol Blends
Results October 2008
28 Engines Tested

DOE Findings

 Exhaust temperatures rise significantly – risk operator burns, fires and severe damage to product.

 Fuel leak risks and potential fires

 resulting from alcohol's severe degradation of fuel hoses, tanks and other rubber and plastic components.

DOE Findings

 O Unintentional clutch engagement caused by higher idle speeds – in the idle position – handheld.

 Failure of emergency generators in a crisis – reliability and safe performance is critical to users.

EISA Implementation

Challenges

- E-10 Blend Wall
- Fraud/Mistake
- Confusion
- Blender Pumps
- Mis-fueling

Consumer Products Companies

Safety
Economic Loss
Warranty Protection
Lawsuit Exposure