

# Unveiling the Roadmap: The Utility and Functionality of NHTS Data Dissemination Tools

**Layla Sun**, *MacroSys*

**C. Ross Wang**, *Oak Ridge National Laboratory* (presenting)

# Overview

Introduction to the NextGen NHTS Website

NextGen NHTS Data Explorer (DE) Tool

Query Example for the NextGen NHTS Data Explorer (DE) Tool

NextGen NHTS Compendium of Uses (CoU) Interactive Search (IS) Tool

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# Introduction to the NextGen NHTS Website

# NextGen NHTS Website—Homepage

U.S. Department of Transportation  
Federal Highway  
Administration

Home FAQ Login Compendium of Uses Documentation Downloads Publications Contact Us

## National Household Travel Survey

Conducted by the Federal Highway Administration, the NHTS is the authoritative source on the travel behavior of the American public. It is the only source of national data that allows one to analyze trends in personal and household travel. It includes daily non-commercial travel by all modes, including characteristics of the people traveling, their household, and their vehicles.

[Download 2022 V2.0 Data Now!](#) [Download/Explore National OD Data](#)










## Announcements

**New!** [The Summer 2024 NextGen NHTS Newsletter](#) is available in [Publications](#).

The 2022 [NextGen NHTS Data V2.0](#) are now released! See [V2.0 Release Notes](#) and [associated documentation](#) for details.


The [Summary of Travel Trends: 2022 National Household Travel Survey](#) is now released!

### 2022 Frequently Used National Statistics

-  Vehicles
-  Vehicle Trips
-  Vehicle Miles
-  Persons
-  Person Trips
-  Person Miles
-  Households
-  Workers
-  Drivers

[2022 NHTS Summary Statistics](#) ▼

## Origin-Destination Data Products



## Explore NHTS Data - Data Explorer (DE) Tool

(See the revised [DE Tool User Guide](#) for details **New!**)

Refer to the [downloadable codebook \(xlsx\)](#) for variables of the 2022 survey. Check out the [Online Codebook Browser](#) for more details on the 2017, 2009, and 2001 variables.

Year

Link: <https://nhts.ornl.gov/>

# NextGen NHTS Website—Explore Vehicle Trips Data



## Explore Vehicle Trips Data

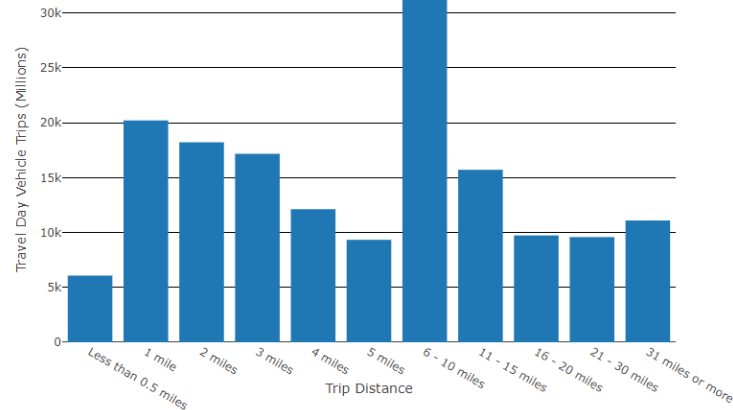
Vehicle trips are trips by a single privately-operated vehicle (POV), regardless of the number of persons in a vehicle.

### Popular Vehicle Trips Statistics

Household Income  Distance  Vehicles Available  Trip Purpose

Trip Distance	Travel Day Vehicle Trips		
	Sample Size	Sum (Millions)	Percent
Less than 0.5 miles	737	6,074	3.8
1 mile	2,681	20,205	12.6
2 miles	2,445	18,215	11.3
3 miles	2,168	17,166	10.7
4 miles	1,641	12,119	7.5
5 miles	1,294	9,332	5.8
6 - 10 miles	3,965	31,705	19.7
11 - 15 miles	1,971	15,712	9.8
16 - 20 miles	1,174	9,731	6.0
21 - 30 miles	1,130	9,579	6.0
31 miles or more	1,281	11,094	6.9
Not ascertained	3	21	0.0
All	20,490	160,953	100.0

Number of Vehicle Trips (VT) by Trip Distance (TRPMILES)



# NextGen NHTS Website—Frequently Asked Questions



## 2022 NHTS Frequently Asked Questions

Click on the following topics to read the related FAQs:

- **About the NHTS**
  - [What are the NHTS and NPTS?](#)
  - [How is NHTS Data Used?](#)
  - [What is an NHTS Add-on?](#)
  - [How was the 2022 NHTS conducted?](#)
  - [When was the data collected for the 2022 NHTS?](#)
  - [Who is included in the survey?](#)
  - [Which daily trips are included?](#)
- **Notes for Data Users**
  - [How does the 2022 NHTS data differ from earlier NHTS results?](#)
  - [At what geographic levels is it statistically valid to use 2022 NHTS data?](#)
  - [Which variable\(s\) do I use to determine urban/rural status?](#)
  - [How do I compute statistics such as person trips per person and vehicle miles of travel per household?](#)
  - [How do I obtain information on trip purpose?](#)
  - [How do I identify weekday vs. weekend travel?](#)
  - [Why does a variable have negative values, such as -1 or -9?](#)
  - [How can I determine what values of a specific variable mean?](#)
  - [What is the difference between standard errors and margins of error?](#)
  - [How can I cite NHTS data in my research?](#)

## ABOUT THE NHTS

[What are the NHTS and NPTS?](#) ↑

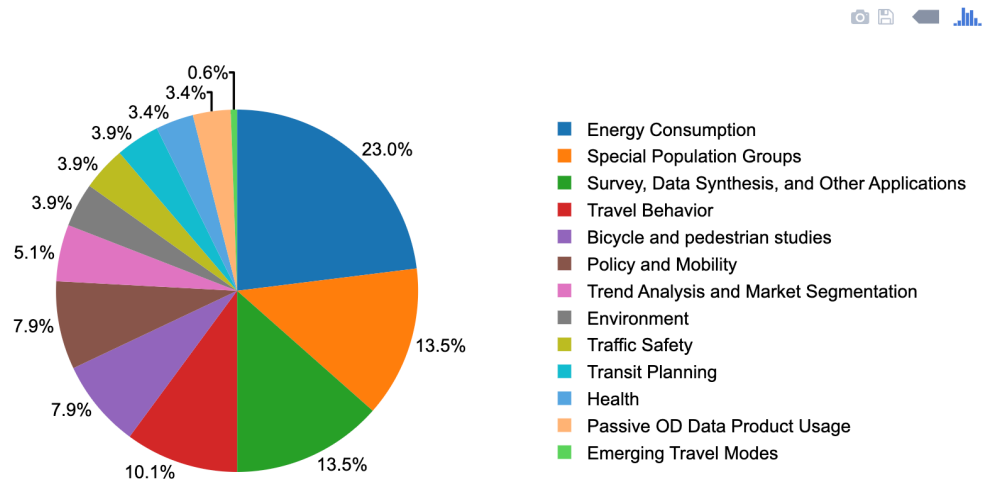
# NextGen NHTS Website—Compendium of Uses

## NHTS Compendium of Uses

The NHTS Compendium of Uses is a series of reports that provide a summary of the use and applications of the NHTS data in transportation planning and related activities.

### Search for Report(s)

### 2024 Compendium publications by Chapter (Updated September, 2024)



# NextGen NHTS Website—Documentation



## NHTS / NPTS Documentation

### 2022 NHTS Documentation

- [Users' Guide V2.0 \(pdf\)](#)
- [NHTS Compatibility with Prior Data V2.0 \(pdf\)](#)
- [Version 2.0 Release Notes \(pdf\)](#)
- [Codebook V2.0 \(pdf\) \(xlsx\)](#)
- [Data Dictionary V2.0 \(xlsx\)](#)
- [Derived Variables V2.0 \(pdf\)](#)

### 2017 NHTS Documentation

- [Users' Guide \(pdf\)](#)
- [NHTS Compatibility with Prior Data \(pdf\)](#)
- [NHTS Version 1.2 Release Notes \(pdf\)](#)
- [Codebook \(pdf\) \(xlsx\)](#)
- [Version 1.2 Data Dictionary \(xlsx\)](#)
- [Derived Variables \(pdf\)](#)
- [Best Estimate of Annual Vehicle Mileage for 2017 NHTS Vehicles \(pdf\)](#)
- [EIA Fuel Consumption Variables \(pdf\)](#)
- [Survey Documents \(zip\)](#)

### 2009 NHTS Documentation

#### User's Guide

- [Codebook and Data Dictionary](#)
- [Introduction, survey design, response rates, weighting, data files, and using the data](#)
- [Weighting report](#)

### 2022 NHTS Survey Documents

- [2022 NHTS Weighting Memo](#)
- [Invitation Packet](#)
- [Reminder Letter](#)
- [Post Card 1](#)
- [Post Card 2](#)
- [Annotated Survey](#)

### Online Codebook

The original [Online Codebook Browser](#) supports the 2017, 2009, 2001, and 1995 surveys. Please use the [downloadable codebook \(xlsx\)](#) for the 2022 survey. A renewed Online Codebook Browser will be released soon. Stay tuned!



# NextGen NHTS Website—Downloads

U.S. Department of Transportation  
Federal Highway Administration

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## Downloads


### 2022 NHTS Datasets

Survey Data	Available in <ul style="list-style-type: none"><li>• <a href="#">SAS Windows binary V2.0 (4.3 MB)</a></li><li>• <a href="#">SAS Transport V2.0 (4.2 MB)</a></li><li>• <a href="#">CSV V2.0 (3.7 MB)</a></li><li>• <a href="#">SPSS V2.0 (7.3 MB)</a></li></ul>
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### 2017 NHTS Datasets

Survey Data	Available in <ul style="list-style-type: none"><li>• <a href="#">SAS Windows binary (78 MB)</a></li><li>• <a href="#">SAS Transport (81 MB)</a></li><li>• <a href="#">DBase (97 MB)</a></li><li>• <a href="#">CSV (80 MB)</a></li><li>• <a href="#">SPSS (121 MB)</a></li></ul> <p>NOTE: The label for the GSCOST variable found in SAS/SPSS downloads is incorrect and should read "Annualized fuel cost in US dollars per equivalent gallon"</p> <p>Also see the <a href="#">SAS Proc Format library</a> source code (SAS file).</p>
Replicate Weights	Available in <ul style="list-style-type: none"><li>• <a href="#">SAS Windows binary (80 MB)</a></li><li>• <a href="#">CSV (81 MB)</a></li></ul>
Trip Chains	Available in <ul style="list-style-type: none"><li>• <a href="#">PDF (Documentation)</a></li><li>• <a href="#">SAS (26 MB)</a></li><li>• <a href="#">CSV (21 MB)</a></li></ul>

# NextGen NHTS Website—Publications

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## NHTS Publications

- Filter by *Survey* and *Category* using the dropdown menus in the header. Enter a keyword to search.
- Also see the **User's Guides**, **NHTS Compendium of Uses**, and the **FAQ**.

Enter search text

Survey	Category	Title	Date	Link
NextGen	Newsletter	NextGen NHTS Newsletter (Summer 2024)	2024	<a href="#">PDF</a>
2022	Report	Summary of Travel Trends: 2022 National Household Travel Survey	2024	<a href="#">PDF</a>
NextGen	Report	Travel Survey State of the Practice	2023	<a href="#">PDF</a>
NextGen	Newsletter	NextGen NHTS Newsletter (Summer 2022)	2022	<a href="#">PDF</a>
NextGen	Newsletter	NextGen NHTS Newsletter (Spring 2021)	2021	<a href="#">PDF</a>
NextGen	Newsletter	NextGen NHTS Newsletter (Winter 2020/2021)	2021	<a href="#">PDF</a>
NextGen	Newsletter	NextGen NHTS Newsletter (Summer 2020)	2020	<a href="#">PDF</a>
NextGen	Report	Assessing Changes in Travel Behavior Data Collection Report	2020	<a href="#">PDF</a>
2017	Brief	Non-Motorized Travel	2020	<a href="#">PDF</a>
2017	Profile	Travel Profile: United States	2019	<a href="#">PDF</a>

# NextGen NHTS Website—Contact Us

U.S. Department of Transportation  
Federal Highway  
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## NHTS Program Contacts

<b>Data User Support</b>	Mitch Fisher	<a href="mailto:mitchell.fisher@macrosysrt.com">mitchell.fisher@macrosysrt.com</a>	703-812-8384
<b>Add-on Coordinator</b>	Stacey Bricka	<a href="mailto:stacey.bricka@macrosysrt.com">stacey.bricka@macrosysrt.com</a>	703-812-8386
<b>Website Support</b>	Chieh (Ross) Wang	<a href="mailto:cwang@ornl.gov">cwang@ornl.gov</a>	865-341-1343
<b>Media / Newspaper Enquiries</b>	Neil Gaffney	<a href="mailto:neil.gaffney@dot.gov">neil.gaffney@dot.gov</a>	202-366-0660
<b>NHTS Program Manager</b>	Danny Jenkins	<a href="mailto:daniel.jenkins@dot.gov">daniel.jenkins@dot.gov</a>	202-366-1067
<b>NHTS NextGen OD Data Products Manager</b>	Patrick Zhang	<a href="mailto:patrick.zhang@dot.gov">patrick.zhang@dot.gov</a>	202-366-1941
<b>NHTS National Bikeway Network Manager</b>	Steven Jessberger	<a href="mailto:steven.jessberger@dot.gov">steven.jessberger@dot.gov</a>	202-366-5052

### NHTS News

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### US Mail

FHWA / NHTS  
1200 New Jersey Avenue, SE  
Room E83-426  
Washington, DC 20590

### Fax

202-366-7742

# NextGen NHTS Data Explorer (DE) Tool

# What is the NextGen NHTS DE Tool?

- The NextGen NHTS DE Tool was created to support online data analysis for 2022, 2017, 2009, and 2001 NHTS data
- It provides users with the ability to build customized tabulations using a web browser
- The tool delivers output tables in Hypertext Markup Language (HTML), Excel, and comma-separated value (CSV) formats

# How to Access the NextGen NHTS DE Tool?

**Step 1:** Visit the NHTS homepage at <https://nhts.ornl.gov/>

**Step 2:** Scroll to the bottom of the homepage to access the tool

The screenshot shows the NHTS homepage. At the top, the U.S. Department of Transportation Federal Highway Administration logo is on the left. A navigation bar contains links: Home (circled with a '1'), FAQ, Login, Compendium of Uses, Documentation, Downloads, Publications, and Contact Us. Below this are categories: Vehicles, Vehicle Trips, Vehicle Miles, Persons, and Person Trips. Under 'Persons', there are icons for Person Miles, Households, Workers, and Drivers. A '2022 NHTS Summary Statistics' dropdown menu is visible. To the right is a 'Data Products' section with various charts. At the bottom, a dark teal banner for the 'Explore NHTS Data - Data Explorer (DE) Tool' is highlighted with a dashed white border. It includes a 'New!' badge and a link to the 'DE Tool User Guide'. Below the banner are two dropdown menus: 'Year' and 'Analysis Variable', both set to '-- Select --'. A circled '2' is placed to the right of these dropdowns.

# NextGen NHTS DE Tool Overview

## Explore NHTS Data - Data Explorer (DE) Tool (See the revised [DE Tool User Guide](#) for details **New!**)

Refer to the [downloadable codebook \(xlsx\)](#) for variables of the 2022 survey. Check out the [Online Codebook Browser](#) for more details on the 2017, 2009, and 2001 variables.

**1** Year

**2** Analysis Variable

Row Variable

**3** Column Variable

Page Variable

Select your row parameter for evaluation against your chosen analysis variable. Only relevant parameters are included in this select menu. This will create a one-way result.

Select your column parameter for evaluation using your chosen row and analysis variables. Only relevant parameters are included in this select menu. This will create a two-way result.

Select your page parameter for evaluation using your chosen row, column and analysis variables. Only relevant parameters are included in this select menu. This will create a three-way result.

**4** Submit **6** Reset

### Query Results **5**

**Job outputs are retained for 60 days**

Job Number	HTML Results	Excel	CSV	
170068172751	<a href="#">HTML</a>	<a href="#">Spreadsheet</a>	<a href="#">CSV</a>	<b>X</b>

# Query Example for the NextGen NHTS Data Explorer (DE) Tool



# NextGen NHTS DE Tool Example

## Sample Query:

- New long-distance (LD) data in 2022: Persons (LD) by LD source of LD data by employment status in 2022

## Query break-down for NextGen NHTS DE Tool:

- **Year:** 2022
- **Analysis Variable:** Persons (Long Distance)
- **Row Variable:** **LDT\_FLAG** (Source of long-distance data)
- **Column Variable:** **WORKER** (Employment status of respondent)
- **Page Variable:** Not selected.

# NextGen NHTS DE Tool Example— Persons (LD) by LD Data Source by Employment Status (2022)

## Explore NHTS Data - Data Explorer (DE) Tool (See the revised [DE Tool User Guide](#) for details **New!**)

Refer to the [downloadable codebook \(xlsx\)](#) for variables of the 2022 survey. Check out the [Online Codebook Browser](#) for more details on the 2017, 2009, and 2001 variables.

Year **1**

Analysis Variable **2**

Row Variable **3** 
  
Select your row parameter for evaluation against your chosen analysis variable. Only relevant parameters are included in this select menu. This will create a one-way result.

Column Variable 
  
Select your column parameter for evaluation using your chosen row and analysis variables. Only relevant parameters are included in this select menu. This will create a two-way result.

Page Variable 
  
Select your page parameter for evaluation using your chosen row, column and analysis variables. Only relevant parameters are included in this select menu. This will create a three-way result.

### Query Results **5**

Job outputs are retained for 60 days

Job Number	HTML Results	Excel	CSV	
172496193515	<a href="#">HTML</a>	<a href="#">Spreadsheet</a>	<a href="#">CSV</a>	<input type="button" value="X"/>

**4**

# NextGen NHTS DE Tool Example— Weighted Sum Output Table for 2022 (HTML Results)

**2022 NHTS  
Persons Long Distance  
2022 National Household Travel Survey  
WTPERFIN\_sum**

LDT_FLAG	WORKER			TOTAL
	Legitimate Skip	Worker	Not worker	
Not ascertained	328,672.17	2,159,047.99	1,075,713.10	3,563,433.26
Long distance info derived from travel day	528,042.25	4,936,862.57	1,765,498.61	7,230,403.43
Long distance info asked of respondents	35,058,323.33	125,417,565.97	69,642,225.15	230,118,114.45
More than 5 years since last long distance trip	3,615,620.15	15,845,318.25	17,596,051.33	37,056,989.74
Never taken a trip longer than 50 miles	6,620,104.75	9,650,715.54	11,321,163.83	27,591,984.12
<b>TOTAL</b>	46,150,762.66	158,009,510.33	101,400,652.01	305,560,925.00

*Source: Federal Highway Administration, 2022 National Household Travel Survey (NHTS)  
Tabulation created on the NHTS website at <https://nhts.ornl.gov>*

# NextGen NHTS DE Tool Example— Sample Size Output Table for 2022 (HTML Results)

**2022 NHTS  
Persons Long Distance  
2022 National Household Travel Survey  
Sample Size**

	WORKER			TOTAL
	Legitimate Skip	Worker	Not worker	
LDT_FLAG				
Not ascertained	25	103	71	199
Long distance info derived from travel day	24	233	113	370
Long distance info asked of respondents	1,668	6,483	5,212	13,363
More than 5 years since last long distance trip	165	584	996	1,745
Never taken a trip longer than 50 miles	311	380	629	1,320
<b>TOTAL</b>	2,193	7,783	7,021	16,997

*Source: Federal Highway Administration, 2022 National Household Travel Survey (NHTS)*

*Tabulation created on the NHTS website at <https://nhts.ornl.gov>*

# NextGen NHTS DE Tool Example— Margin of Error Output Table for 2022 (HTML Results)

**2022 NHTS  
Persons Long Distance  
2022 National Household Travel Survey  
MoE**

LDT_FLAG	WORKER			TOTAL
	Legitimate Skip	Worker	Not worker	
Not ascertained	215,702.06	676,037.22	436,141.58	908,153.72
Long distance info derived from travel day	322,825.90	1,045,332.15	547,588.56	1,322,766.78
Long distance info asked of respondents	3,813,155.08	5,683,499.12	3,393,511.77	8,757,126.09
More than 5 years since last long distance trip	1,118,040.28	2,633,472.63	2,375,430.65	4,308,347.00
Never taken a trip longer than 50 miles	2,163,782.44	1,740,845.30	1,755,066.97	3,662,158.19
<b>TOTAL</b>	<b>4,534,645.95</b>	<b>6,804,111.80</b>	<b>4,835,718.01</b>	<b>10,866,147.87</b>

*Source: Federal Highway Administration, 2022 National Household Travel Survey (NHTS)  
Tabulation created on the NHTS website at <https://nhts.ornl.gov>*

# NextGen NHTS DE Tool Resources

## User's Guide:

- A guide on how to use the NextGen NHTS DE Tool will be available at <https://nhts.ornl.gov/documentation> (currently in production)

## For Assistance:

- Contact [mitchell.fisher@macrosysrt.com](mailto:mitchell.fisher@macrosysrt.com) and copy [stacey.bricka@macrosysrt.com](mailto:stacey.bricka@macrosysrt.com) and [layla.sun@macrosysrt.com](mailto:layla.sun@macrosysrt.com)

# NextGen NHTS

## Compendium of Uses (CoU)

### Interactive Search (IS) Tool

# What is the NextGen NHTS CoU IS Tool?

- The NextGen NHTS CoU is a series of reports that provide a summary of the use and applications of the NHTS data
- The CoU Interactive Search (IS) Tool provides users with the ability to search the CoU by keyword(s), year, and chapter (i.e., topic area)
- The search results are displayed in a Hypertext Markup Language (HTML) table and can be downloaded as a comma-separated value (CSV) file



# How to Access the NextGen NHTS DE Tool?

Visit the NHTS Compendium of Uses page at <https://nhts.ornl.gov/compendium>

The screenshot shows the website for the NHTS Compendium of Uses. At the top left is the U.S. Department of Transportation Federal Highway Administration logo. The top navigation bar includes links for Home, FAQ, Login, Compendium of Uses (highlighted with a dashed box), Documentation, Downloads, Publications, and Contact Us. The main heading is "NHTS Compendium of Uses" with a sub-heading: "The NHTS Compendium of Uses is a series of reports that provide a summary of the use and applications of the NHTS data in transportation planning and related activities." Below this is a search section titled "Search for Report(s)" with a text input field "Enter query words...", two dropdown menus for "Select Year" and "Select Chapter", and a blue "Search" button. The main content area features a pie chart titled "2024 Compendium publications by Chapter (Updated September, 2024)". The pie chart is divided into ten segments, with the largest being Energy Consumption at 23.0%. A legend to the right of the chart lists the categories: Energy Consumption, Special Population Groups, Survey, Data Synthesis, and Other Applications, Travel Behavior, Bicycle and pedestrian studies, Policy and Mobility, Trend Analysis and Market Segmentation, Environment, and Traffic Safety. The chart also includes icons for camera, print, and zoom.

Chapter	Percentage
Energy Consumption	23.0%
Special Population Groups	10.5%
Survey, Data Synthesis, and Other Applications	3.9%
Travel Behavior	3.9%
Bicycle and pedestrian studies	3.9%
Policy and Mobility	7.9%
Trend Analysis and Market Segmentation	5.1%
Environment	3.9%
Traffic Safety	3.4%
Other	0.6%

# Search Example for the NextGen NHTS Compendium of Uses (CoU) Interactive Search (IS) Tool

# NextGen NHTS CoU IS Tool Example

## Sample Search:

- To find publications and reports that used and/or cited NHTS for electric vehicle studies

## Search break-down for NextGen NHTS CoU IS Tool:

- **Query words:** electric vehicle
- **Year:** 2024
- **Chapter:** Leave unselected

# NextGen NHTS CoU IS Tool Example— Find EV relevant Reports that Used NHTS Data

**1** Search for Report(s)

electric vehicle

2024 **2** Select Chapter **3** Search **4**

Search Result(s) *58 item(s) found* [Download](#)

Year	Chapter	Title	Authors	Abstract	Subject Areas	Availability
2024	Energy Consumption	Multi-Agent-Based Real-Time Operation of Microgrids Employing Plug-in Electric Vehicles and Building Prosumers	Kyriakou, D.G., Kanellos, F.D., and Ipsakis, D.	Real-time operation of microgrids holds significant importance due to its ability to enhance energy resilience and efficiency. Real-time control in conjunction with continuous monitoring and energy supply and demand fluctuations adaptation, ensures a stable and reliable power supply for local communities, even during grid disturbances or outages. Moreover, real-time operation supports demand response mechanisms, enabling users to actively manage their energy consumption and costs. Overall, it plays a pivotal role in modernizing and future-proofing contemporary energy infrastructure, making it more sustainable. In this paper, an efficient, easily applied multi-agent-based real-time energy management and control system for microgrids employing Plug-In Electric Vehicles (PEVs) and building prosumers is developed. The primary goal of this proposed approach is to determine the optimal power set-points for all microgrid components with the objective to reduce the overall daily operation expenses under fluctuating electricity price, while simultaneously satisfying a wide range of constraints. Well-defined flexibilities of all microgrid components to adjust their power are harnessed to execute optimal power dispatch. The implementation of the proposed method resulted in a noteworthy cost reduction of 14.3% when contrasted with a typical operation of the microgrid.	Real-time Control; Smart Building Prosumers; Energy Efficiency; Plug-in Electric Vehicles; Thermal Comfort; Sustainability; Optimization; Demand Response; Power Management; Optimal Power Dispatch	Kyriakou, D.G., Kanellos, F.D., and Ipsakis, D. (2024). "Multi-Agent-Based Real-Time Operation of Microgrids Employing Plug-in Electric Vehicles and Building Prosumers." Sustainable Energy, Grids and Networks, 37. <a href="https://doi.org/10.1016/j.segan.2023.101229">https://doi.org/10.1016/j.segan.2023.101229</a>
2024	Energy Consumption	A Multi-Objective Site Selection of Electric Vehicle Charging Station Based On NSGA-	Zhang, H. and Shi, F.	The planning of charging infrastructure is crucial to developing electric vehicles. Planning for charging stations requires considering several variables, including building costs, charging demand, and coverage levels. It might be advantageous to use a multi-objective optimization method based on the NSGA-II. We need to address the current problems in choosing the location of electric vehicle charging stations. Firstly, urban land use is divided into five	Facility layout; Multi-objective optimization; NSGA-II algorithm; Urban	Zhang, H. and Shi, F. (2024). "A Multi-Objective Site Selection of Electric Vehicle Charging Station Based On NSGA-II." International Journal of Industrial Engineering Computations, 15(1), pp. 293–306. <a href="https://arowingscience.com/ijec/Vol15/I1/IEC_2023">https://arowingscience.com/ijec/Vol15/I1/IEC_2023</a>

# NextGen NHTS CoU IS Tool Resources

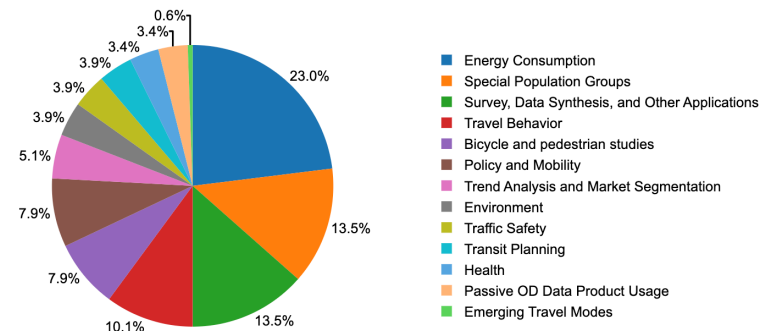
## Publications by Chapter:

- A pie chart that visualizes the most recent compendium publications by topic area

## CoU Archive:

- A series of previously compiled compendiums in PDF format are available at the bottom of the CoU page

2024 Compendium publications by Chapter (Updated September, 2024)



### Compendium of Uses Archive

1. NHTS Compendium of Uses [2023, [PDF](#)] (Updated September, 2023)
2. NHTS Compendium of Uses [2022, [PDF](#)]
3. NHTS Compendium of Uses [2021, [PDF](#)]
4. NHTS Compendium of Uses [2020, [PDF](#)]
5. NHTS Compendium of Uses [2019, [PDF](#)]
6. NHTS Compendium of Uses [2018, [PDF](#)]
7. NHTS Compendium of Uses [2017, [PDF](#)]
8. NHTS Compendium of Uses [2016, [PDF](#)]
9. NHTS Compendium of Uses [2015, [PDF](#)]
10. NHTS Compendium of Uses [2014, [PDF](#)]
11. NHTS Compendium of Uses [2013, [PDF](#)]
12. NHTS Compendium of Uses [2012, [PDF](#)]
13. Uses of National Household Travel Survey Data in Transportation [2011, [PDF](#)]
14. NHTS Users and Uses [2006, [PDF](#)]

# Thank You!