EV and PHEV 2023 Registrations per Census Tract (RPC 2024)

Shapefile

Tags

Electric Vehicle, EV, PHEV, RPC, NORPC, Clean Cities Coalition, SELACFP

Summary

2023 EV and PHEV registration numbers for 2020 U.S. Census Tracts in southeast Louisiana to assist with the Clean Cities Coalition EV charger location planning.

Description

The New Orleans Regional Planning Commission (NORPC) staff joined 2023 Electric Vehicle (EV) and Plug-in Hybrid Electric Vehicle (PHEV) registration data to 2020 U.S. Census Tracts (tracts) to create the current layer.

EV and PHEV registration data is sourced from the Louisiana Office of Motor Vehicles (LA OMV) by Experian Automotive. The data has several attributes including fuel type, state, county, and tract ID of registration location. Rounded registration counts are created by the National Renewable Energy Laboratory (NREL), Experian Information Solutions. Through NREL's partnership with the U.S. Department of Energy (DOE), this EV registration derived data is made available (upon request) to the 100 Clean Cities Coalition members. The Southeast Louisiana Clean Fuel Partnership, 1 of the 100 Clean Cities in the DOE's Coalition, is housed at the NORPC office.

Tracts are are small, relatively permanent geographic entities within counties (or the statistical equivalents of counties) delineated by a committee of local data users. Generally, census tracts have between 2,500 and 8,000 residents and boundaries that follow visible features.

Six unmatched tracts (22051990000, 22051990100, 22071990000, 22075990000, 22087990000, and 22103990000) accounting for zero EV and zero PHEV registrations are not represented in the joined layer for the RPC region. These tracts represent open water areas, have zero population and thus zero vehicle registrations.

Credits

Rounded registration counts by the National Renewable Energy Laboratory, Experian Information Solutions, 2023
U.S. Census: Tracts, 2020
New Orleans Regional Planning Commission: Joined EV and PHEV registrations per Tracts, 2024

Use limitations

This data is for viewing only, not to be downloaded, or used for resale.

In order for the data to be made available for public viewing one or more of the following options were required by NREL:

1. Combine the vehicle in operation (VIO) data from Experian with another data set.

    -RPC joined to tracts.

2. Round up to the nearest tenth, hundredth, or thousandth.

    -RPC removed #EVs and #PHEVs in the table and created binned categories per fuel type, per tract as shown in the layer legend.

3. Value is represented in a percentage of EV and PHEV based on total vehicle registrations (including all fuel types) in the area [tract].

Extent
  West -90.688850   **East**   -88.758388
  North 31.000439   **South**   28.918623

Scale Range
  Maximum (zoomed in)   1:5,000
  Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE   transportation

* CONTENT TYPE   Downloadable Data
   EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION   No

Hide Topics and Keywords ▲

Citation ▶

TITLE   EV and PHEV 2023 Registrations per Census Tract (RPC 2024)
ALTERNATE TITLES   EV and PHEV 2023 Registrations per Census Tract (RPC 2024)
CREATION DATE   2024-11-04   00:00:00
PUBLICATION DATE   2024-11-05   00:00:00

EDITION DATE   2024-11-04

PRESENTATION FORMATS   * digital map

Hide Citation ▲

Citation Contacts ▶

RESPONSIBLE PARTY
  INDIVIDUAL'S NAME   Leslie Couvillion
  ORGANIZATION'S NAME   Regional Planning Commission

  CONTACT'S POSITION   GIS Coordinator
  CONTACT'S ROLE   originator

    CONTACT INFORMATION   ▶
      PHONE
        VOICE   504-483-8536

      ADDRESS
        TYPE   both
        DELIVERY POINT   10 Veterans Boulevard
        CITY   New Orleans
        ADMINISTRATIVE AREA   LA
        POSTAL CODE   70124
        COUNTRY   US
        E-MAIL ADDRESS   lcouvillion@norpc.org

      HOURS OF SERVICE
        9a-5p CST

Resource Details ▶

Extents ▶

EXTENT
    DESCRIPTION
        The New Orleans Regional Planning Commission and Southeast Louisiana Clean Fuels
        Partnership assist the parishes of Jefferson, Orleans, Plaquemines, St. Bernard, St.
        Charles, St. John the Baptist, St. Tammany, and Tangipahoa with transportation planning.

        EV and PHEV registration data collected from all four quarters of calendar year 2023.

        Tract boundaries were downloaded from 2020 U.S. Census TIGER files.

        The above two layers were joined by RPC staff and published in 2024.

    TEMPORAL EXTENT
        BEGINNING DATE   2023-01-01   00:00:00
        ENDING DATE   2023-12-31   00:00:00

EXTENT
    GEOGRAPHIC EXTENT
        BOUNDING RECTANGLE
            EXTENT TYPE   Extent used for searching
            * WEST LONGITUDE   -90.688850
            * EAST LONGITUDE   -88.758388
            * NORTH LATITUDE   31.000439
            * SOUTH LATITUDE   28.918623
            * EXTENT CONTAINS THE RESOURCE   Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM
    * WEST LONGITUDE   -90.688850
    * EAST LONGITUDE   -88.758388
    * SOUTH LATITUDE   28.918623
    * NORTH LATITUDE   31.000439
    * EXTENT CONTAINS THE RESOURCE   Yes

Resource Points of Contact ▶

POINT OF CONTACT
   INDIVIDUAL'S NAME   Leslie Couvillion
   ORGANIZATION'S NAME   Regional Planning Commission
   CONTACT'S POSITION   GIS Coordinator
   CONTACT'S ROLE   point of contact

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         E-MAIL ADDRESS   lcouvillion@norpc.org

      HOURS OF SERVICE
         9a-5p CST

Resource Maintenance ▶

RESOURCE MAINTENANCE
   UPDATE FREQUENCY   annually

Hide Resource Maintenance ▲

Resource Constraints ▶

CONSTRAINTS
   LIMITATIONS OF USE

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3. Value is represented in a percentage of EV and PHEV based on total vehicle registrations (including all fuel types) in the area [tract].

Spatial Reference ▶

ARCGIS COORDINATE SYSTEM
  * TYPE   Geographic
  * GEOGRAPHIC COORDINATE REFERENCE   GCS_North_American_1983
  * COORDINATE REFERENCE DETAILS
    GEOGRAPHIC COORDINATE SYSTEM
      WELL-KNOWN IDENTIFIER   4269
      X ORIGIN   -400
      Y ORIGIN   -400
      XY SCALE   11258999068426.238
      Z ORIGIN   -100000
      Z SCALE   10000
      M ORIGIN   -100000
      M SCALE   10000
      XY TOLERANCE   8.9831528411952133e-09
      Z TOLERANCE   0.001
      M TOLERANCE   0.001
      HIGH PRECISION   true
      LEFT LONGITUDE   -180
      LATEST WELL-KNOWN IDENTIFIER   4269
      WELL-KNOWN TEXT   GEOGCS["GCS_North_American_1983",DATUM
      ["D_North_American_1983",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM
      ["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4269]]

REFERENCE SYSTEM IDENTIFIER
  * VALUE   4269
  * CODESPACE   EPSG
  * VERSION   6.12(3.0.1)

Spatial Data Properties ▶

VECTOR   ▶
  * LEVEL OF TOPOLOGY FOR THIS DATASET   geometry only

GEOMETRIC OBJECTS
  FEATURE CLASS NAME   EvRegistration2023PerTract
  * OBJECT TYPE   composite
  * OBJECT COUNT   448

ARCGIS FEATURE CLASS PROPERTIES   ▶
  FEATURE CLASS NAME   EvRegistration2023PerTract
  * FEATURE TYPE   Simple
  * GEOMETRY TYPE   Polygon
  * HAS TOPOLOGY   FALSE
  * FEATURE COUNT   448
  * SPATIAL INDEX   TRUE
  * LINEAR REFERENCING   FALSE

Lineage ►

The New Orleans Regional Planning Commission (NORPC) staff joined 2023 Electric Vehicle (EV) and Plug-in Hybrid Electric Vehicle (PHEV) registration data to 2020 U.S. Census Tracts (tracts) to create the current layer.

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Distribution ►

DISTRIBUTION FORMAT
  * NAME   Shapefile

TRANSFER OPTIONS
  * TRANSFER SIZE   2.103

Hide Distribution ▲

Fields ►

DETAILS FOR OBJECT EvRegistration2023PerTract ►
  * TYPE   Feature Class
  * ROW COUNT   448

  FIELD FID ►
    * ALIAS   FID
    * 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.

Hide Field FID ▲

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.

Hide Field Shape ▲

FIELD GEOID ▶
* ALIAS   GEOID
* DATA TYPE   String
* WIDTH   11
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
  U.S. Census Tract Attribute

DESCRIPTION SOURCE
  U.S. Census 2020

Hide Field GEOID ▲

FIELD GEOIDFQ ▶
* ALIAS   GEOIDFQ
* DATA TYPE   String
* WIDTH   20
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
  U.S. Census Tract Attribute

DESCRIPTION SOURCE

U.S. Census 2020

FIELD NAMELSAD ►
   * ALIAS   NAMELSAD
   * DATA TYPE   String
   * WIDTH   20
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      U.S. Census Tract Attribute

   DESCRIPTION SOURCE
      U.S. Census 2020

FIELD ALAND ►
   * ALIAS   ALAND
   * DATA TYPE   Double
   * WIDTH   19
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      U.S. Census Tract Attribute

   DESCRIPTION SOURCE
      U.S. Census 2020

FIELD AWATER ►
   * ALIAS   AWATER
   * DATA TYPE   Double
   * WIDTH   19
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      U.S. Census Tract Attribute

   DESCRIPTION SOURCE
      U.S. Census 2020

FIELD INTPTLAT ►
   * ALIAS   INTPTLAT
   * DATA TYPE   String
   * WIDTH   11
   * PRECISION   0
   * SCALE   0
   FIELD DESCRIPTION
      U.S. Census Tract Attribute

DESCRIPTION SOURCE
U.S. Census 2020

Hide Field INTPTLAT ▲

FIELD INTPTLON ▶
* ALIAS   INTPTLON
* DATA TYPE   String
* WIDTH   12
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
U.S. Census Tract Attribute

DESCRIPTION SOURCE
U.S. Census 2020

Hide Field INTPTLON ▲

FIELD Census_Tra ▶
ALIAS   CensusTract
* DATA TYPE   Double
* WIDTH   19
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Census Tract ID

DESCRIPTION SOURCE
NORPC 2024

Hide Field Census_Tra ▲

FIELD BinElec ▶
ALIAS   EvRounded
* DATA TYPE   String
* WIDTH   20
* PRECISION   0
* SCALE   0
DESCRIPTION SOURCE
NORPC 2024

FIELD DESCRIPTION
Binned categories of number EV registrations per tract.

Hide Field BinElec ▲

FIELD BinPhev ▶
ALIAS   PhevRounded
* DATA TYPE   String
* WIDTH   20
* PRECISION   0
* SCALE   0
DESCRIPTION SOURCE
NORPC 2024

FIELD DESCRIPTION
Binned categories of number PHEV registrations per tract.

Hide Field BinPhev ▲

FIELD RpcParish ▶
* ALIAS   RpcParish
* DATA TYPE   String
* WIDTH   35
* PRECISION   0
* SCALE   0
FIELD DESCRIPTION
Name of the NORPC region Parish.

DESCRIPTION SOURCE
NORPC 2024

Hide Field RpcParish ▲

Hide Details for object EvRegistration2023PerTract ▲

Hide Fields ▲

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   2024-11-27

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   2024-11-26   16:03:41
LAST MODIFIED IN ARCGIS FOR THE ITEM   2024-11-27   10:31:50

AUTOMATIC UPDATES
HAVE BEEN PERFORMED   Yes
LAST UPDATE   2024-11-27   10:27:27

Hide Metadata Details ▲

Metadata Contacts ▶

METADATA CONTACT
INDIVIDUAL'S NAME   Leslie Couvillion
ORGANIZATION'S NAME   Regional Planning Commission
CONTACT'S POSITION   GIS Coordinator

CONTACT'S ROLE   point of contact

CONTACT INFORMATION   ▶
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ADDRESS
TYPE   both
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POSTAL CODE   70124
COUNTRY   US
E-MAIL ADDRESS   lcouvillion@norpc.org

HOURS OF SERVICE
9a-5p CST

Hide Contact information ▲

Hide Metadata Contacts ▲

Metadata Maintenance ▶

MAINTENANCE
UPDATE FREQUENCY   as needed

Hide Metadata Maintenance ▲

FGDC Metadata (read-only) ▼