

## PB2013105508

Predictive Eco-Cruise Control (ECC) System: Model Development, Modeling, and Potential Benefits. Department of Transportation, Washington, DC. Research & Innovative Technology Administration (RITA).

2013, 93p

### Related Categories/Subcategories:

68A Air Pollution & Control  
85H Road Transportation  
81J Reciprocation & Rotating Combustion Engines  
97K Fuels

**Keywords:** Fuel consumption, Motor vehicle engines, Air quality.

## PB2013106860

Transitions to Alternative Vehicles and Fuels. National Research Council, Washington, DC. Div. of Engineering and Physical Sciences. 2013, 394p

### Related Categories/Subcategories:

68A Air pollution & Control  
85H Road Transportation  
97K Fuels

**Keywords:** Alternative Fuels, Vehicles, Environmental impacts.

## DE20131067312

Vehicles Technologies' Fact of the Week 2012. Oak Ridge National Lab, TN.

2013, 150p

### Related Categories/subcategories

85H Road Transportation  
97B Energy Use, Supply, & Demand  
97K Fuels

**Keywords:** Motor vehicles, Technology assessment, Fuel economy.

## DE20131082102

Light-Duty Drive Cycle Simulations of Diesel Engine-Out Exhaust Properties for an RCCI-Enabled Vehicle.

Department of Energy, Washington, DC. 2013, 11p

### Related Categories/Subcategories

68A Air Pollution & Control  
81J Reciprocation & Rotating Combustion Engines  
85H Road Transportation  
97K Fuels

**Keywords:** Diesel engines, Exhaust gases, Ignition.

## Automotive Fuel Efficiency



## PB2013110008

Tracking Costs of Alternatively Fueled Buses in Florida: Phase II, Summary Report.

2013, 1p

Department of Transportation, Washington, DC. Research & Innovative Technology Administration (RITA).

### Related Categories/subcategories

43G Transportation  
85H Road Transportation  
97K Fuels

**Keywords:** Alternative fuels, Buses, Costs.

## PB2013110547

Review of the Research Program of the U.S. Drive Partnership. Fourth Report.

National Academy of Sciences, Washington, DC. 2013, 200p

### Related Categories/subcategories

43G Transportation  
85H Road Transportation  
97K Fuels

**Keywords:** Research program, Partnership, Consumers.

## Newsletter

### National Technical Reports Library

**Purpose:** To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

**Director:** Bruce Borzino

**Associate Director for Product Management & Acquisition:** Don Hagen

**Manager, Product & Program Management:** Wayne Strickland

**Technical Information Specialist:** Greg Guthrie

**508 & Accessibility:** William H Joseph

**Design & Layout:** Brian Congdon

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**PB2013110469**

Connected Vehicle Assessment: Vehicle Electrification and the Smart Grid. The Supporting Role of Safety and Mobility Services.

Intelligent Transportation Society of America, Washington, DC.

2013, 55p

**Related Categories/subcategories**

81B Electric & Ion Propulsion

85D Transportation Safety

85H-Road Transportation

97K Fuels

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Department of Energy, Washington, DC.

2013, 13p

**Related Categories/Subcategories**

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85H Road Transportation

97K Fuels

**Keywords:** Exhaust gases, Motor vehicles, Ethanol.

**DE20131083739**

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Department of Energy, Washington, DC

2013, 27p

**Related Categories/Subcategories**

68A Air Pollution & Control

85H Road Transportation

97B Energy Use, Supply, & Demand

97K Fuels

**Keywords:** Ethanol fuels, fuel economy, Vehicles.

**PB2013111198**

Effects of Vehicle Fuel Economy, Distance Travelled, and Vehicle Load on the Amount of Fuel Used for Personal Transportation: 1970-2010.

Federal Motor Carrier Safety Administration, Washington, DC.

2013, 11p

**Related Categories/subcategories**

85H Road Transportation

97B Energy Use, Supply, & Demand

97K Fuels

**Keywords:** Fuel economy, Trip distance, Personal Transportation.

**DE20131087824**

Vehicle Technologies Program Government Performance and Results Act (GPRA) Report for Fiscal Year 2014.

Argonne National Lab., IL.

2013, 50p

**Related Categories/Subcategories**

85H Road Transportation

97G Policies, Regulations, & Studies

97K Fuels

**Keywords:** Vehicles, Technology assessment, Electric batteries.

**PB2013105508**

Predictive Eco-Cruise Control (ECC) System: Model Development, Modeling, and Potential Benefits.

Virginia Tech Transportation Inst., Blacksburg, VA.

2013, 93p

**Related Categories/Subcategories**

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2013, 249p

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68A (Air Pollution & Control)

**Keywords:** Alternative fuels, Vehicles, Environmental impacts.

**PB2013110008**

Tracking Costs of Alternatively Fueled Buses in Florida: Phase II, Summary Report.

Center for Urban Transportation Research, Tampa, FL. National Center for Transit Research.

2013, 1p

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85H (Road Transportation)

43G (Transportation)

**Keywords:** Alternative fuels, Buses, Costs, Data collection.

**FEDERAL LABORATORY CONSORTIUM FOR TECHNOLOGY TRANSFER**

**FLC** *advancing federal research and technology*

The Federal Laboratory Consortium for Technology Transfer (FLC) and the National Technical Information Service (NTIS) continuously collaborate on the process of Federal Technology Transfer.



The FLC is the nationwide network of federal laboratories that provides the forum to develop strategies and opportunities for linking laboratory mission technologies and expertise with the marketplace. The FLC consists of more than 250 federal laboratories.

As an agency of the U.S. Department of Commerce, the NTIS mission is to provide for the acquisition, archiving and dissemination of technological, scientific, and engineering information. Much of this permanent repository of information is the result of research conducted by federal laboratories that are members of the FLC. The collaborative effort of the FLC and NTIS ensures the perpetual availability of this vital research to American businesses and industries.

[www.federallabs.org](http://www.federallabs.org)

**PB2013110469**

Connected Vehicle Assessment: Vehicle Electrification and the Smart Grid. The Supporting Role of Safety and Mobility Services.

Intelligent Transportation Society of America, Washington, DC.

2013, 55p

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85D (Transportation Safety)

81B (Electric & Ion Propulsion)

97K (Fuels)

**Keywords:** Electric powered vehicles, Assessments, Electric batteries.

**PB2013110547**

Review of the Research Program of the U.S. Drive Partnership. Fourth Report.

National Academy of Sciences, Washington, DC.

2013, 200p

**Related Categories/Subcategories**

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97K (Fuels)

43G (Transportation)

**Keywords:** Research program, Partnership, Consumers.

**PB2013111198**

Effects of Vehicle Fuel Economy, Distance Travelled, and Vehicle Load on the Amount of Fuel Used for Personal Transportation: 1970-2010.

Michigan Univ., Ann Arbor. Transportation Research Inst.

2013, 11p

**Related Categories/Subcategories**

97B (Energy Use, Supply, & Demand)

97K (Fuels)

85H (Road Transportation)

**Keywords:** Fuel economy, Trip distance, Fuels.

**Key to Database Fields Used**

The following NTIS database fields are used in this short listing of recently acquired technical reports.

- **NTIS Order Number**
- **Title**
- **Source**
- **Report Year, Page Count**
- **Report Number/ISBN13** (if available)
- **Related Categories/Sub-categories** (where the document is also indexed)
- **Keywords**

**RSS Feeds** are available in your choice of NTIS Subject Category. For information use the RSS link on the NTIS Homepage and look for the Category RSS Feeds button.



# NTRL Increases Access to Federal S&T Reports

NTIS has launched greater access to federally funded science & technology information and reports. Starting in October 2014, U.S. citizens have free access to all electronically-available documents in the NTIS collection.

Currently there are more than 850,000 documents digitized for free public access. For the first time, Individuals have the option to subscribe to the NTRL in order to benefit from the Premium features of the database, such as advanced search, more free downloads, and digitization-on-demand (NTRL Premium Institutional).

Please feel free to contact me if you have any questions.

**Greg Guthrie**, Program Manager  
National Technical Reports Library (NTRL)

gguthrie@ntis.gov  
(703)-605-6344

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Type of Access	Open	Password	Password	IP
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Advanced	-	-	✓	✓
Filter Results	-	-	✓	✓
Email Results	-	-	✓	✓
<b>DATA PRODUCTS</b>				
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Linked Research Data on DVD/CD	-	Purchase at NTIS WebStore	Purchase at NTIS WebStore	Free
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Full Text PDF Display	-	✓	✓	✓
Limit Per Session	-	10	40	40
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Post Document's Comments	-	-	✓	✓ (Available when creating an account within the Institution)
<b>PERSONALIZATION</b>				
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Save Favorite Documents	-	-	✓	✓ (Available when creating an account within the Institution)
Email Favorite Documents Per Session	-	-	✓	✓
<b>EXTERNAL SYSTEMS</b>				
EndNote	-	-	✓	✓
<b>DIGITAL-ON-DEMAND</b>				
User Requests	-	-	-	✓ (Mediated: Limit of 5 per week)
Administrator Tool	-	-	-	✓
<b>INSTITUTION ACCESS</b>				
IP Based	-	-	-	✓
Branded Site	-	-	-	✓
<b>REPORTING</b>				
Administrator Usage Statistics	-	-	-	✓
<b>TRIAL ACCOUNTS</b>				
10-day Trial Period	-	-	-	✓

# NTRL Frequently Asked Questions

## General

### Q. Whom should I contact with any issues related to NTRL?

A. You need to contact NTRL Help Desk at [NTRLhelpdesk@ntis.gov](mailto:NTRLhelpdesk@ntis.gov) with any questions regarding NTRL product services.

### Q. What are the different NTRL subscriptions?

A. Searching for technical information in NTRL is free. To access advanced features and other premium services, NTRL provides 3 different types of subscription: Public, Premium Individual and Premium Institutional. Please take a look at the [functionality matrix](#) for comparison of different subscriptions.

### Q. What are the benefits of premium individual over public registered user?

A. Premium individuals have access to lot of features compared to the public registered users. The most important ones being advance search, personalization and social networking.

### Q. Where can I find the pricing for NTRL premium subscription?

A. Please check the following link [NTRL Premium Pricing](#).

### Q. Where can I find the premium institutional service order form?

A. Please check the following link [NTRL Premium Institutional Service Order form](#).

### Q. Where can I find the premium individual service order form?

A. Please check the following link [NTRL Premium Individual Service Order form](#).

## Login

### Q. I have successfully created an account but I cannot login?

A. Many users are confused between NTRL and NTIS accounts. NTRL and NTIS are different web applications and they have different logins. Go to [login](#) and click “Create a Public Access account” to create an NTRL account.

### Q. I have created an account in NTRL. I have never received activation code in email?

A. There can be multiple reasons for this behavior. In reality this depends on email exchange servers. Sometimes email servers deliver email messages with a delay, so you might have to wait for some time before you receive the email. Some email servers might see activation email as a SPAM email and the email goes in SPAM folder. Check your spam folder for email. We have tested the account creation with major email servers like gmail, yahoo etc. The emails were delivered right away. We found that there were issues with Hotmail/Windows Live users.

### Q. I don't remember my username/password?

A. If you don't remember your username/password, you can use the following link [Need Help?](#). This link is also available below the Sign In button of the NTRL login page. It asks simple questions related to your account and you should be able to recover username/password. This also can be used to reset password.

## Digital on Demand

### Q. Whom should I contact with questions specific to “Digital on Demand”?

A. You should contact [Digitalondemand@ntis.gov](mailto:Digitalondemand@ntis.gov) for questions specific to digital on demand.

### Q. I am a Premium Individual. Can I request “Digital on Demand”?

A. No. Only Premium Institutions are allowed for requesting digital on demand. This may change in future.

**Q. Why did I receive a message “Reached Digital on Demand request limit. Check your subscription for details”, when I try to approve a digital on demand request.**

A. The digital on demand request are mediated. The application allows an Institution Administrator to submit only a limited number of requests in a week. Look at your subscription to find out what is the limit. You can also check the [functionality matrix](#).

Again NTIS can decide to honor more

## Institution Administrator

**Q. I am the point of contact for an institution. How do I get Institution Administrator privileges?**

A. If you are the POC for an institution and want to manage the institutions account, you need to create a Public Access account and contact NTRL Help Desk at [NTRLhelpdesk@ntis.gov](mailto:NTRLhelpdesk@ntis.gov). When you email NTRL help desk, please send your Institution Account details and also your newly created Public Access username so that we can give this Public Account administrative privileges for the associated institution.

**Q. I am institution administrator. How do I manage digital on demand requests?**

A. If you are an Institution Administrator and you have administrator privileges, once you login to NTRL you will see a tab for “Digital on Demand”. Once you click on the tab, it will load “Digital on Demand” dashboard. Here you can manage digitization requests from your institution users. Available actions are Approve, Decline and Complete.

**Q. I am an Institution Administrator. I don’t see a tab for “Digital on Demand”**

A. If you are an Institution Administrator and you have administrator privileges but you don’t see tab for “Digital on Demand”, there can be problem setting up your account. You need to contact NTRL Help Desk at [NTRLhelpdesk@ntis.gov](mailto:NTRLhelpdesk@ntis.gov) with your username, registered email address and Institution Account details.

## Premium Institution Subscription

**Q. My institution has Premium Institution subscription but I cannot access NTRL from my institution.**

A. There can be many reasons for this. The institutions subscription might have expired. Another possibility is that your external IP address is not registered as part of your institution subscription. Premium Institution access is based on IP addresses. Your external IP should be in the list of IP addresses provided by your institutions NTRL point of contact during registration. You need to contact your local NTRL point of contact and check if your external IP address is registered.

## International Customers

**Q. I am an international customer. Can I sign up for Public Access?**

A. International customers can freely browse for information on NTRL. However they cannot register for Public Access. Registration is free only for United States residents. International customers are allowed to register for Premium Services only. Please take a look at [NTRL Premium Pricing](#). For subscription comparison please check [functionality matrix](#).

**Q. I am an international customer. I cannot download full text or PDF?**

A. All users need to register to download reports. Since you are a international customer, you need to register for Premium Services.

**PB2014105861**

Survey of Driver Opinion about Carbon Capture in Vehicles  
Michigan Univ., Ann Arbor. Transportation Research Inst.

“In an effort to reduce greenhouse-gas emissions resulting from combustion, various methods are under development to capture and store these gases before they enter the atmosphere. While most of these efforts are directed at containing the carbon-dioxide emissions from large-scale stationary producers like coal-fired powerplants or other industrial sources (Forbes et al., 2008), there has also been some interest in considering the feasibility of carbon capture from small distributed power plants, like the gasolinefueled internal-combustion engines ubiquitous in transportation (Damm & Fedorov, 2008).

In a previous report, some factors that might affect driver acceptance of in-vehicle carbon capture were discussed (Sullivan & Sivak, 2012). These factors included the added initial cost of the technology, the probable on-board storage required, possible impact on fuel economy, as well as changes in the routine tasks involved in vehicle upkeep. To obtain a better understanding of how the driving public views some of these issues, a survey was developed to directly probe drivers on several of these issues.”

**Major Subject Categories**

**Category Codes\*/Title**

**New for January Quantity\*\***

41 Manufacturing Technology .....	19
43 Problem Solving Information for State & Local Governments.....	59
44 Health Care .....	153
45 Communication .....	23
46 Physics .....	154
47 Ocean Sciences & Technology .....	166
48 Natural Resources & Earth Sciences.....	119
49 Electrotechnology .....	18
50 Civil Engineering.....	36
51 Aeronautics & Aerodynamics.....	55
54 Astronomy & Astrophysics.....	57
55 Atmospheric Sciences .....	85
57 Medicine & Biology.....	402
62 Computers, Control & Information Theory .....	70
63 Detection & Countermeasures.....	57
68 Environmental Pollution & Control.....	222
70 Administration & Management .....	67
71 Materials Sciences .....	36
72 Mathematical Sciences.....	41
74 Military Sciences .....	207
75 Missile Technology.....	1
76 Navigation, Guidance, & Control .....	1
77 Nuclear Science & Technology .....	4
79 Ordnance.....	11
81 Combustion, Engines, & Propellants .....	6
82 Photography & Recording Devices .....	8
84 Space Technology .....	47
85 Transportation .....	70
88 Library & Information Sciences .....	21
89 Building Industry Technology.....	29
90 Government Inventions for Licensing .....	0
91 Urban & Regional Technology & Development.....	85
92 Behavior & Society .....	109
94 Industrial & Mechanical Engineering .....	30
95 Biomedical Technology & Human Factors Engineering.....	19
96 Business & Economics.....	46
97 Energy.....	60
98 Agriculture & Food.....	40
99 Chemistry.....	31

\* Scope Notes define the specific topical content for each category;

<http://www.ntis.gov/assets/pdf/scopenotes.pdf>

\*\* Quantities represent each new report assigned on average to 3-5 categories.

**PB2013110469**

Connected Vehicle Assessment: Vehicle Electrification and the Smart Grid. The Supporting Role of Safety and Mobility Services. Intelligent Transportation Society of America, Washington, DC. 2013, 55p

**Related Categories/subcategories**

- 81B Electric & Ion Propulsion
- 85D Transportation Safety
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Keywords: Electric powered vehicles, Assessments, Electric Batteries.

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Keywords: Exhaust gases, Motor vehicles, Ethanol.

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Preliminary Examination of Ethanol Fuel Effects on EPA's R-Factor for Vehicle Fuel Economy.

Department of Energy, Washington, DC 2013, 27p

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- 85H Road Transportation
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Effects of Vehicle Fuel Economy, Distance Travelled, and Vehicle Load on the Amount of Fuel Used for Personal Transportation: 1970-2010.

Federal Motor Carrier Safety Administration, Washington, DC.

**Subject Category Codes/Classification**

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

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**Keywords:** Fuel consumption, Motor vehicle engines, Air quality.

**PB2013106860**

Transitions to Alternative Vehicles and Fuels. National Research Council, Washington, DC. Div.

**NTRL**

NATIONAL TECHNICAL REPORTS LIBRARY  
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**The National Technical Reports Library (NTRL) enhances accessibility to the NTIS technical reports collection. It provides access to:**

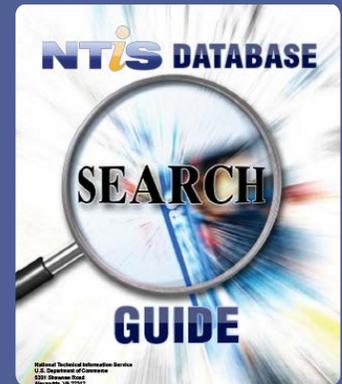
- Bibliographic records of more than 2,000,000 technical reports
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Subscription rates are based on institutional FTE levels.

The NTRL operates on a system interface that allows users to do queries on the large NTIS bibliographic database. The intent is to broadly expand and improve access to over 2 million bibliographic records (pre-1960 to present) and 800k full-text documents in PDF format that are directly linked to that bibliographic database.

For more information, go to:

<http://www.ntis.gov/products/ntrl/>



**Just Revised: the NTIS Database Search Guide**

Gain an in-depth understanding of the NTIS database structure with this new guide:

- Comprehensive list of NTIS Categories
- Helpful information and search hints
- Reference Guide to online commercial services and the NTRL
- Great Reference Manual & Teaching Tool

Photo: Architect of the Capitol



Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on NTIS.GOV.

If your organization is a subscriber to the National Technical Reports Library, most of the reports listed can be downloaded free there. For information on how to subscribe to NTRL, go to <http://www.ntis.gov/products/ntrl.aspx>.

## Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order by title.

NTIS Number	Category	Title
<b>PB2014105862</b>	85	Comparison of CAFE Standards and Actual CAFE Performance of New Light Duty Vehicles.
<b>PB2013110469</b>	85	Connected Vehicle Assessment: Vehicle Electrification and the Smart Grid. The Supporting Role of Safety and Mobility Services.
<b>PB2014103625</b>	97	Developing Eco-Adaptive Cruise Control Systems. Final Report.
<b>PB2014108187</b>	68	Effects of Ultra-Low Sulfur Gasoline on Emission from Tier 2 Vehicles in the In-Use Fleet. Final Report.
<b>PB2013111198</b>	85	Effects of Vehicle Fuel Economy, Distance Travelled, and Vehicle Load on the Amount of Fuel Used for Personal Transportation: 1970-2010.
<b>DE20131039621</b>	81	Exhaust Particle Characterization for Lean and Stoichiometric DI Vehicles Operating on Ethanol-Gasoline Blends.
<b>PB2014105867</b>	85	Fuel and Money Saved Using Tires with Low Rolling Resistance.
<b>PB2014107390</b>	68	Greenhouse Gas Emission Standards for Light-Duty Automobiles: Status of Early Credit Program for Model Years 2009-2011.
<b>PB2014105864</b>	85	Has Motorization in the U.S. Peaked. Part 3: Fuel Consumed by Light Duty Vehicles.
<b>DE20131082102</b>	68	Light-Duty Drive Cycle Simulations of Diesel Engine-Out Exhaust Properties for an RCCI-Enabled Vehicle.
<b>PB2013105508</b>	97	Predictive Eco-Cruise Control (ECC) System: Model Development, Modeling, and Potential Benefits.
<b>DE20131083739</b>	68	Preliminary Examination of Ethanol Fuel Effects on EPA's R-Factor for Vehicle Fuel Economy.
<b>PB2013110547</b>	85	Review of the Research Program of the U.S. Drive Partnership. Fourth Report.
<b>PB2014105861</b>	85	Survey of Driver Opinion about Carbon Capture in Vehicles.
<b>PB2013110008</b>	43	Tracking Costs of Alternatively Fueled Buses in Florida: Phase II, Summary Report.
<b>PB2013106860</b>	97	Transitions to Alternative Vehicles and Fuels.
<b>PB2014107490</b>	97	Transportation Revenue Impacts from a Changing Light-Duty Vehicle Fleet.
<b>PB2014101561</b>	97	TRESP II Testing of AFS Dual Fuel System.
<b>DE20131087824</b>	85	Vehicle Technologies Program Government Performance and Results Act (GPRA) Report for Fiscal Year 2014.
<b>DE20131067312</b>	85	Vehicles Technologies' Fact of the Week 2012.