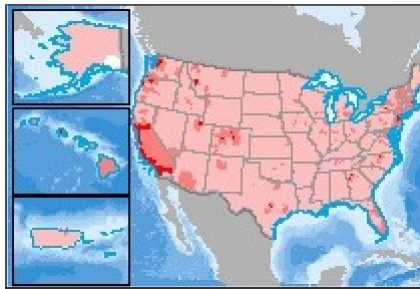


Plug-in Electric Vehicle Registrations (2023)



Tags

pev, bev, phev, electric vehicle, vehicle registration

Summary

Depicts per-county light-duty electric vehicle registration rates based on Experian data for 2022 and 2023.

Description

This layer includes the proportion of light-duty Battery Electric Vehicle (BEV), Plug-in Hybrid Electric Vehicle (PHEV), and Plug-in Electric Vehicle (PEV) registrations aggregated to the county level, based on Experian Automotive Vehicle in Operation data (<https://www.experian.com/automotive/vehicles-in-operation-vio-data>) for 2022 and 2023. BEV vehicles use only electricity, PHEV vehicles are fueled by both electricity and gasoline, and PEV vehicles include both BEV and PHEV types. Per county counts of the numbers of light-duty BEV, PHEV, and PEV registrations were divided by the total light-duty registrations, and rounded to 0.1%.

Credits

Experian Automotive Vehicle in Operation data (<https://www.experian.com/automotive/vehicles-in-operation-vio-data>), aggregated by county by Argonne National Laboratory Systems Assessment Center.

Use limitations

The Motor Vehicle Data provided is solely for use in research activities and for use in producing statistical reports.

Extent

West	-179.147236	East	179.778470
North	71.390380	South	17.881229

Scale Range

Maximum (zoomed in)	1:500,000
Minimum (zoomed out)	1:20,000,000

Topics and Keywords

THEMES OR CATEGORIES OF THE RESOURCE transportation

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

Citation

TITLE Plug-in Electric Vehicle Registrations (2023)
PUBLICATION DATE 2024-01-01
PRESENTATION FORMATS * digital map

Citation Contacts

RESPONSIBLE PARTY
ORGANIZATION'S NAME Experian
CONTACT'S ROLE resource provider
CONTACT INFORMATION
ONLINE RESOURCE
LOCATION <https://www.experian.com/automotive/vehicles-in-operation-vio-data>
RESPONSIBLE PARTY
INDIVIDUAL'S NAME Systems Assessment Center
ORGANIZATION'S NAME Argonne National Laboratory
CONTACT'S ROLE processor
CONTACT INFORMATION
ADDRESS
TYPE
E-MAIL ADDRESS gohlke@anl.gov

Resource Details

DATASET LANGUAGES * English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format
STATUS completed
SPATIAL REPRESENTATION TYPE * vector
* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.0.12790
CREDITS
Experian Automotive Vehicle in Operation data
(<https://www.experian.com/automotive/vehicles-in-operation-vio-data>), aggregated by county by Argonne National Laboratory Systems Assessment Center.
ARCGIS ITEM PROPERTIES
* NAME ev_registration_experian_231231_v2

Extents

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT TYPE Extent used for searching
* WEST LONGITUDE -179.147236
* EAST LONGITUDE 179.778470
* NORTH LATITUDE 71.390380
* SOUTH LATITUDE 17.881229
* EXTENT CONTAINS THE RESOURCE Yes
TEMPORAL EXTENT
DATE AND TIME 2024-03-28
EXTENT IN THE ITEM'S COORDINATE SYSTEM
* WEST LONGITUDE -19942579.088500
* EAST LONGITUDE 20012847.736000
* SOUTH LATITUDE 2023651.278000
* NORTH LATITUDE 11537091.729900
* EXTENT CONTAINS THE RESOURCE Yes

Resource Points of Contact

POINT OF CONTACT
ORGANIZATION'S NAME Experian
CONTACT'S ROLE resource provider
CONTACT INFORMATION
ONLINE RESOURCE
LOCATION <https://www.experian.com/automotive/vehicles-in-operation-vio-data>

POINT OF CONTACT

INDIVIDUAL'S NAME Systems Assessment Center
ORGANIZATION'S NAME Argonne National Laboratory
CONTACT'S ROLE processor
CONTACT INFORMATION
ADDRESS
TYPE
E-MAIL ADDRESS gohlke@anl.gov

Resource Maintenance

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

Resource Constraints

CONSTRAINTS

LIMITATIONS OF USE

The Motor Vehicle Data provided is solely for use in research activities and for use in producing statistical reports.

Spatial Reference

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_WGS_1984
- * PROJECTION WGS_1984_Web_Mercator_Auxiliary_Sphere
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102100
X ORIGIN -22041258.237715099
Y ORIGIN -30241100
XY SCALE 144148034.82858968
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.001
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true

LATEST WELL-KNOWN IDENTIFIER 3857

WELL-KNOWN TEXT PROJCS["WGS_1984_Web_Mercator_Auxiliary_Sphere",GEOGCS
["GCS_WGS_1984",DATUM["D_WGS_1984",SPHEROID
["WGS_1984",6378137.0,298.257223563]],PRIMEM["Greenwich",0.0],UNIT
["Degree",0.0174532925199433]],PROJECTION["Mercator_Auxiliary_Sphere"],PARAMETER
["False_Easting",0.0],PARAMETER["False_Northing",0.0],PARAMETER
["Central_Meridian",0.0],PARAMETER["Standard_Parallel_1",0.0],PARAMETER
["Auxiliary_Sphere_Type",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",3857]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 3857
- * CODESPACE EPSG
- * VERSION 8.8(9.3.1.2)

Spatial Data Properties

VECTOR

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME ev_registration_experian_231231_v2

- * OBJECT TYPE composite
- * OBJECT COUNT 3220

ARCgis FEATURE CLASS PROPERTIES

FEATURE CLASS NAME ev_registration_experian_231231_v2
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 3220
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

Distribution

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

Fields

DETAILS FOR OBJECT ev_registration_experian_231231_v2

* TYPE Feature Class
* ROW COUNT 3220

FIELD OBJECTID

* ALIAS Object ID
* DATA TYPE OID
* WIDTH 4
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Internal feature number.
* DESCRIPTION SOURCE
Esri
* DESCRIPTION OF VALUES
Sequential unique whole numbers that are automatically generated.

FIELD geoid

* ALIAS County FIPS Code
* DATA TYPE String
* WIDTH 5
* PRECISION 0
* SCALE 0

FIELD name

* ALIAS County Name
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD shape

* ALIAS shape
* DATA TYPE Geometry
* WIDTH 0
* PRECISION 0
* SCALE 0
* FIELD DESCRIPTION
Feature geometry.
* DESCRIPTION SOURCE
Esri
* DESCRIPTION OF VALUES
Coordinates defining the features.

FIELD [bev_share_2022](#)

- * [ALIAS](#) 2022 Battery Electric Vehicle Proportion of Registrations
- * [DATA TYPE](#) Double
- * [WIDTH](#) 8
- * [PRECISION](#) 0
- * [SCALE](#) 0

FIELD [phev_share_2022](#)

- * [ALIAS](#) 2022 Plug-in Hybrid Electric Vehicle Proportion of Registrations
- * [DATA TYPE](#) Double
- * [WIDTH](#) 8
- * [PRECISION](#) 0
- * [SCALE](#) 0

FIELD [pev_share_2022](#)

- * [ALIAS](#) 2022 Plug-in Electric Vehicle Proportion of Registrations
- * [DATA TYPE](#) Double
- * [WIDTH](#) 8
- * [PRECISION](#) 0
- * [SCALE](#) 0

FIELD [bev_share_2023](#)

- * [ALIAS](#) 2023 Battery Electric Vehicle Proportion of Registrations
- * [DATA TYPE](#) Double
- * [WIDTH](#) 8
- * [PRECISION](#) 0
- * [SCALE](#) 0

FIELD [phev_share_2023](#)

- * [ALIAS](#) 2023 Plug-in Hybrid Electric Vehicle Proportion of Registrations
- * [DATA TYPE](#) Double
- * [WIDTH](#) 8
- * [PRECISION](#) 0
- * [SCALE](#) 0

FIELD [pev_share_2023](#)

- * [ALIAS](#) 2023 Plug-in Electric Vehicle Proportion of Registrations
- * [DATA TYPE](#) Double
- * [WIDTH](#) 8
- * [PRECISION](#) 0
- * [SCALE](#) 0

FIELD [shape_Length](#)

- * [ALIAS](#) shape_Length
- * [DATA TYPE](#) Double
- * [WIDTH](#) 8
- * [PRECISION](#) 0
- * [SCALE](#) 0
- * [FIELD DESCRIPTION](#)
Length of feature in internal units.
- * [DESCRIPTION SOURCE](#)
Esri
- * [DESCRIPTION OF VALUES](#)
Positive real numbers that are automatically generated.

FIELD shape_Area

- * ALIAS shape_Area
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Area of feature in internal units squared.
- * DESCRIPTION SOURCE
Esri
- * DESCRIPTION OF VALUES
Positive real numbers that are automatically generated.

Metadata Details

- * METADATA LANGUAGE English (UNITED STATES)
- * METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format
- SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
- SCOPE NAME * dataset
- * LAST UPDATE 2024-03-28
- ARCGIS METADATA PROPERTIES
 - METADATA FORMAT ArcGIS 1.0
 - METADATA STYLE FGDC CSDGM Metadata
 - STANDARD OR PROFILE USED TO EDIT METADATA FGDC
 - CREATED IN ARCGIS FOR THE ITEM 2024-03-28
 - LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-03-28
 - AUTOMATIC UPDATES
 - HAVE BEEN PERFORMED Yes
 - LAST UPDATE 2024-03-28 13:24:13

Metadata Contacts

METADATA CONTACT

- INDIVIDUAL'S NAME Systems Assessment Center
- ORGANIZATION'S NAME Argonne National Laboratory
- CONTACT'S ROLE processor
- CONTACT INFORMATION
 - ADDRESS
 - TYPE
 - E-MAIL ADDRESS gohlke@anl.gov

Metadata Maintenance

- MAINTENANCE
 - UPDATE FREQUENCY as needed