FUELING ECONOMIC GROWTH & ENERGY-EFFICIENCY – CLEAN DIESEL TECHNOLOGY

Facts from ***Diesel Technology Forum***

America's economy runs on diesel power. Because of the unique combination of power, energy-efficiency, reliability, and durability, diesel engines have been the cornerstone of key sectors of the U.S. economy – transportation, manufacturing, mining and farming – for over half a century. Thanks to continuous improvement, the new generation of clean diesel technology is now in place to move this country forward. From earthmoving to e-commerce, clean diesel powers the world.

DIESEL ENGINES POWER THE U.S. ECONOMY

- The industrial and agriculture sectors account for approximately 25 percent of U.S. GDP ($2.5 trillion). Virtually all equipment used to mine, harvest, and transport these raw materials and finished products are diesel-powered.
- Trade and transportation add more than $2 trillion to the U.S. GDP, all of which relies on moving products by diesel-powered trucks, rail and marine transportation.
- More than 90 percent of the world's global trade is diesel-powered, when measured in tons per kilometer.

"If you told me in the mid-1990s that we could put the words 'clean' and 'diesel' together I would say you are completely out of your mind. Yet here we are today to celebrate 10 years of clean diesel effort."

- **Margo Oge**, Director of the EPA Office of Transportation and Air Quality, *at an October 2010 Diesel Technology Forum press conference ("Clean Diesel, Upcoming GHG Standards Topics at Washington, D.C., Event")*

DIESEL POWER IS RELIABLE, EFFICIENT AND PROVEN

- More than 30 percent of U.S. consumers choose a diesel option if offered when buying a new car. Light-duty diesel vehicles are 20-40 percent more fuel efficient than their gasoline counterparts.
- Approximately 1.15 million stationary diesel engines are installed at hospitals, data centers, airports and other service providers across the country, a large majority of which are diesel-powered emergency units since they are uniquely capable of providing full power within ten seconds of an outage. Seventy-five percent of U.S. small business owners rate a power outage as a top threat to their business.
- Over 86 percent of passenger trips on public transportation were on buses (53 percent) and heavy rail (33.7 percent), which are predominantly powered by diesel fuel (70 percent and 90 percent respectively).

MILLIONS OF AMERICAN JOBS DEPEND ON CLEAN DIESEL TECHNOLOGY

- Approximately 20 million people are employed by mining, construction, agricultural and other goods-producing industries which rely on diesel-powered equipment.
- Diesel-powered vehicles enable the trade and transportation sector, the largest service sub-sector employer which accounts for over 24 million jobs.
- New diesel car, truck and equipment manufacturing facilities are being built or were recently opened in AL, AR, IN, NJ, PA, SC, TN and TX. Every state in the nation employs people to manufacture, sell and service diesel vehicles, equipment and fuels.

Diesel, Cleaner, Is Set to Make a Comeback

- Nov 17, 2010 - ***The New York Times***

With the additional pressures of climate change and the hunt for ways to reduce carbon dioxide emissions…some enthusiasts are looking to diesel-powered cars as a greener alternative to gasoline cars, as well as an efficient, high-performance alternative to hybrids.

THE DIESEL INDUSTRY IS CRITICAL TO THE CLEAN ENERGY ECONOMY

- According to the American Public Transportation Association, transit agency orders for diesel hybrid electric buses are three times greater than those for compressed natural gas. Diesel hybrid buses are 43 percent more fuel-efficient and have 42 percent lower maintenance costs than CNG buses.
- According to the Energy Information Agency, diesel cars emit 18 percent less GHGs than vehicles running on E10 and in real-world driving situations, may exceed the fuel economy of hybrid vehicles.
- Emissions from today's diesel trucks and buses are near zero thanks to more efficient engines, more effective emissions control technology and the nationwide availability of ultra-low sulfur diesel fuel. Similar technology will be introduced in off-road construction and agricultural equipment between 2011 and 2014.
- The percentage of fuel stations carrying ultra-low sulfur diesel fuel has increased from 35 percent in 1997 to 52 percent in 2007. Renewable diesel fuels which can drastically reduce emissions and be transported in the existing distribution infrastructure are now being commercially produced in the U.S.

"The emissions are almost too low to be measured. In some cities the air coming out of the exhaust system is cleaner than the air going in."

- **Philip Fry**, general manager for CTTransit, *praising the agency's new biodiesel buses ("Stamford to roll out articulated buses in February, ease overcrowding")* January 13, 2011 - ***Norwalk Citizen (RI)***