



We're investing in five technical pathways for vehicles



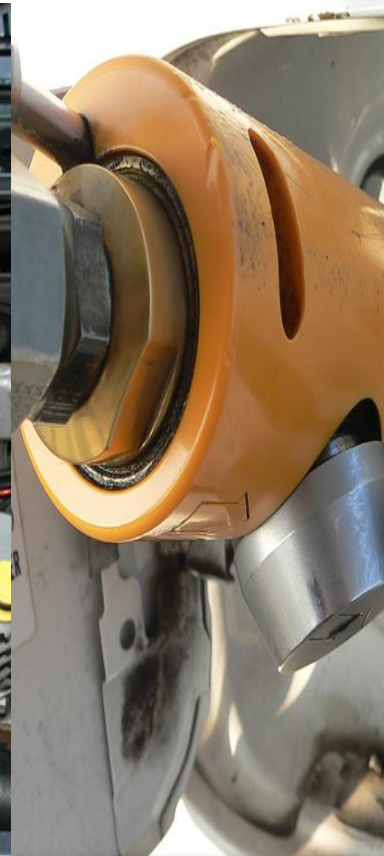
Electric vehicles



Advanced biofuels



Advanced ICEs



Natural gas



Hydrogen fuel cells

The first **Clean Energy Ministerial** (July 19-20, Washington, D.C.) brought together ministers and stakeholders from more than 20 countries to launch nearly a dozen initiatives that will accelerate the world's transition to clean energy technologies.

>70% of global GDP

> 80% of global GHG emissions



Clean Energy Ministerial initiatives

1. Energy Efficiency Challenge

- **Super-efficient appliances**
United States
- **Smart grid**
Italy, Korea, United States
- **Buildings and industry**
United States and Japan
- **Electric vehicles**
United States and China



2. Clean Energy Supply

- **Solar and wind**
Denmark, Germany and Spain
- **Carbon capture, use and storage**
United Kingdom and Australia
- **Hydropower**
Brazil, Mexico, France and Norway
- **Bioenergy**
Brazil, Italy and Sweden



3. Energy Access

- **Solar LEDs**
United States and Italy



4. Women in Energy

- *United States*

U.S.-China clean energy cooperation

- Clean Energy Research Center
 - Electric Vehicles Initiative
 - Shale Gas Partnership
- Energy Efficiency Action Plan
 - 21st Century Coal
- Renewable Energy Partnership
 - Capacity Building for GHG Data Collection

