

MS_TransmissionLines_2021

Shapefile



Tags

homeland security, homeland defense, transmission, energy infrastructure, electricity, homeland security, owners, emergency response, voltage, owners, voltage, transmission, kilovolts, homeland security, energy infrastructure, owners, kilovolts, power lines, voltage, homeland security, homeland defense, emergency response, transmission lines, homeland defense, energy infrastructure, owners, transmission, kilovolts, electricity, kilovolts, energy infrastructure, power lines, transmission lines, homeland security, homeland defense, emergency response, homeland security, kilovolts, voltage, voltage, homeland defense, transmission lines, homeland defense, kilovolts, electricity, homeland security, kilovolts, energy infrastructure, voltage, electricity, electricity, homeland security, emergency response, transmission, voltage, energy infrastructure, transmission lines, power lines, owners, power lines, kilovolts, energy infrastructure, power lines, voltage, homeland defense, power lines, transmission, kilovolts, voltage, emergency response, owners, voltage, energy infrastructure, electricity, voltage, power lines, transmission, emergency response, transmission, transmission lines, energy infrastructure, electricity, transmission lines, emergency response, electricity, homeland defense, kilovolts, owners, homeland defense, electricity, homeland defense, homeland security, electricity, power lines, power lines, owners, emergency response, transmission, homeland defense, homeland security, electricity, transmission lines, power lines, emergency response, energy infrastructure, owners, emergency response, transmission, transmission lines, homeland security, transmission, power lines, kilovolts, transmission lines, owners, transmission lines, transmission, owners, emergency response, energy infrastructure, transmission lines

Summary

This feature class/shapefile is for the Homeland Infrastructure Foundation Level Database (HIFLD) (<https://gii.dhs.gov/HIFLD>) as well as the Energy modelling and simulation community. *** NOTE: November, 16, 2021 - MARIS staff downloaded the national layer. They projected it into MSTM projection then clipped it on the MS State Border. This dataset seems to be as accurate as our 2010 layer and includes new and additional lines as well as many attributes. *****

Description

This feature class/shapefile represents electric power transmission lines. Transmission Lines are the system of structures, wires, insulators and associated hardware that carry electric energy from one point to another in an electric power system. Lines are operated at relatively high voltages varying from 69 kV up to 765 kV, and are capable of transmitting large quantities of electricity over long distances. Underground transmission lines are included where sources were available. The following updates have been made since the previous release: 6,457 features added.

Credits

Oak Ridge National Laboratory (ORNL), Los Alamos National Laboratory (LANL), Idaho National Laboratory (INL), National Geospatial-Intelligence Agency (NGA) Homeland Security Infrastructure Program (HSIP) Team, MARIS

Use limitations

None (Public Use). Users are advised to read the data set's metadata thoroughly to understand appropriate use and data limitations.

Extent

West -91.514673 **East** -88.108393

North 35.004696 **South** 30.200285

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 structure, utilitiesCommunication

* CONTENT TYPE Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

OTHER KEYWORDS homeland security, energy infrastructure, electricity, power lines, kilovolts, emergency response, voltage, homeland defense, transmission lines, transmission, owners

OTHER KEYWORDS energy infrastructure, voltage, owners, homeland security, electricity, power lines, homeland defense, transmission, kilovolts, emergency response, transmission lines

OTHER KEYWORDS transmission lines, energy infrastructure, owners, homeland security, electricity, voltage, homeland defense, power lines, emergency response, transmission, kilovolts

OTHER KEYWORDS homeland security, homeland defense, emergency response, voltage, kilovolts, transmission, power lines, electricity, owners, transmission lines, energy infrastructure

OTHER KEYWORDS transmission, energy infrastructure, homeland defense, kilovolts, homeland security, voltage, owners, power lines, electricity, emergency response, transmission lines

OTHER KEYWORDS transmission, electricity, energy infrastructure, voltage, transmission lines, emergency response, homeland defense, kilovolts, homeland security, power lines, owners

OTHER KEYWORDS homeland security, kilovolts, emergency response, transmission lines, homeland defense, energy infrastructure, voltage, power lines, transmission, electricity, owners

OTHER KEYWORDS owners, voltage, homeland defense, kilovolts, homeland security, transmission lines, transmission, energy infrastructure, electricity, power lines, emergency response

OTHER KEYWORDS power lines, emergency response, transmission lines, kilovolts, electricity, voltage, homeland defense, homeland security, energy infrastructure, owners, transmission

OTHER KEYWORDS owners, kilovolts, voltage, homeland security, power lines, transmission lines, energy infrastructure, homeland defense, emergency response, transmission, electricity

OTHER KEYWORDS homeland defense, kilovolts, emergency response, voltage, energy infrastructure, owners, transmission, electricity, power lines, homeland security, transmission lines

[Hide Topics and Keywords ▲](#)

Citation ►

* **TITLE** MS_TransmissionLines_2021
PUBLICATION DATE 2021-06-29 00:00:00

PRESENTATION FORMATS digital map

[Hide Citation ▲](#)

Resource Details ►

DATASET LANGUAGES English (UNITED STATES)
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE vector

* **PROCESSING ENVIRONMENT** Version 6.2 (Build 9200) ; Esri ArcGIS 10.8.1.14362

CREDITS

Oak Ridge National Laboratory (ORNL), Los Alamos National Laboratory (LANL), Idaho National Laboratory (INL), National Geospatial-Intelligence Agency (NGA) Homeland Security Infrastructure Program (HSIP) Team, MARIS

ARCGIS ITEM PROPERTIES

* **NAME** MS_TransmissionLines_2021
* **SIZE** 0.570
* **LOCATION** file:///\\DESKTOP-TP9LNVL\F\$\DATA\00_UTILITYCOMM\HIFLD_Elec_Transmission_2021\MS_TransmissionLines_2021.shp
* **ACCESS PROTOCOL** Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE -159.779336

EAST LONGITUDE 144.823499

SOUTH LATITUDE 13.447581

NORTH LATITUDE 65.01721

EXTENT CONTAINS THE RESOURCE Yes

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching
* WEST LONGITUDE -91.514673
* EAST LONGITUDE -88.108393
* NORTH LATITUDE 35.004696
* SOUTH LATITUDE 30.200285
* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 338908.335320
* EAST LONGITUDE 649853.064452
* SOUTH LATITUDE 1046243.561533
* NORTH LATITUDE 1577769.618533
* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

None (Public Use). Users are advised to read the data set's metadata thoroughly to understand appropriate use and data limitations.

[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

* TYPE Projected
* GEOGRAPHIC COORDINATE REFERENCE GCS_North_American_1983
* PROJECTION NAD_1983_Mississippi_TM
* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 102609
X ORIGIN -5122200
Y ORIGIN -12297100
XY SCALE 450339697.45066422
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 3814

WELL-KNOWN TEXT

PROJCS["NAD_1983_Mississippi_TM",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["Transverse_Mercator"],PARAMETER["False_Easting",500000.0],PARAMETER["False_Northing",1300000.

0],PARAMETER["Central_Meridian",-89.75],PARAMETER["Scale_Factor",0.9998335],PARAMETER["Latitude_Of_Origin",32.5],UNIT["Meter",1.0],AUTHORITY["EPSG",3814]]

REFERENCE SYSTEM IDENTIFIER

VALUE 4326

* CODESPACE EPSG

* VERSION 6.17.1(10.0.0)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

* LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME MS_TransmissionLines_2021

* OBJECT TYPE composite

* OBJECT COUNT 1515

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME MS_TransmissionLines_2021

* FEATURE TYPE Simple

* GEOMETRY TYPE Polyline

* HAS TOPOLOGY FALSE

* FEATURE COUNT 1515

* SPATIAL INDEX TRUE

* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Geoprocessing history ►

PROCESS

PROCESS NAME

DATE 2021-11-16 11:22:38

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.8\ArcToolbox\Toolboxes\Analysis Tools.tbx\Clip

COMMAND ISSUED

Clip US_Transmission_lines_mstm MS_StateOutline_2015

F:\DATA\00_UTILTYCOMM\HIFLD_Elec_Transmission_2021\MS_TransmissionLines_2021.shp #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTION FORMAT

* NAME Shapefile

VERSION 10.8.1

TRANSFER OPTIONS

* TRANSFER SIZE 0.570

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [MS_TransmissionLines_2021](#) ►

* TYPE Feature Class

* ROW COUNT 1515

DEFINITION

transmission lines

DEFINITION SOURCE

MARIS

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 OBJECTID ►

* ALIAS OBJECTID
* DATA TYPE Integer
* WIDTH 5
* PRECISION 5
* SCALE 0

Hide Field OBJECTID ▲

FIELD ID ►

* ALIAS ID
* DATA TYPE String
* WIDTH 6
* PRECISION 0
* SCALE 0

Hide Field ID ▲

FIELD TYPE ►

* ALIAS TYPE
* DATA TYPE String
* WIDTH 15
* PRECISION 0
* SCALE 0

Hide Field TYPE ▲

FIELD STATUS ►

* ALIAS STATUS
* DATA TYPE String
* WIDTH 13
* PRECISION 0
* SCALE 0

Hide Field STATUS ▲

FIELD NAICS_CODE ►

- * ALIAS NAICS_CODE
- * DATA TYPE String
- * WIDTH 6
- * PRECISION 0
- * SCALE 0

Hide Field NAICS_CODE ▲

FIELD NAICS_DESC ►

- * ALIAS NAICS_DESC
- * DATA TYPE String
- * WIDTH 44
- * PRECISION 0
- * SCALE 0

Hide Field NAICS_DESC ▲

FIELD SOURCE ►

- * ALIAS SOURCE
- * DATA TYPE String
- * WIDTH 237
- * PRECISION 0
- * SCALE 0

Hide Field SOURCE ▲

FIELD SOURCEDATE ►

- * ALIAS SOURCEDATE
- * DATA TYPE Date
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

Hide Field SOURCEDATE ▲

FIELD VAL_METHOD ►

- * ALIAS VAL_METHOD
- * DATA TYPE String
- * WIDTH 13
- * PRECISION 0
- * SCALE 0

Hide Field VAL_METHOD ▲

FIELD VAL_DATE ►

- * ALIAS VAL_DATE
- * DATA TYPE Date
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

Hide Field VAL_DATE ▲

FIELD OWNER ►

- * ALIAS OWNER
- * DATA TYPE String
- * WIDTH 62
- * PRECISION 0
- * SCALE 0

Hide Field OWNER ▲

FIELD VOLTAGE ►

- * ALIAS VOLTAGE
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 18
- * SCALE 15

Hide Field VOLTAGE ▲

FIELD VOLT_CLASS ►

- * ALIAS VOLT_CLASS
- * DATA TYPE String
- * WIDTH 13
- * PRECISION 0
- * SCALE 0

Hide Field VOLT_CLASS ▲

FIELD INFERRED ►

- * ALIAS INFERRED
- * DATA TYPE String
- * WIDTH 1
- * PRECISION 0
- * SCALE 0

Hide Field INFERRED ▲

FIELD SUB_1 ►

- * ALIAS SUB_1
- * DATA TYPE String
- * WIDTH 43
- * PRECISION 0
- * SCALE 0

Hide Field SUB_1 ▲

FIELD SUB_2 ►

- * ALIAS SUB_2
- * DATA TYPE String
- * WIDTH 43
- * PRECISION 0
- * SCALE 0

Hide Field SUB_2 ▲

FIELD SHAPE_Leng ►

- * ALIAS SHAPE_Leng
- * DATA TYPE Double
- * WIDTH 19
- * PRECISION 18
- * SCALE 15

FIELD DESCRIPTION

length of segment

DESCRIPTION SOURCE

ESRI

DESCRIPTION OF VALUES

length

Hide Field SHAPE_Leng ▲

Hide Details for object MS_TransmissionLines_2021 ▲

Hide Fields ▲

Metadata Details ►

METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER 1594235390954r5280267917128978

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME * dataset

* LAST UPDATE 2021-11-16

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 2021-11-16 11:20:23

LAST MODIFIED IN ARCGIS FOR THE ITEM 2021-11-16 11:34:52

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2021-11-16 11:27:34

[Hide Metadata Details ▲](#)

Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME Steve Walker

ORGANIZATION'S NAME MARIS

CONTACT'S POSITION GIS Operations Manager

CONTACT'S ROLE distributor

CONTACT INFORMATION ►

PHONE

VOICE 601-432-6149

ADDRESS

TYPE

E-MAIL ADDRESS swalker@mississippi.edu

[Hide Contact information ▲](#)

METADATA CONTACT

ORGANIZATION'S NAME U.S. Department of Commerce, U.S. Census Bureau, Geography Division, Spatial Data Collection and Products Branch

INDIVIDUAL'S NAME ...

CONTACT'S ROLE resource provider

CONTACT INFORMATION ►

PHONE

VOICE 301-763-1128

FAX 301-763-4710

ADDRESS

TYPE physical

DELIVERY POINT 4600 Silver Hill Road, Stop 7400
CITY Washington DC
POSTAL CODE 20233-7400
COUNTRY US
E-MAIL ADDRESS geo.geography@census.gov

[Hide Contact information ▲](#)

[Hide Metadata Contacts ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL
THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

FGDC Metadata (read-only) ▼

DETAILED DESCRIPTION
ENTITY TYPE
ENTITY TYPE LABEL MS_TransmissionLines_2021
ENTITY TYPE DEFINITION
transmission lines
ENTITY TYPE DEFINITION SOURCE MARIS

ATTRIBUTE
ATTRIBUTE LABEL FID
ATTRIBUTE DEFINITION
Internal feature number.
ATTRIBUTE DEFINITION SOURCE Esri
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Sequential unique whole numbers that are automatically generated.

ATTRIBUTE
ATTRIBUTE LABEL Shape
ATTRIBUTE DEFINITION
Feature geometry.
ATTRIBUTE DEFINITION SOURCE Esri
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
Coordinates defining the features.

ATTRIBUTE
ATTRIBUTE LABEL OBJECTID

ATTRIBUTE
ATTRIBUTE LABEL ID

ATTRIBUTE
ATTRIBUTE LABEL TYPE

ATTRIBUTE
ATTRIBUTE LABEL STATUS

ATTRIBUTE
ATTRIBUTE LABEL NAICS_CODE

ATTRIBUTE
ATTRIBUTE LABEL NAICS_DESC

ATTRIBUTE
ATTRIBUTE LABEL SOURCE

ATTRIBUTE
ATTRIBUTE LABEL SOURCEDATE

ATTRIBUTE
ATTRIBUTE LABEL VAL_METHOD

ATTRIBUTE
ATTRIBUTE LABEL VAL_DATE

ATTRIBUTE
ATTRIBUTE LABEL OWNER

ATTRIBUTE
ATTRIBUTE LABEL VOLTAGE

ATTRIBUTE
ATTRIBUTE LABEL VOLT_CLASS

ATTRIBUTE
ATTRIBUTE LABEL INFERRED

ATTRIBUTE
ATTRIBUTE LABEL SUB_1

ATTRIBUTE
ATTRIBUTE LABEL SUB_2

ATTRIBUTE
ATTRIBUTE LABEL SHAPE_Leng
ATTRIBUTE DEFINITION
length of segment
ATTRIBUTE DEFINITION SOURCE ESRI
ATTRIBUTE DOMAIN VALUES
UNREPRESENTABLE DOMAIN
length

[Hide Entities and Attributes ▲](#)