

NC Utility Power Providers, August 2019 - NC Department of Transportation

File Geodatabase Feature Class



Tags

Power, Cooperative, Electric, Utility, Municipal, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS, Utilities & Communication, Boundaries

Summary

This dataset was originally created in January 2019 as part of the Project ATLAS initiative at NCDOT to support the Utilities group with project delivery in the development phase. The purpose of this layer is to provide NCDOT the ability to locate boundaries of service for Electric Power providers.

Description

NC Electric Cooperatives, municipalities and universities play a role in generating power for their respective communities. Using data sourced from <https://www.ncelectriccooperatives.com> and <https://www.carolinacountry.com/issues/2016/energy/a-guide-to-north-carolina-s-electric-power-providers> this data was developed to support easier access to contact providers for electric cooperatives and municipalities. Data is current as of July 2018.

More than 100 separately organized electric power providers serve nearly 10 million people in North Carolina. Each covers a designated service area, and depending upon where you live, your electric service could come from a consumer-owned electric cooperative, an investor-owned utility, your city government, a university-owned utility or some other utility operating in the state.

These are:

- Electric Cooperatives - 26 independent, not-for-profit electric power providers owned and governed by their local members serve approximately 1 million North Carolina homes, farms and businesses.
- Investor owned electric utilities - Dominion and Duke Energy (consisting of Duke Energy Carolinas & Duke Energy Progress) together serve nearly 4 million accounts.
- Municipal owned systems - More than 70 municipally-owned electric systems serve approximately 500,000 North Carolina households and businesses within some city and town limits.
- 6 of our state's universities serve their campuses with electric facilities that they own and operate within the municipal electric system structure.

Datasets developed under Project ATLAS do not replace any Utilities field work for future projects and may not be used as a replacement for site visits / field surveys by licensed professionals and hence should be used only as a supporting platform for decision making. Use of this dataset for project scoping or screening is merely pre-decisional.

Credits

The ATLAS Utilities group within NCDOT was tasked to create this dataset.

Annual maintenance of this dataset is handled by the Utilities Group. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

Use limitations

The North Carolina Department of Transportation shall not be held liable for any errors in this data. This includes errors of omission, commission, errors concerning the content of the data, and relative and positional accuracy of the data. This data cannot be construed to be a legal document. Primary sources from which this data was compiled must be consulted for verification of information contained in this data.

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Extent

West -84.422109 **East** -75.416032

North 36.617254 **South** 33.730554

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:625,000

ArcGIS Metadata ▶

Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE boundaries, utilitiesCommunication, location, transportation, environment

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

PLACE KEYWORDS North Carolina

THESAURUS ▶

TITLE User

PUBLICATION DATE 2019-08-28 00:00:00

CREATION DATE 2019-01-01 00:00:00

[Hide Thesaurus ▲](#)

THEME KEYWORDS Power, Cooperative, Electric, Utility, Municipal, Transportation, NCDOT, Environment, Location, North Carolina, ATLAS, Utilities & Communication, Boundaries

THESAURUS ▶

TITLE User

PUBLICATION DATE 2019-08-28 00:00:00

CREATION DATE 2019-01-01 00:00:00

[Hide Thesaurus ▲](#)

[Hide Topics and Keywords ▲](#)

Citation ▶

TITLE NC Utility Power Providers, August 2019 - NC Department of Transportation

CREATION DATE 2019-01-01 00:00:00

PUBLICATION DATE 2019-08-28 00:00:00

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

[Hide Citation ▲](#)

Citation Contacts ►

RESPONSIBLE PARTY

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS ATLAS@ncdot.gov

HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

CONTACT INSTRUCTIONS

Please send an email with any issues, questions or comments regarding the ATLAS Data Search Tool, ATLAS Screening Tool or ATLAS Workbench. If it is an immediate need, please call the contact number or indicate as such in the subject line in an email.

[Hide Contact information ▲](#)

RESPONSIBLE PARTY

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CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE point of contact

CONTACT INFORMATION ►

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CONTACT'S ROLE originator

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[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

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 10.8.1.14362

CREDITS

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Annual maintenance of this dataset is handled by the Utilities Group. Support and maintenance of the enterprise spatial database where this data resides is handled by NCDIT's Transportation GIS Unit.

[Hide Resource Details ▲](#)

Extents ►

EXTENT

DESCRIPTION

Data collection is complete.

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -84.422109

EAST LONGITUDE -75.416032

SOUTH LATITUDE 33.730554

NORTH LATITUDE 36.617254

EXTENT CONTAINS THE RESOURCE Yes

TEMPORAL EXTENT

BEGINNING DATE 2018-07-31 00:00:00

ENDING DATE 2018-07-31 00:00:00

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE -84.422109

* EAST LONGITUDE -75.416032

* NORTH LATITUDE 36.617254

* SOUTH LATITUDE 33.730554

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 406832.667400

* EAST LONGITUDE 3052480.071633

* SOUTH LATITUDE 34987.916111

* NORTH LATITUDE 1043624.438204

* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

POINT OF CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Utilities Group

CONTACT'S POSITION Environmental Program Consultant

CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

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[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY **annually**

SCOPE OF THE UPDATES **dataset**

OTHER MAINTENANCE REQUIREMENTS

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MAINTENANCE CONTACT

ORGANIZATION'S NAME **North Carolina Department of Transportation - Utilities Group**

CONTACT'S POSITION **Environmental Program Consultant**

CONTACT'S ROLE **originator**

CONTACT INFORMATION ►

PHONE

VOICE **919-707-6136**

ADDRESS

TYPE **physical**

DELIVERY POINT **Century Center Building B, 1020 Birch Ridge Drive**

CITY **Raleigh**

ADMINISTRATIVE AREA **NC**

POSTAL CODE **27610**

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[Hide Contact information ▲](#)

[Hide Resource Maintenance ▲](#)

Resource Constraints ►

LEGAL CONSTRAINTS

LIMITATIONS OF USE

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SECURITY CONSTRAINTS

CLASSIFICATION unclassified
CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Projected
- * GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
- * PROJECTION NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet
- * COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102719
X ORIGIN -121841900
Y ORIGIN -93659000
XY SCALE 36365718.124241434
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 0.0032808333333333331
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LATEST WELL-KNOWN IDENTIFIER 2264

WELL-KNOWN TEXT

PROJCS["NAD_1983_StatePlane_North_Carolina_FIPS_3200_Feet",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]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["False_Easting",2000000.002616666],PARAMETER["False_Northing",0.0],PARAMETER["Central_Meridian",-79.0],PARAMETER["Standard_Parallel_1",34.33333333333334],PARAMETER["Standard_Parallel_2",36.16666666666666],PARAMETER["Latitude_Of_Origin",33.75],UNIT["Foot_US",0.3048006096012192],AUTHORITY["EPSG",2264]]

REFERENCE SYSTEM IDENTIFIER

- VALUE 2264
- * CODESPACE EPSG

* VERSION 6.12(9.0.0)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME NCUtilPowerProviders

* OBJECT TYPE composite

* OBJECT COUNT 193

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME NCUtilPowerProviders

* FEATURE TYPE Simple

* GEOMETRY TYPE Polygon

* HAS TOPOLOGY FALSE

* FEATURE COUNT 193

* SPATIAL INDEX TRUE

* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL dataset

[Hide Scope of quality information ▲](#)

DATA QUALITY REPORT - FORMAL CONSISTENCY ►

MEASURE NAME Data Standards

MEASURE DESCRIPTION

The dataset is converted to file geodatabase (FGDB) format using tools in ArcGIS. The geometry is checked, and if needed repaired.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ►

TITLE NCDOT Geospatial Data Specifications

PUBLICATION DATE 2019-08-28 00:00:00
CREATION DATE 2019-01-01 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Formal consistency ▲](#)

DATA QUALITY REPORT - COMPLETENESS OMISSION ▶

MEASURE DESCRIPTION

After processing, the dataset is checked for drawing display and number of records and file sizes compared with source materials.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2019-01-01 00:00:00

PUBLICATION DATE 2019-08-28 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Completeness omission ▲](#)

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY ▶

MEASURE DESCRIPTION

Geometry checks were conducted using ESRI's Data Reviewer tool.

Quality checks on the data for completeness, consistency, positional and attribute accuracy were conducted by an outside contractor.

CONFORMANCE TEST RESULTS

TEST PASSED Yes

RESULT EXPLANATION

Pass

PRODUCT SPECIFICATION ▶

TITLE NCDOT Geospatial Data Specifications

CREATION DATE 2019-01-01 00:00:00

PUBLICATION DATE 2019-08-28 00:00:00

[Hide Product specification ▲](#)

[Hide Data quality report - Quantitative attribute accuracy ▲](#)

[Hide Data Quality ▲](#)

Lineage ►

LINEAGE STATEMENT

Data was sourced from <https://www.ncelectriccooperatives.com> and <https://www.carolinacountry.com/issues/2016/energy/a-guide-to-north-carolina-s-electric-power-providers>.
PDF maps were downloaded from these websites and georeferenced to get to the current dataset.

PROCESS STEP ►

DESCRIPTION

Maps were available at <https://www.ncelectriccooperatives.com> and <https://www.carolinacountry.com/issues/2016/energy/a-guide-to-north-carolina-s-electric-power-providers>.

PDF maps were downloaded and georeferenced to get to the current dataset.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Utilities Group
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

COUNTRY US

E-MAIL ADDRESS ATLAS@ncdot.gov

HOURS OF SERVICE

9:00am – 5:00pm Monday - Friday

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

PROCESS STEP ►

DESCRIPTION

Point data was reviewed in ESRI's Data Reviewer tool to verify geometry.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Utilities Group
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

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[Hide Process step ▲](#)

PROCESS STEP ▶

DESCRIPTION

Geodatabase was forwarded on to the GIS Unit for publishing as part of data for project ATLAS.

PROCESS CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - Utilities Group
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE originator

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[Hide Contact information ▲](#)

[Hide Process step ▲](#)

[Hide Lineage ▲](#)

Distribution ►

DISTRIBUTOR ►

CONTACT INFORMATION

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE distributor

CONTACT INFORMATION ►

PHONE

VOICE 919-707-6136

ADDRESS

TYPE physical

DELIVERY POINT Century Center Building B, 1020 Birch Ridge Drive

CITY Raleigh

ADMINISTRATIVE AREA NC

POSTAL CODE 27610

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[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT

* NAME File Geodatabase Feature Class

VERSION 10.5

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [NCUtilPowerProviders](#) ►

* TYPE Feature Class

* ROW COUNT 193

DEFINITION

NC boundaries of service for Electric Power providers

DEFINITION SOURCE

NCDOT

FIELD OBJECTID ►

* ALIAS OBJECTID

* 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 OBJECTID ▲

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 County ►

* ALIAS CountyName

* DATA TYPE String

* WIDTH 15

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Name of any one of the counties that falls within the boundary.

DESCRIPTION SOURCE

NCDOT

[Hide Field County ▲](#)

FIELD DOTDiv ►

ALIAS DOTDivision
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

NCDOT Division that the county falls under

DESCRIPTION SOURCE

NCDOT

[Hide Field DOTDiv ▲](#)

FIELD CoopName ►

ALIAS CooperativeName
* DATA TYPE String
* WIDTH 100
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Name of entity that generates power.

DESCRIPTION SOURCE

NCDOT

[Hide Field CoopName ▲](#)

FIELD Phone ►

* ALIAS ContactNumber
* DATA TYPE String
* WIDTH 12
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

10 digit Contact Phone Number

DESCRIPTION SOURCE

NCDOT

LIST OF VALUES

VALUE 10 digit phone number

DESCRIPTION 10 digit phone number in the format 999-999-9999

ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field Phone ▲](#)

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.

Hide Field Shape_Length ▲

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.

Hide Field Shape_Area ▲

FIELD ProvType ►

- ALIAS ProviderType
- * DATA TYPE String
- * WIDTH 20
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Electric power provider type
- DESCRIPTION SOURCE
NCDOT
- LIST OF VALUES
- VALUE Electric cooperatives
DESCRIPTION Electric cooperatives
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
- VALUE Investor owned
DESCRIPTION Investor owned electric utilities
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT
- VALUE Municipal owned
DESCRIPTION Municipal owned systems
ENUMERATED DOMAIN VALUE DEFINITION SOURCE NCDOT

[Hide Field ProvType ▲](#)

[Hide Details for object NCUtlPowerProviders ▲](#)

[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 2024-02-01

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE ISO 19139 Metadata Implementation Specification
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139

CREATED IN ARCGIS FOR THE ITEM 2024-02-02 10:12:58
LAST MODIFIED IN ARCGIS FOR THE ITEM 2024-02-01 16:03:44

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2024-02-01 16:03:44

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

ORGANIZATION'S NAME North Carolina Department of Transportation - EAU Mitigation and Modeling Unit
CONTACT'S POSITION Environmental Program Consultant
CONTACT'S ROLE point of contact

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Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

OTHER MAINTENANCE REQUIREMENTS

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[Hide Metadata Maintenance ▲](#)

Metadata Constraints ►

SECURITY CONSTRAINTS

CLASSIFICATION unclassified

CLASSIFICATION SYSTEM None

LIMITATIONS OF USE

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