

Clean Cities and Alternative Fuels Data Center Quarterly Report

1st Quarter FY 2006

D. Brodt-Giles

Milestone Report
NREL/MP-540-39539
March 2006

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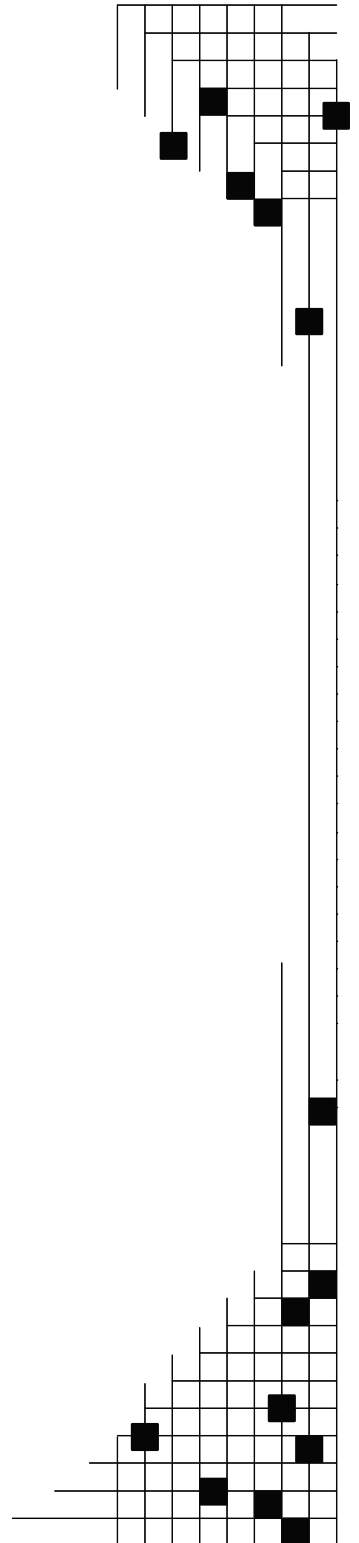
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D. Brodt-Giles

Prepared under Task No. CC06.5312

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Summary

This quarterly report summarizes activities in the Clean Cities and Alternative Fuels Data Center tasks at NREL. The report provides metrics on NREL activities, including lists of new information added to the AFDC and information that is part of the Clean Cities activities. The table below summarizes key information.

Table 1. NREL First Quarter FY06 Activities on Clean Cities and AFDC

Item	1st Qtr FY 2006
AFDC page views	1,532,158
Clean Cities page views	280,386
Document downloads ¹	24,449
News items added to AFDC/CC	21
Documents added/modified	21/38
Laws and Incentives added/modified	32/154
Refueling sites added/modified	183/1793

¹ Includes PDF, PowerPoint, and Excel downloads for Clean Cities and AFDC.

1.0 Tools and Information Added to the AFDC

1.1 Resources Developed

Clean Cities Now

A new issue of Clean Cities Now (V. 9, N. 3) was posted online in October. We sent e-mail notifications to all the subscribers, which helped increase traffic to the newsletter. This quarter, CCN received 6,425 page views, which is an increase over last quarter of about 1,500 page views! The newsletter is clearly getting more popular as time goes on and more people hear about this valuable resource. Some of the stories covered in this issue include the Clean Cities Beyond a Billion accomplishment, the new Energy Policy, coalition successes, and industry news.

Beyond a Billion

The Beyond a Billion sites were updated and reworked all through the month of October based on the needs of the coalitions, event activities, and needed resources. At the conclusion of the events, we created an online slide show that is available to the public and highlights event activities from across the country.

1.2 Resources Obtained

A routine activity within the AFDC involves gathering information and data from industry and other government sources that will help coordinators and others working to implement petroleum-reducing projects. Resources obtained during the first quarter include the following.

Table 2. Resources Obtained First Quarter

Links to other organizations	9
News items	21
Clean Cities publications	4
NREL publications for related programs	3
Government and industry publications	5

Lists of titles of information developed and acquired are provided in Appendix A.

1.3 Information Updates and Data Management

Database Updates

We continue to update the databases that comprise the AFDC, including the refueling stations database, laws and incentives database, and the document database. Activity in several AFDC databases is summarized in the following table.

Table 3. AFDC Record of Database Activity

1st Quarter FY 2006				
Database Name	Total # Records	# Added	# Modified	# Accessed
Document	4,023	21	38	20,396 downloads ¹
Caller Database	66,461	211	134	N/A
Requests	106,464	298	N/A	N/A
Refueling Sites ²	5,059	183	1,793	11,803 page views ¹
Vehicles	80	52	90	50,944 page views ¹
Laws and Incentives	602	32	154	29,215 page views ¹
Total First Quarter	182,689	797	2,209	N/A

¹These numbers reflect downloads and page views at the directory level on AFDC and may not include all CGI search results and page views from other sources such as Clean Cities and the Vehicle Buyer's Guide.

²Refuel sites are modified when station information changes. Total stations are only those that are in service.

Laws and Incentives

The new option year was exercised in October on the Incentives and Laws subcontract with ICF, and funded for the first 3 months of operation. Funding for the remaining 9 months was added in November so that the subcontract is now fully funded. Under the existing subcontract, incentives and laws were updated this quarter for the following states: North Carolina, Oregon, New Hampshire, California, District of Columbia, Michigan, New Jersey, Illinois, New York, Massachusetts, Ohio, Pennsylvania, and Wisconsin.

Programming and testing of the new Web interface for the incentives and laws was completed, and the new features went live this quarter. The users have the choice of selecting one of four incentive/law categories – incentive, regulation, technology/fuel, and user. Once a category is selected, users get a matrix of the number of incentives and laws broken down by state. For example, selecting Incentive Type brings up the tally for each type of incentive in the database – grants, tax incentives, HOV lane access, etc. Clicking on the number in the matrix brings up a description of each entry for that state. Alternatively, the user can perform a more complex query where the user selects a type from multiple categories and gets a description of each incentive and/or law that satisfies the input criteria.

Vehicle Availability

Data collection and review of the new model year 2006 light-duty and heavy-duty alternative fuel vehicles was completed. These data replaced the data from 2005 in the database to support the AFDC vehicle search and Vehicle Buyer's Guide applications.

Refueling Sites

Our arrangement with NEVC to share data has been working well. Communication with NEVC has been consistent, and we have been receiving satisfactory notice of new stations. The major reason for discrepancies between the number of NEVC refueling stations and ours has been their including “planned stations” along with “existing stations.” Our Web sites report only existing stations, even though we include planned stations in the database. Next quarter we will also display the planned stations on the map and in tabular form. This will help users see all stations that are available now and will be available in the future.

Systems Maintenance and Security

All preparation for the switch from Oracle 8i on our existing servers to Oracle 10g on the new servers was completed at the end of this quarter. The switch will take place in January, after the EPA state and fuel provider reporting period ends. The new Oracle 10g database will provide a higher level of system security and reliability, while requiring very little maintenance.

2.0 Information Distributed and Shared

2.1 Integration with Information Center

October 1, 2005 marked our transition from the Clean Cities and National Alternative Fuels Hotlines to the EERE Information Center. Phone lines were officially transferred on September 30, 2005. The 800-numbers for both lines ring directly to the Information Center (IC) phones, and operators can see that the call is coming in on one of our established 800 numbers. Wendy

Dafoe participated in a number of conference calls with IC staff in October to iron out some start-up issues. As requested by DOE, NREL continues to work with the IC on transition issues, and to review questions and responses for accuracy and completeness.

In October, NREL asked RSIS to move the Clean Cities publications in the EERE catalog from OWIP to FCVT, and requested that RSIS present the documents in reverse chronological order instead of chronological order to allow for easier navigation. This migration was completed by RSIS in January, although a separate structure was established called “FCVT-Clean Cities.”

The IC was asked to direct media calls related to Clean Cities portfolio elements to Wendy Dafoe directly. A large number of media calls were fielded in October, which was expected because of the release of Fuel Economy data. Although all calls did not relate to fuel economy, we know from experience that the release of the Fuel Economy Guide gets reporters thinking about more vehicle issues. The number of media inquiries ramped down significantly in November and December. Media inquiries are captured in the monthly highlights report.

During November, there was a period of delayed responses from the IC. Some inquiries took up to 6 business days to get from the IC to the Technical Response Service (TRS). Because of an agreement made during the December conference call, the IC described these delays in the monthly report and was tasked with reshaping this report.

Our stakeholders and program staff have provided mixed reviews based on their experiences with the IC. Additionally, because December numbers to the TRS were so low, it appears the IC is not forwarding Tier 2 calls to the TRS, but instead is attempting to handle them. We will review the first quarter data and identify Tier 2 calls and work with the IC so they can more accurately identify them. We will address any other problems and issues as they are brought to our attention.

2.2 Technical Response Service

The Clean Cities Technical Response Service (TRS) was launched October 1, 2005. The first table clearly shows that call volumes have decreased to the TRS and we intend to address that with the IC as stated above. The TRS did have the opportunity to do more in depth research for inquiries they answered. NREL, DOE, Coordinators, and ROs send some requests directly to the TRS. Consequently call volumes directed to the TRS from the IC do not reflect the total number of inquiries the TRS handled.

**Table 4. Technical Response Service:
Total Inquiries Processed by Month¹**

1st Quarter 2006	
Month	# of Requests
October	169
November	70
December	58
Total	297

¹ Includes both direct calls from program participants and forwarded from the IC. Does not include electronically processed FEG orders.

Table 5. Number of Requests Processed by Fuel Type/Technology

1st Quarter 2006		
Fuel/ Technology	# of Requests	% of Total
Ethanol	57	29%
Biodiesel	69	35%
Biofuels	8	4%
CNG/LNG	27	14%
LPG	8	4%
Hydrogen	4	2%
Methanol	4	2%
Hybrid	11	5%
Electric	10	5%
Total¹	198	100%

2.3 Highlights Among Inquiries and Requests

The following inquiries underscore the ability of the TRS to field technical inquiries; they also demonstrate the wide range of questions directed to our TRS.

Ethanol from Grapes

Michael Bartolotta (Michelangelo Vineyards, East Northport, New York) asked if it is possible to produce ethanol for fuel use from grapes. The TRS explained that according to the *Ethanol Supply Outlook for California*, “Unusable and surplus components of certain agricultural crops, especially grapes and other fruits, offer additional untapped potential to supply materials for ethanol production.” TRS also referred Mr. Bartolotta to the *Report to the Governor: Evaluation of Biomass-to-Ethanol Fuel Potential in California* for additional information about waste-to-ethanol production. Additionally, a paper presented at the U.S. DOE 27th Symposium on Biotechnology for Fuels and Chemicals (May 2005) explained that grape pomace could be used to produce ethanol. Finally, the TRS told Mr. Bartolotta that, according to John Sheehan of NREL, to date there is little or no research on fuel ethanol production from grapes; TRS also recommended that Mr. Bartolotta contact BBI International for information about ethanol feasibility studies.

Request from Office of Senator Conrad

On October 6, Aaron Severn (Office of Senator Conrad, North Dakota) requested flexible fuel vehicle (FFV) statistics, including the number of vehicles sold per year and the percentage of those that were sold to state and federal fleets. TRS provided details about the number of FFVs acquired by state and federal fleets with accompanying percentage values, as provided by NREL. TRS also provided sales information from the National Ethanol Vehicle Coalition and data from the Energy Information Administration. They also provided details from EPA's annual reports as well as the 2005 Purchasing Guide for Flexible Fuel Vehicles, and sent URL addresses for all sources cited.

Request from Wall Street Journal

Lauren Etter (Wall Street Journal, New York, New York) requested data about the number of barrels of oil that would be displaced if all vehicles were to use electricity. TRS provided data from the Transportation Energy Data Book and also explained that electric vehicles would likely only replace light-duty automobiles.

Chevron Global Downstream

On October 14 and October 18, Marcy Rood (U.S. Department of Energy Clean Cities Program, Washington, DC) requested that the TRS compile information about Clean Cities for Don Gary of Chevron Global Downstream. Marcy had asked Mr. Gary to engage in a discussion regarding opportunities for collaboration between Chevron and Clean Cities. In response, Mr. Gary requested additional information about Clean Cities. TRS compiled extensive descriptions with general information and URL addresses about Clean Cities and Clean Cities International for Mr. Gary.

Hotline Number on Informational Cards

The TRS received a forwarded call from a retired New York City police officer who received an informational card with his pension check. In addition to a brief article about improving gas mileage and cautions against using fuel saving devices, the card provided the DOE National Alternative Fuels Hotline phone number (1-800-423-1DOE). The EERE Information Center received a second inquiry about the pension check attachment. Wendy located the attachment by contacting the New York City Comptroller's office.

Recommended Efficiency of E85 Fuel Filters

Edward English of Fuel Quality Services in Florida requested data supporting the recommendation that 1 micron E85 fuel filters be used in refueling infrastructure applications, information about the recommended efficiency of those filters, and information about ethanol vapor pressure as a function of molar concentration. TRS recommended that Mr. English contact the Cim-Tek Filter Division of the Central Illinois Manufacturing Company for background data on the recommended efficiency of their 1 micron E85 filters. TRS noted that the original 1 micron filter recommendation might have originated with the auto manufacturers (Mr. English already has a contact at Ford). TRS also referred Mr. English to Bob Larsen, Manager of Argonne National Laboratory's Center for Transportation Research and to Ted Aulich, Research Supervisor (Biofuels) at Energy & Environmental Research Center in Grand Forks, North Dakota.

Heavy-Duty Truck Buy-Back Program

Sheri Michalak of Freightliner. Ms. Michalak was told by one of Freightliner's dealers that he lost a deal because a competitor had told the customer there is a federal diesel heavy-duty truck buy-back program for permanent replacement of trucks that are over 10 years old. Ms. Michalak requested information about any programs that fit this description. TRS explained that the Energy Policy Act of 2005 (EPA 2005) includes provisions for the establishment of a grant program for the replacement or retrofit of existing diesel vehicles and referred Ms. Michalak to Subtitle G, "Diesel Emissions Reduction" (Sections 791 through 797), beginning on page 756 of the Energy Policy Act Conference Report. TRS also provided contact information for the EPA

National Clean Diesel Campaign, EPA Clean School Bus USA Program and state programs in Colorado, California, and Texas, and referred her to the AFDC Laws & Incentives Web site.

2.4 Web Statistics Highlights

AFDC hit an all time high for pages viewed—more than 1.5 million pages were viewed on AFDC alone. And when you combine Clean Cities page views with those of AFDC, there were more than 1.8 million pages viewed in the first quarter of FY06.

Table 6. Page Views and Document Downloads for AFDC and Clean Cities

1st Quarter 2006			
	AFDC	Clean Cities	Total
Total Page Views	1,532,158	280,386	1,812,544
PDF file downloads	20,396	3,474	23,870
PowerPoint file downloads	357	130	487
Excel file downloads	22	70	92
Total Document Downloads	20,775	3,674	24,449

AFDC and Clean Cities Web Site Usage Continues to Grow Strong

The AFDC and Clean Cities Web sites have experienced dramatic page view numbers since approximately the middle of last year. The third quarter of FY05 yielded a 40% increase in combined page views—nearly 1.2 million page views. Then, the fourth quarter of FY05 produced more than 2.1 million combined page views. And now, the first quarter of FY06 remains strong at 1.8 million combined page views.

Now let's compare this quarter's numbers to those of the same quarter last year:

- Q1, FY06: 1.8 million page views
- Q1, FY05: 606,920 page views

That's a 196% increase from just one year ago!

There may be several reasons for the strong usage numbers, but some of the things that most likely increased page views include the media outreach during the Beyond a Billion events, an expanded CCN following, and an increased interest in biofuels and hybrid technologies.

Biodiesel and Ethanol Are Hot Topics

The Biodiesel and Ethanol Web pages and fact sheets continue to move higher on the top 10 Web pages and documents lists. Based on the popularity of these Web pages and documents, it seems that interest in biofuels is on the rise. Attachment B includes the top 10 documents and Web pages for both AFDC and Clean Cities.

3.0 Technical Assistance

3.1 Tiger Teams

The Technical Assistance Teams (Tiger Teams) provide expertise to coalitions facing barriers to implementing alternative fuels or infrastructure, hybrid electric and advanced vehicles, idle reduction technologies, or fuel economy practices. In addition, they link up coordinators and coalitions with expert speakers, resources, and information. The technical assistance contractors are:

Table 7. Technical Assistance Contractors

ADEPT, Inc.	North Carolina Advanced Energy
Gladstein, Neandross & Associates	Thomason & Associates
Marathon Technical Services	TIAX, LLC
New West Technologies	William A. Luke

The following projects are currently active:

Yale University Campus Shuttle and University Fleet Analysis

The project examined the 17-vehicle student bus and shuttle diesel fleet for aftertreatment and particulate matter upgrades, and made preliminary recommendations for biodiesel consideration and replacement vehicle options. Additionally, the project gathered data on the campus-wide transportation inventory and use, and began the analysis of the total University vehicle inventory that will culminate in a final report to the University early in 2006. In addition to the specific recommendations and options being presented to the University, a template that might serve as a model for other campuses nation-wide will be developed. To confirm the needs and approach that would be taken for this project, the Tiger Team and NREL traveled, early in the quarter, to New Haven to meet with Yale's vehicle purchasing coordinator, the Director of Sustainability, and the Greater New Haven Clean Cities coordinator, Lee Grannis.

CNG Incident Investigations

A subcontract was awarded in September 2005 for the investigation and reporting on 3 CNG incidences: 1) CNG Dryer equipment malfunction in NYC; 2) Waste hauler truck fire in Palm Desert, CA, and 3) Waste hauler truck fire in Santa Monica, CA. Preliminary results and reports were received for all incidences. It appears that none of the occurrences were directly related to the CNG fuel as the cause. Because of continuing investigations and legal considerations, decisions on what details can be reported will be made during the 2nd Quarter of FY06.

EPA Diesel Legacy Options

At the request of EPA, in partnership with DOE, alternative fuels options were added to an EPA Work Group report. These options allowed the consideration of, for example, the use of CNG/LNG as optional engine considerations for cleaning the diesel legacy fleet, representing some 11,000,000 vehicles. The significance is that the report recommendations can now provide a broader range of eligibility for CMAQ funds that might be made available for greening of the diesel legacy fleet.

The following project ideas are currently being considered, with a restricted budget in mind:

Truck Stop Electrification Assessment

From the Central Ohio Clean Fuels Coalition (now Clean Fuels Ohio), the request is to perform a market demand assessment for TSE facilities. For example, how many TSE parking spaces will be needed to meet demand (especially if many states pass anti-idling laws)? What exists today? What is the cost of electrifying spaces and who will pay? Assess option of providing revolving loan \$\$ for on-board anti-idle equipment; cost-equipment options; TSE as off-peak demand opportunity for electric utilities; study and provide outreach to utilities. For initial investigation, we referred this request to the Technical Response Service who provided a detailed, partial answer to some of the questions. Will pursue and consider further in 2nd Quarter FY06.

HuntsPoint, New York AFV Strategic Implementation Plan

This request was raised in the last quarter when Wendy Dafoe spoke with Susan McSherry, a co-coordinator of the New York City Clean Cities Coalition, about the project scope of technical assistance needs regarding the creation of an alternative fuel refueling site at Hunt's Point, New York, a major market distribution center on the East River in New York. They are looking for assistance with regard to strategic implementation of the refueling site that could be potentially utilized by the large concentrations of long- and short- haul trucks passing through the site daily. The assistance requested would include the development of a survey of fleets that use the site to determine commitments to alternative fuels and other site needs for alternative fuel infrastructure development.

Biofuels Fuel Quality Issues

Some internal Tiger Team funds were used to assist the Kentucky Clean Fuels Coalition to assess the fuel quality of one of the larger producers of biodiesel in the State. NREL's test results provided conclusive evidence that the subject biodiesel did not meet the ASTM D-9751 standard. This service helped to alleviate a problematic situation in the state of Kentucky. We also agreed to assist the Puget Sound Coalition with the review of test plans and implementation that also centered on possible fuel quality issues in a number of Seattle-area fleets. The review assistance will be provided in the 2nd Quarter FY06.

3.2 Coordinator and Coalition Assistance

We continue to use in-house and external sources for specific coordinator questions that come directly to the NREL Clean Cities team. Examples of these questions are provided below.

Diesel Particle Filters (DPFs)

Sam Spofforth asked about the soot in diesel particulate filters and whether it is a hazardous material. Shawn Whitacre, NREL, provided Sam with an answer. Their exchange was also shared with coordinators in a December Q&A sent via e-mail.

Ethanol Technology

Sam also asked a question about a news release he received touting a "remarkable new technology for ethanol production." Mike Pacheco from NREL's Bioenergy Center answered Sam's question and he shared the information with coordinators via the list serv.

Biodiesel in Maritime

Michael Tuccio of Connecticut asked about a submarine base specifying 100% biodiesel in their fuel specification. Mike wondered about the logic of this and had questions about gelling in cold temperatures. Both the TRS and NREL (Dafoe and McCormick) provided him information and input.

Hydraulic Fluid Heating

A coordinator asked about equipment to heat hydraulic fluid in garbage trucks of other vehicles with hydraulics to avoid the need to idle the vehicle. Wendy corresponded with Rolf Lichtner of Webasto and provided an answer and shared it with coordinators.

EPAct 2005

Wendy and the TRS fielded a number of questions from coordinators about the Energy Bill and its provisions.

Publications

A number of coordinators (Tammy Morgan, Kellie Walsh, Charise Stephens, Stacy Neef, Rick Price, Kevin Herdler) called for assistance finding the appropriate documents for their events/workshops.

Coordinator E-mail Server

The coordinator listserv (mass e-mail) on the Web site also continues to be used steadily and with great success. NREL distributed 3 funding alerts, Carl Lisek asked about an IR Association, Tobin Freid sent a link to a NCDOT report related to biodiesel emissions, Colleen Crowninshield asked about fees to AFV taxi's at airports, Rachanee Kitchel asked for coalition bylaws and policies. Francis Vogel was looking for police fleets that use AFVs or HEVs, Mark Brady and Jason Wager both posed biodiesel questions.

Additional questions

We also fielded questions about how octane affects emissions, determining fuel economy, hybrid incentives for 2005.

4.0 Fuel Use and Impacts Data Collection

NREL continues to collect data that are important to helping the program assess its progress in meeting its goals and assessing the petroleum displacement impacts from the program. In addition, we continue to implement strategies to identify sources of data at the coalition, state, and federal levels.

4.1 Coalition Survey

The 2005 online annual survey went live in October. Two Web casts were done to explain the modifications to the previous online survey – one for all coordinators and the second for California coordinators who were not available for the first Web cast. One of the important changes was the addition of automated GGE reduction offsets calculations in the online forms. These calculations allow the coordinators to immediately see the impacts of their efforts to get

alternative and advanced technologies into the marketplace. Also, the coordinators must now estimate how instrumental their efforts were to the successful implementation of each technology.

The new survey added two inventory sections – one for blends and one for fuel economy – and eliminated the alternative fuel stations inventory. An idle reduction technology section was also added that included inventories for truck stop electrification projects, on-board technologies, and an “Other” inventory that should capture idle reduction policies. Surveys are due by the end of February.

Appendix A: 1st Quarter FY06 Information Added to the AFDC

Site Updates & Additions

New Sites/Sub-Sites

Beyond a Billion Web site (versions for the public and coordinator access only)

Updated Sites/Pages

- AFDC, Clean Cities Web sites, and Technology Sub-sites – general maintenance and new information added
- Vehicle database updated with 2006 models for AFVs, HEVs, NEVs, and Electric Bicycles
- Planning activities for Clean Fleet Advisor
- Fleet Advisor HTML Skeleton coded

Other Site/Page Modifications

HTML documents Added/Updated: 348

PDF documents Added/Updated: 103

CGI documents Added/Updated: 116

Word Documents Added/Updated: 3

Excel Documents Added/Updated: 14

Power Point Documents Added/Updated: 1

New Links

Between October 1 and December 31, 2005, we added 9 links to the related links database.

DOE/NREL News

- Alternative Fuels Price Report Now Available (DOE)
- \$200K Available for Propane Development Projects (DOE)
- BMW, GM, and DaimlerChrysler Co-Develop Hybrid Cars (EERE Network News)
- Bonnie Raitt Helps Raise Awareness for Biodiesel (NBB)
- California Approves Greenhouse Gas Regulations for Vehicles (EERE Network News)
- Clean Cities Receives Natural Gas Vehicle Achievement Award (DOE)
- DOE Genomics Research Could Slash Costs of Ethanol and Hydrogen (EERE Network News)
- DOE and EPA Release Fuel Economy Data for 2006 Models (EERE Network News)
- Ford Escape Hybrid Finishes Fourth in Driverless Vehicle Race (EERE Network News)
- Ford to Offer Hybrid Versions of Half its Lineup by 2010 (EERE Network News)
- Honda Debuts Improved Civic Hybrid as its Hybrid Sales Hit 100,000 (EERE Network News)
- Iowa Becomes 89th Clean Cities Coalition! (DOE)

Publications

CC/AFDC Publications (produced by NREL unless otherwise noted)

- Beyond a Billion: Clean Cities Coalitions Have Displaced More than a Billion Gallons of Gasoline
- Clean Cities Now - Volume 9, Number 3
- Model Year 2006: Alternative Fuel and Advanced Technology Vehicles
- The Alternative Fuel Price Report - September 2005 (New West Technologies)

NREL Pubs for Related DOE Programs

- Activities and Accomplishments in MY 2004/FY 2005 (EPAAct)
- RTD Biodiesel (B20) Transit Bus Evaluation: Interim Review Summary (NPBF)
- What's New: Fall 2005 Update (EPAAct)

DOE Publications

- Annual Energy Outlook 2006: With Projections to 2030 (EIA)

Publications from Other Sources

- 2006 Purchasing Guide for Flexible Fuel Vehicles (NEVC)
- CCAP Transportation Emissions Guidebook (Center for Clean Air Policy)
- Good Practices for the Care and Custody of Propane in the Supply Chain (PERC)
- Use of Mid-Range Ethanol/Gasoline Blends in Unmodified Passenger Cars and Light Duty Trucks (American Coalition for Ethanol)

Database Updates

Refueling Station Database Updates

- Stations added this quarter: 166
- Stations updated this quarter: 1799

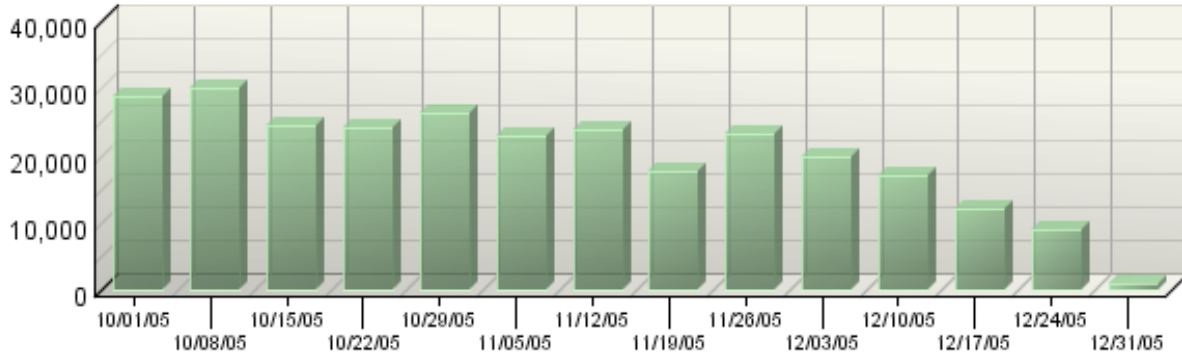
Incentives & Laws Added or Updated

- Laws and Incentives added this quarter: 32
- Laws and Incentives modified this quarter: 154

Appendix B: 1st Quarter FY06 Web Statistics

Clean Cities' Weekly Page Views 1st Quarter 2006

Page Views



Clean Cities' Top 10 Web Pages Accessed

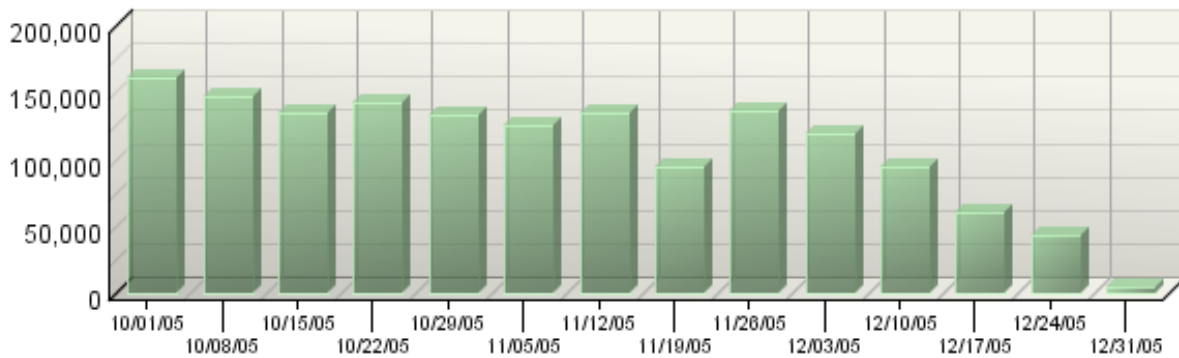
1st Quarter 2006

Web Page and URL	Page Views
Clean Cities Home Page http://www.eere.energy.gov/cleancities/	25,697
Vehicle Buyer's Guide Home Page http://www.eere.energy.gov/cleancities/vbg/	21,331
Vehicle Buyer's Guide for Consumers Home Page http://www.eere.energy.gov/cleancities/vbg/consumers/	15,921
Blends Subsite - Ethanol Fuel Blends Page http://www.eere.energy.gov/cleancities/blends/ethanol.html	6,886
Vehicle Buyer's Guide for Fleets – Alternative Fuel Vehicle Incentives http://www.eere.energy.gov/cleancities/vbg/fleets/state_incentive.html	5,757
Blends Subsite – Biodiesel Page http://www.eere.energy.gov/cleancities/blends/biodiesel.html	4,617
Vehicle Buyer's Guide for Fleets Home Page http://www.eere.energy.gov/cleancities/vbg/fleets/	4,435
Hybrid Electric Vehicles Subsite Home Page http://www.eere.energy.gov/cleancities/hev	4,336
HEV Cost Calculator – Main Page http://www.eere.energy.gov/cleancities/hev/cost_calc.html	4,109
AFDC Redirect Page http://www.eere.energy.gov/cleancities/afdc	4,099

Clean Cities' Top 10 Documents Accessed (PDF Files)	
1st Quarter 2006	
Document Name and URL	Page Views
Low-Level Ethanol Fuel Blends Fact Sheet http://www.eere.energy.gov/cleancities/blends/pdfs/37135.pdf	343
AFDC Property of Fuels Table http://www.eere.energy.gov/afdc/pdfs/fueltable.pdf	324
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Biodiesel – The Clean, Green Fuel for Diesel Engines - Fact sheet http://www.eere.energy.gov/cleancities/blends/pdfs/5450.pdf	117
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AFDC's Weekly Page Views 1st Quarter 2006

Page Views



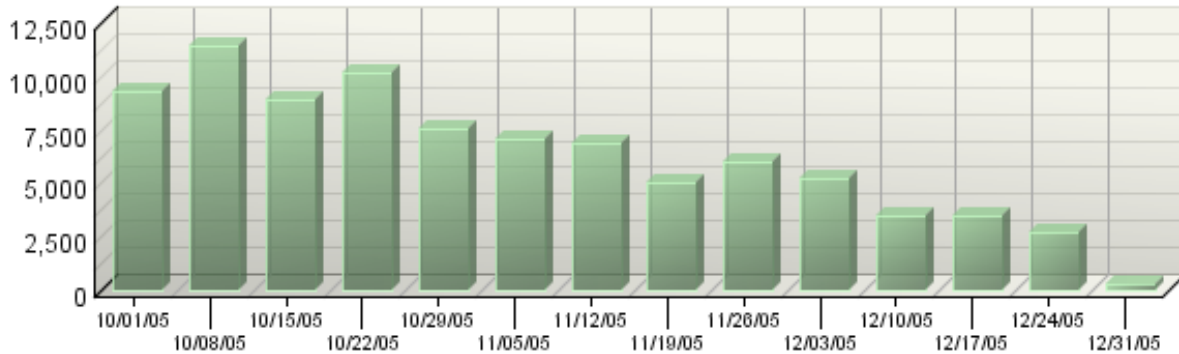
AFDC's Top 10 Web Pages Accessed 1st Quarter 2006	
Web Page and URL	Page Views
AFDC Home Page http://www.eere.energy.gov/afdc/	186,432
Alternative Fuels http://www.eere.energy.gov/afdc/altfuel/altfuels.html	93,621
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Ethanol http://www.eere.energy.gov/afdc/altfuel/ethanol.html	62,142
Incentives and Laws: State Summary http://www.eere.energy.gov/afdc/progs/state_summary.cgi	48,935
State and Federal Incentives and Laws http://www.eere.energy.gov/afdc/laws/incen_laws.html	46,211
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Current Alternative Fuel Models http://www.eere.energy.gov/afdc/afv/models.html	31,913
Hydrogen http://www.eere.energy.gov/afdc/altfuel/hydrogen.html	31,695
Compare Alternative Fuel Properties http://www.eere.energy.gov/afdc/altfuel/fuel_properties.html	29,792

AFDC's Top 10 Documents Accessed (PDF files) 1 st Quarter 2006	
Document Name and URL	Page Views
Alternative Fuel Price Report – September 2005 http://www.eere.energy.gov/afdc/resources/pricereport/pdfs/afpr_09_01_05.pdf	3,601
AFDC Properties of Fuels Table http://www.eere.energy.gov/afdc/pdfs/fueltable.pdf	3,558
Alternative Fuel Comparison Chart http://www.eere.energy.gov/afdc/pdfs/afv_info.pdf	1,701
Model Year 2006 AFV/Advance Technology Vehicles Listing * http://www.eere.energy.gov/afdc/pdfs/my2006_afv_atv.pdf	1,490
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Basic Technology Chart - Biodiesel http://www.eere.energy.gov/afdc/pdfs/biodiesel_chart.pdf	1,163
Alternative Fuel Price Report – March 2005 http://www.eere.energy.gov/afdc/resources/pricereport/pdfs/afpr_03_28_05.pdf	1,084
Model Year 2001 AFV/Advance Technology Vehicles Listing * http://www.eere.energy.gov/afdc/pdfs/wModel_Year2001AFVs.pdf	705
Model Year 2004 AFV/Advance Technology Vehicles Listing * http://www.eere.energy.gov/afdc/pdfs/my2004_afvs.pdf	473
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*All AFV listings are in the top 20 of documents downloaded. The "Current Models" page (www.eere.energy.gov/afdc/afv/models.html), which is one of the most popular on the AFDC, has links to all of these AFV documents.

E85 Fleet Toolkit Weekly Page Views 1st Quarter 2006

Page Views



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1st Quarter 2006	
Web Page and URL	Page Views
E85 Fleet Toolkit – Home Page http://www.eere.energy.gov/afdc/e85toolkit/	21,009
E85 Vehicles http://www.eere.energy.gov/afdc/e85toolkit/eth_vehicles.html	13,939
E85 Fuel http://www.eere.energy.gov/afdc/e85toolkit/e85_fuel.html	11,490
Benefits of E85 http://www.eere.energy.gov/afdc/e85toolkit/eth_benefits.html	4,315
Getting Started http://www.eere.energy.gov/afdc/e85toolkit/getting_started.html	4,066
Equipment and Processes http://www.eere.energy.gov/afdc/e85toolkit/equip_processes.html	3,336
Existing E85 Stations http://www.eere.energy.gov/afdc/e85toolkit/existing_stations.html	3,262
E85 Fueling Options http://www.eere.energy.gov/afdc/e85toolkit/fueling_options.html	3,240
E85 Specifications http://www.eere.energy.gov/afdc/e85toolkit/e85_specs.html	2,595
Fuel Suppliers http://www.eere.energy.gov/afdc/e85toolkit/fuel_suppliers.html	1,692

REPORT DOCUMENTATION PAGE

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