INL/RPT-25-87920
Revision 0

Advanced Conductor Scan Report Addendum

State-Level Maps of Reconductoring Potential

August 2025

Taylor Nelson
Jonathan Tacke
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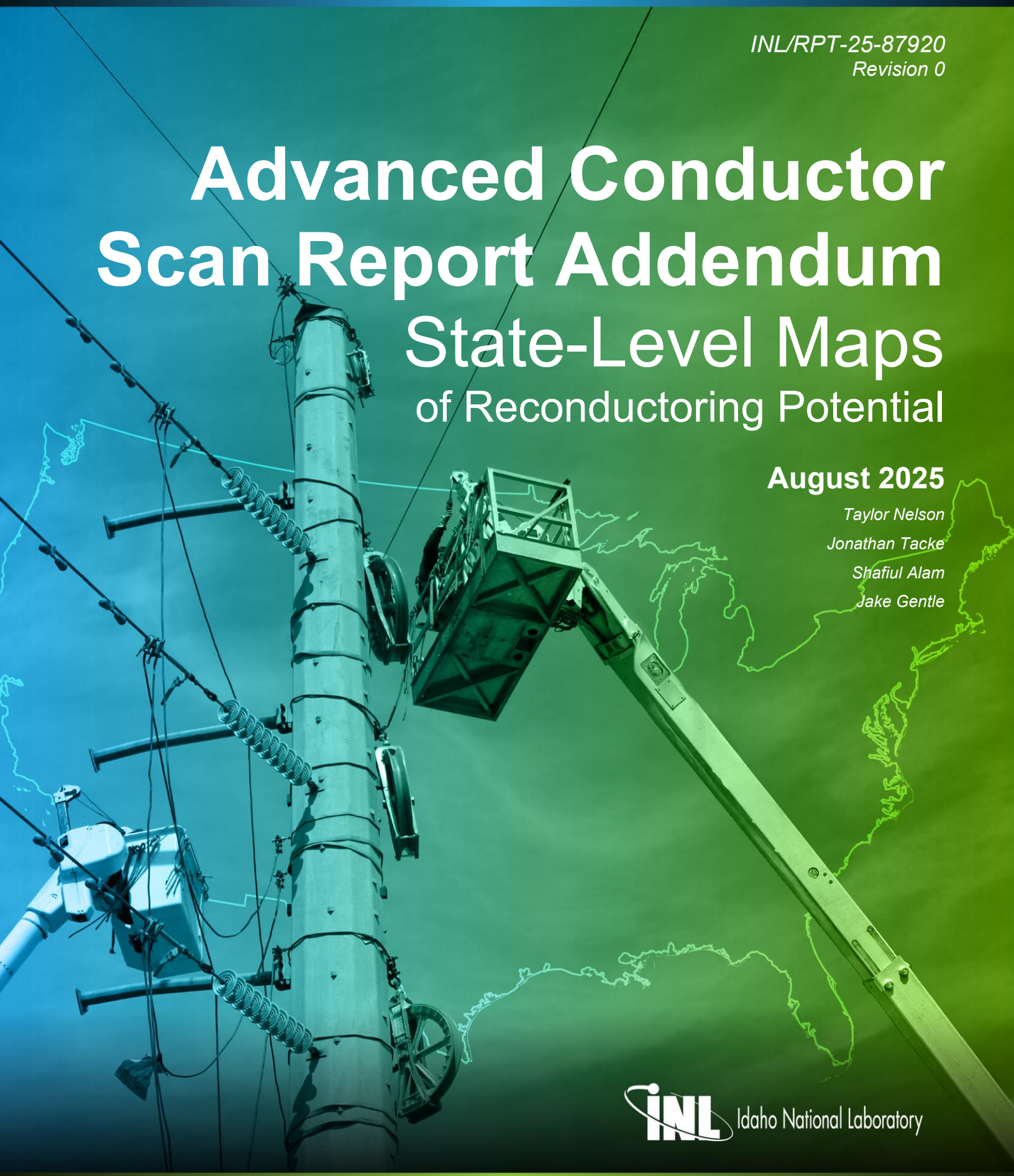

Idaho National Laboratory

INL/RPT-25-87920

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State-Level Maps of Reconductoring Potential

August 2025

Idaho National Laboratory
Idaho Falls, Idaho 83415

http://www.inl.gov

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FOREWORD

In 2024, the Idaho National Laboratory (INL) published "*Advanced Conductor Scan Report*" (INL/RPT-23-75873) a survey styled report overviewing the current trends in the overhead conductor industry and the technologies that are rapidly seeing commercial adoption. In that report, reconductoring was identified as one of the primary use cases for these conductors. Reconductoring is an attractive option for transmission owners to rapidly decongest their transmission systems and achieve increased capacity, particularly for short lines. The term 'short line' does not have a rigorous definition in industry; however, it is generally considered to mean lines and line segments that are shorter than 50 miles between substations. Using this definition, the report estimates roughly 117,500 miles of transmission line in the United States (U.S.) are candidates for reconductoring. This does not imply that all lines *should* or even *can* be reconductored. Rather, this is an estimate of how many miles of lines meet the basic criteria for a potential reconductoring project.

Following publication of that 2024 report, INL was contacted by several industry stakeholders about clarifying this reconductoring potential. Specifically, a desire was expressed for the reconductoring candidates to be identified on a per-state basis, as well as by voltage level. Therefore, this addendum was commissioned by the Department of Energy's Office of Electricity (OE), asking INL to make a closer examination of the potential to reconductor segments of transmission lines in the U.S., and provide this information in an easily accessible visual format. Included in this addendum are maps from all 50 states and Puerto Rico. These maps show the locations of all short line segments in each state, color-coded according to voltage level. Additionally, each state map includes the total number of miles for that state.

The maps in this addendum were generated from information contained in the Homeland Infrastructure Foundation-Level Data (HIFLD) Transmission Lines data set. HIFLD is curated and maintained by the Geospatial Management Office under the Department of Homeland Security. The tool features the best available geospatial data for a broad range of critical infrastructure assets. The Transmission Lines data set features geospatial information for all publicly listed transmission lines in the U.S. with voltages higher than 34 kV; however the information for lines at the 34.5-kV level should not be assumed to be exhaustive. This data set is updated regularly and the information used for the maps herein is accurate as of January 2025.

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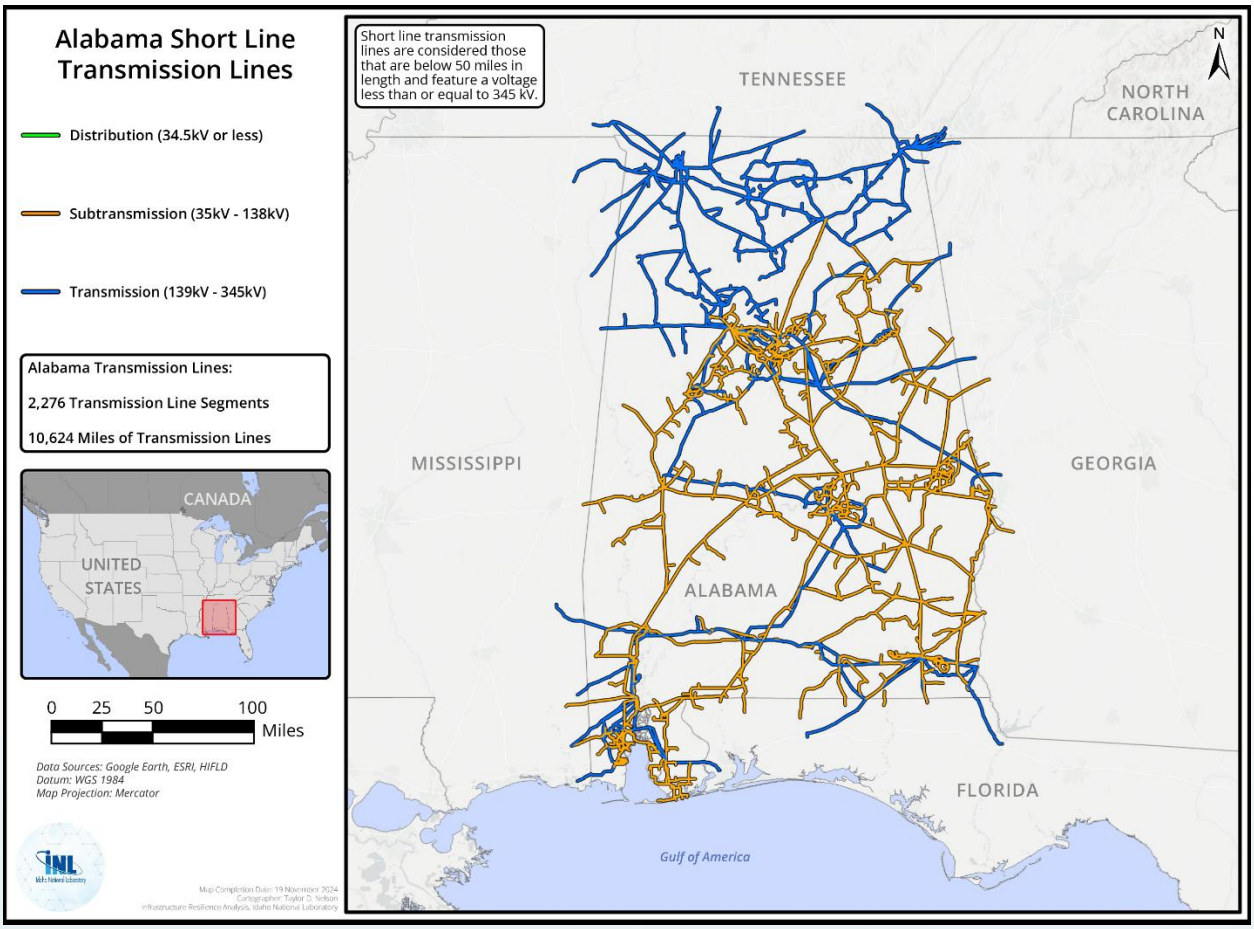
Advanced Conductor Scan Report Addendum

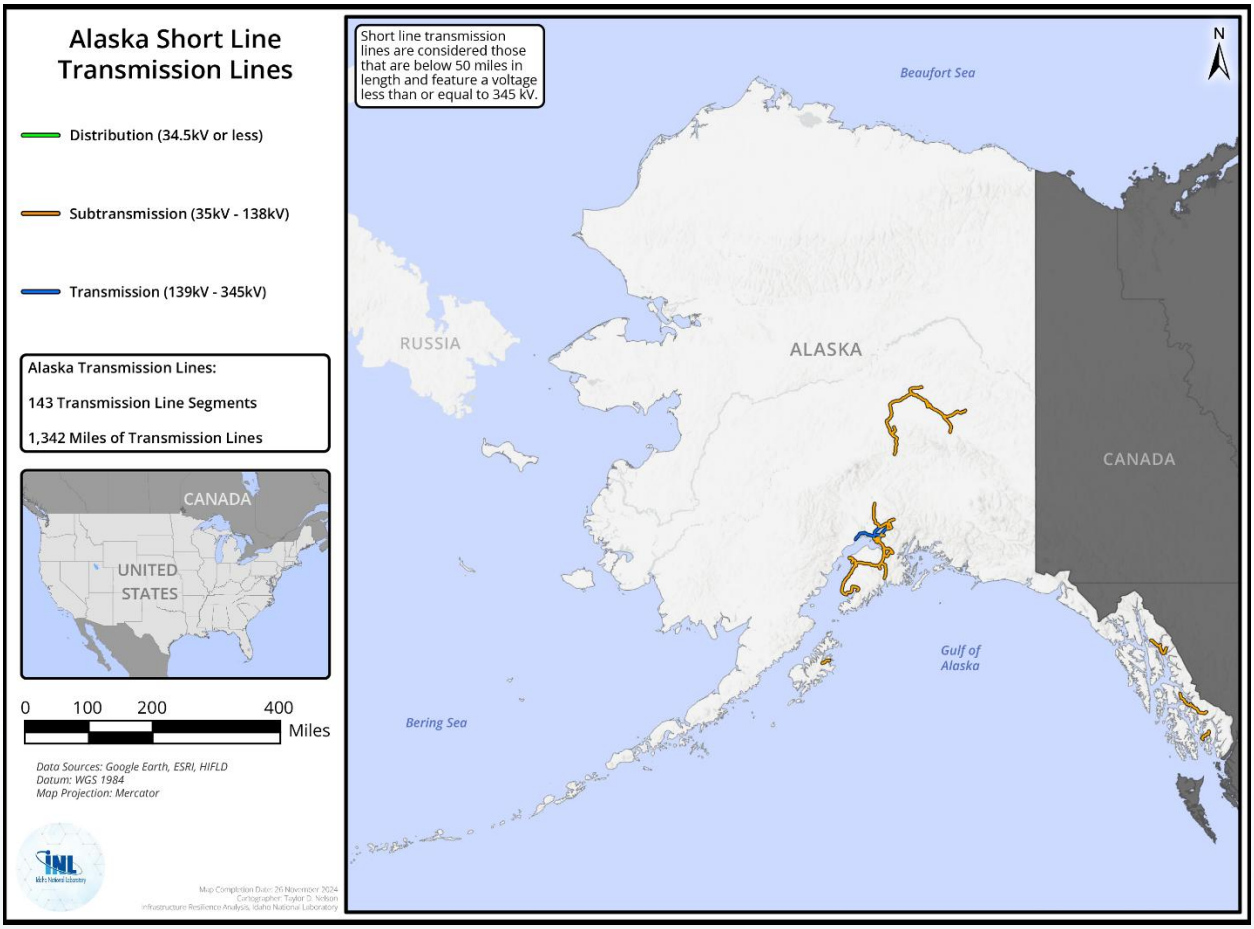
State-Level Maps

of Reconductoring Potential

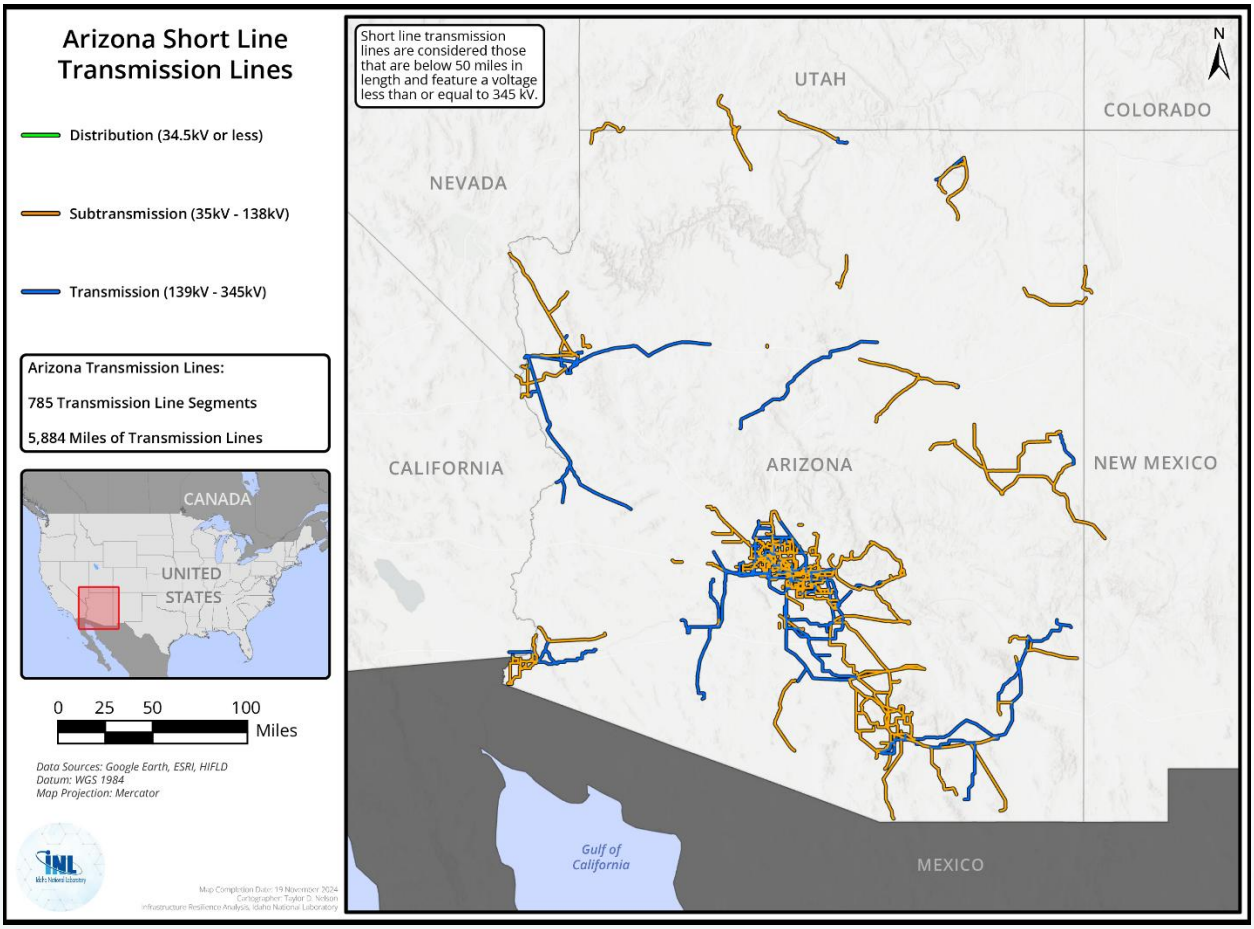
ALABAMA



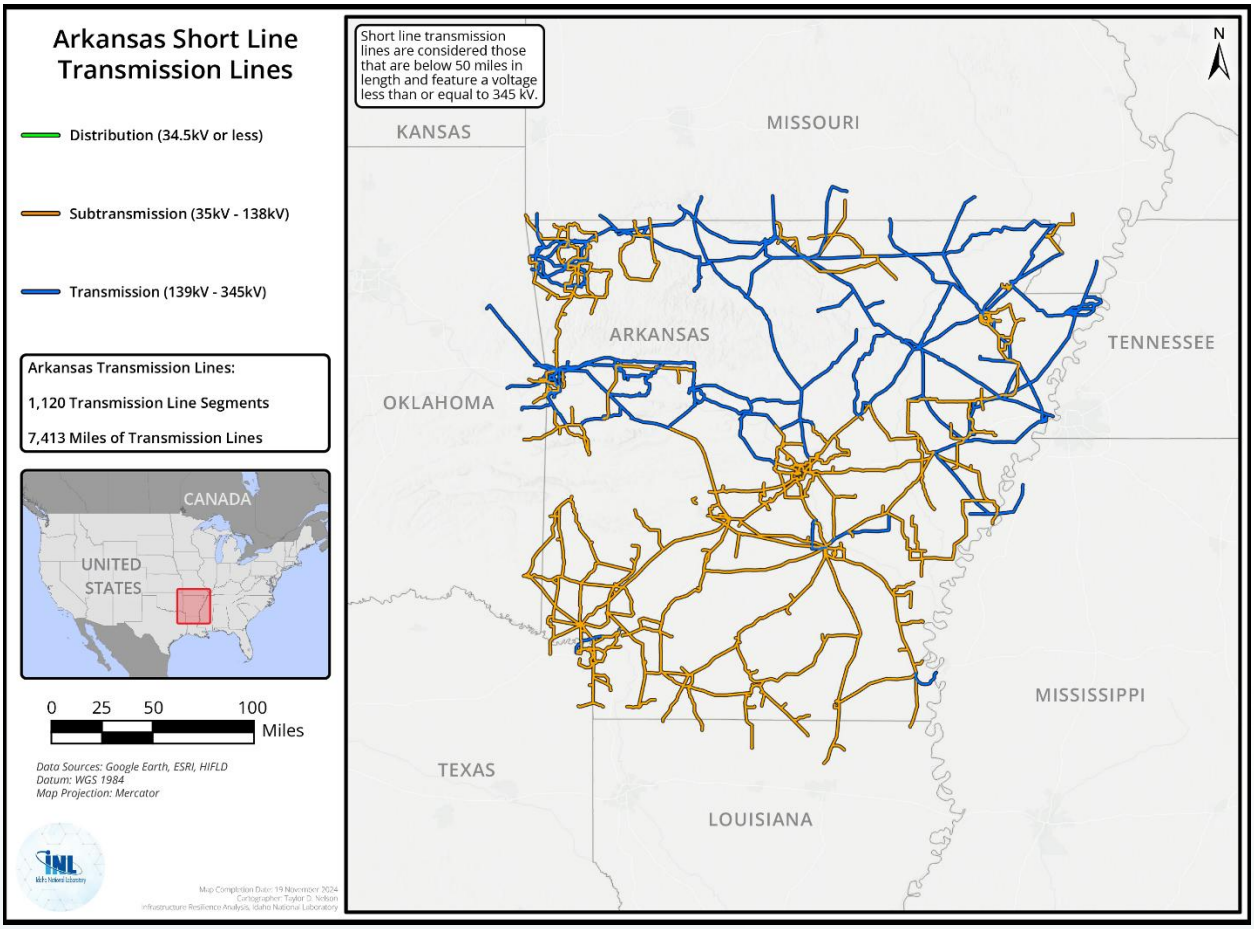
ALASKA


Alaska Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Alaska Transmission Lines:
143 Transmission Line Segments
1,342 Miles of Transmission Lines
CANADA
UNITED STATES
0 100 200 400
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
Beaufort Sea
RUSSIA
ALASKA
CANADA
Gulf of Alaska
Bering Sea

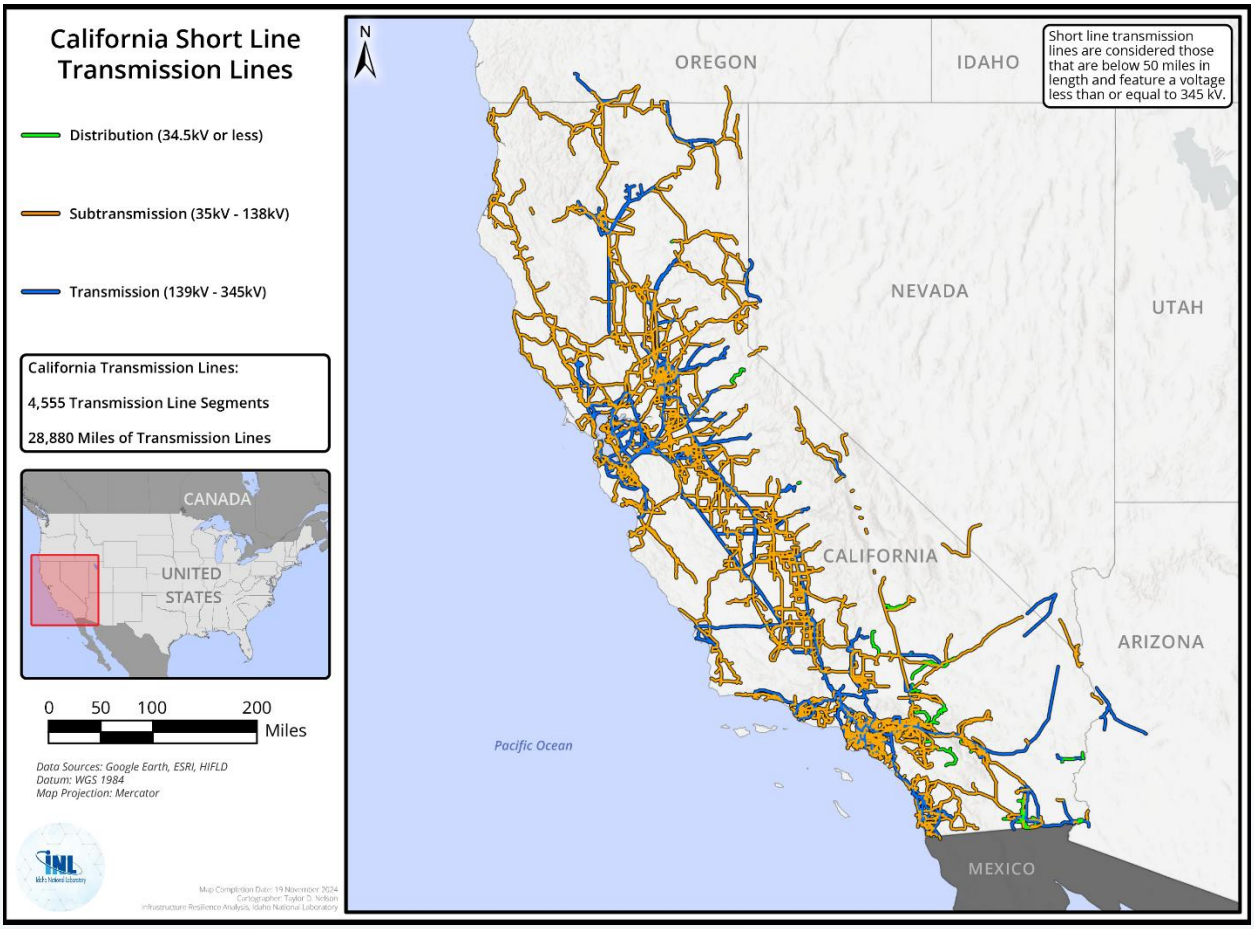
ARIZONA


Arizona Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Arizona Transmission Lines:
785 Transmission Line Segments
5,884 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
UTAH
COLORADO
NEVADA
CALIFORNIA
ARIZONA
NEW MEXICO
Gulf of California
MEXICO

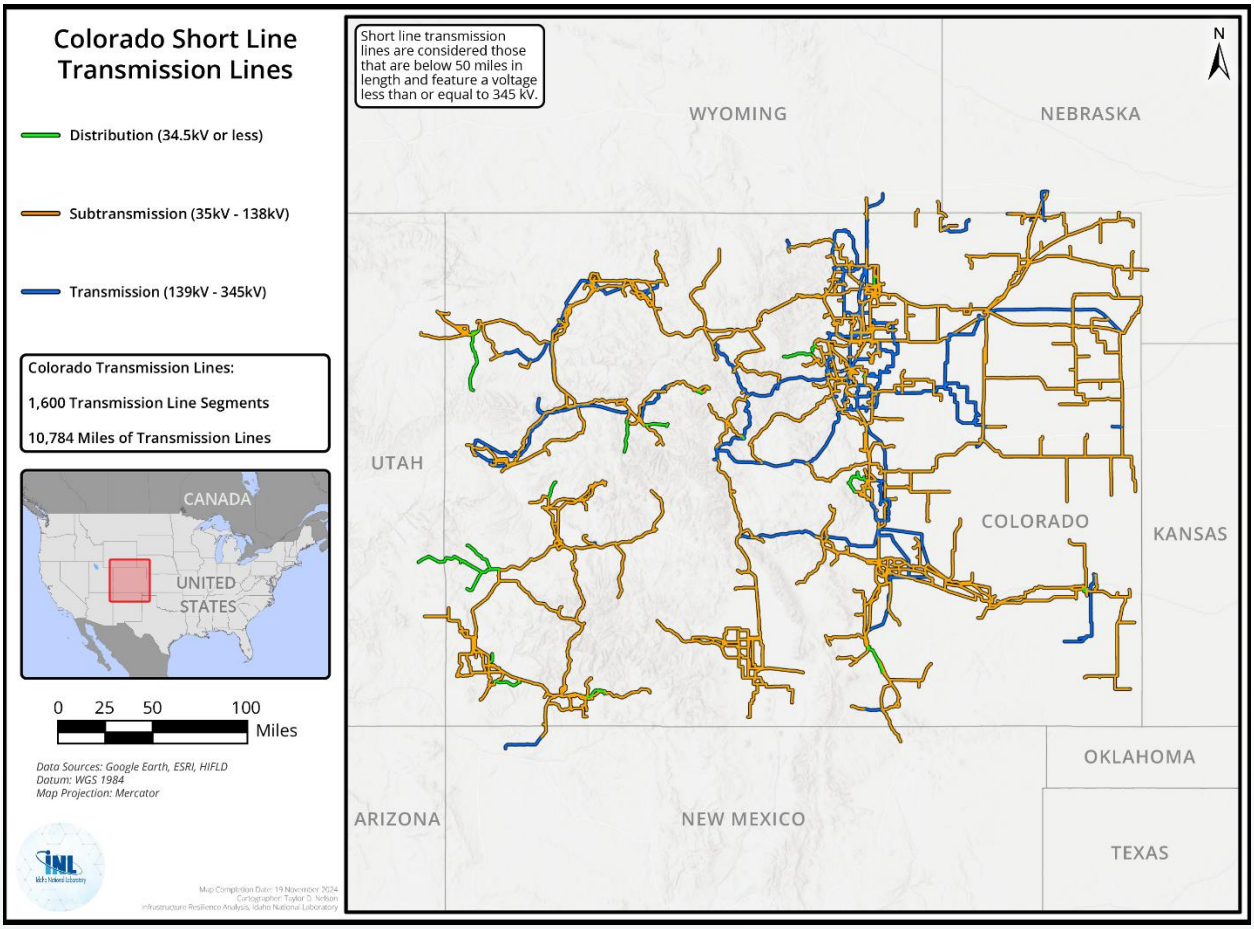
ARKANSAS


Arkansas Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Arkansas Transmission Lines:
1,120 Transmission Line Segments
7,413 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
KANSAS
MISSOURI
ARKANSAS
TENNESSEE
OKLAHOMA
MISSISSIPPI
TEXAS
LOUISIANA

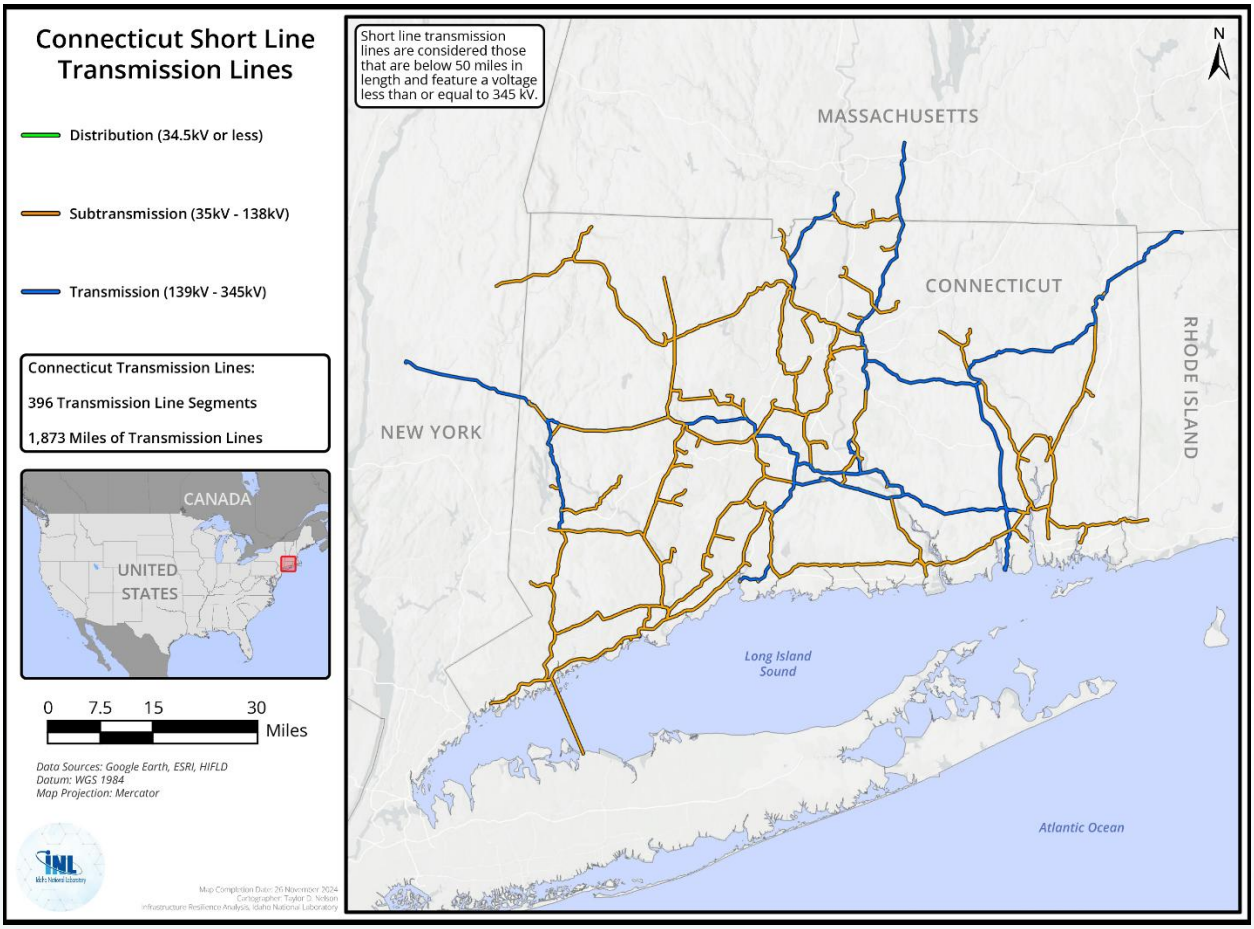
CALIFORNIA


California Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
California Transmission Lines:
4,555 Transmission Line Segments
28,880 Miles of Transmission Lines
CANADA
UNITED STATES
0 50 100 200
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
N
OREGON
IDAHO
NEVADA
UTAH
CALIFORNIA
ARIZONA
MEXICO
Pacific Ocean
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.

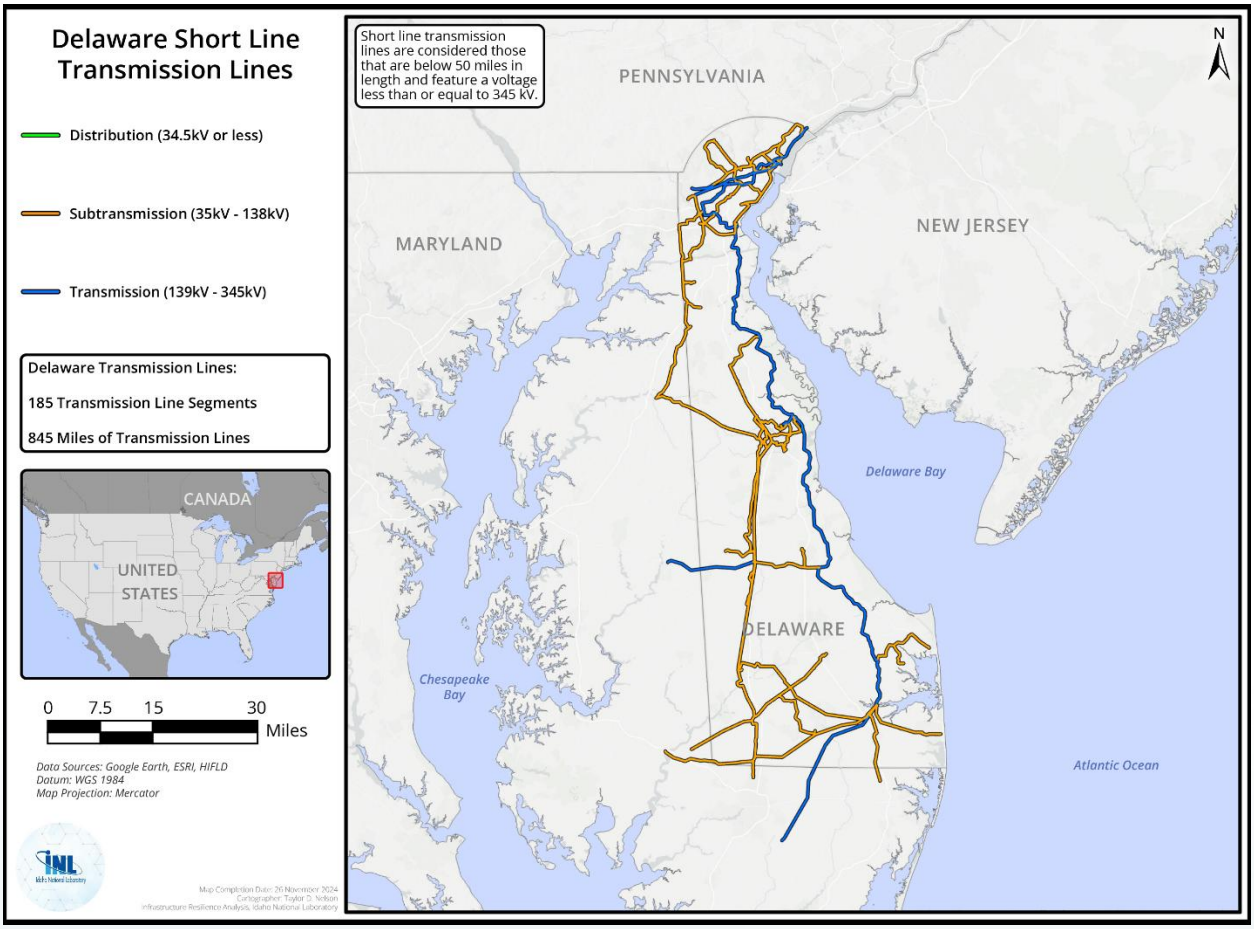
COLORADO


Colorado Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Colorado Transmission Lines:
1,600 Transmission Line Segments
10,784 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
WYOMING
NEBRASKA
UTAH
COLORADO
KANSAS
OKLAHOMA
ARIZONA
NEW MEXICO
TEXAS

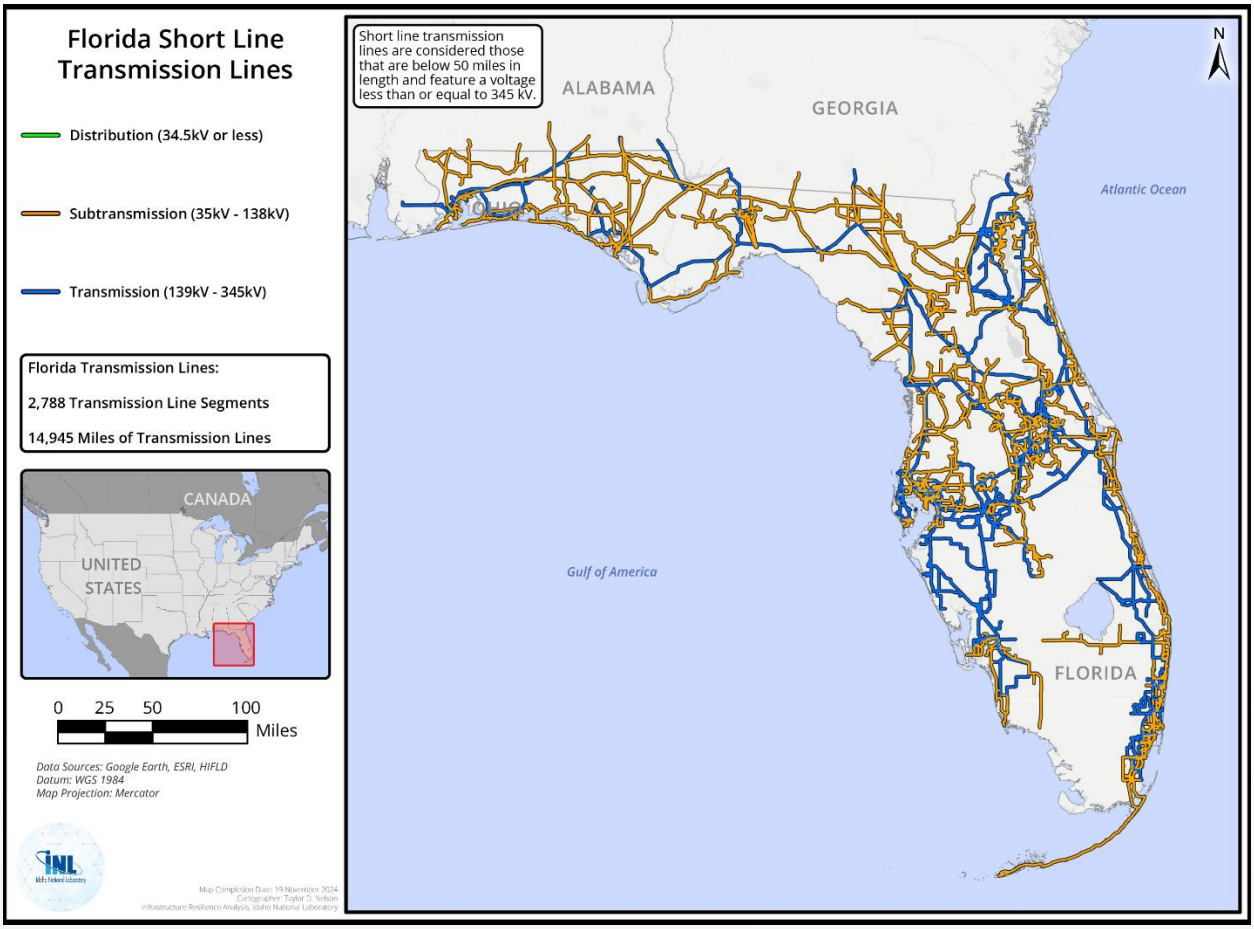
CONNECTICUT



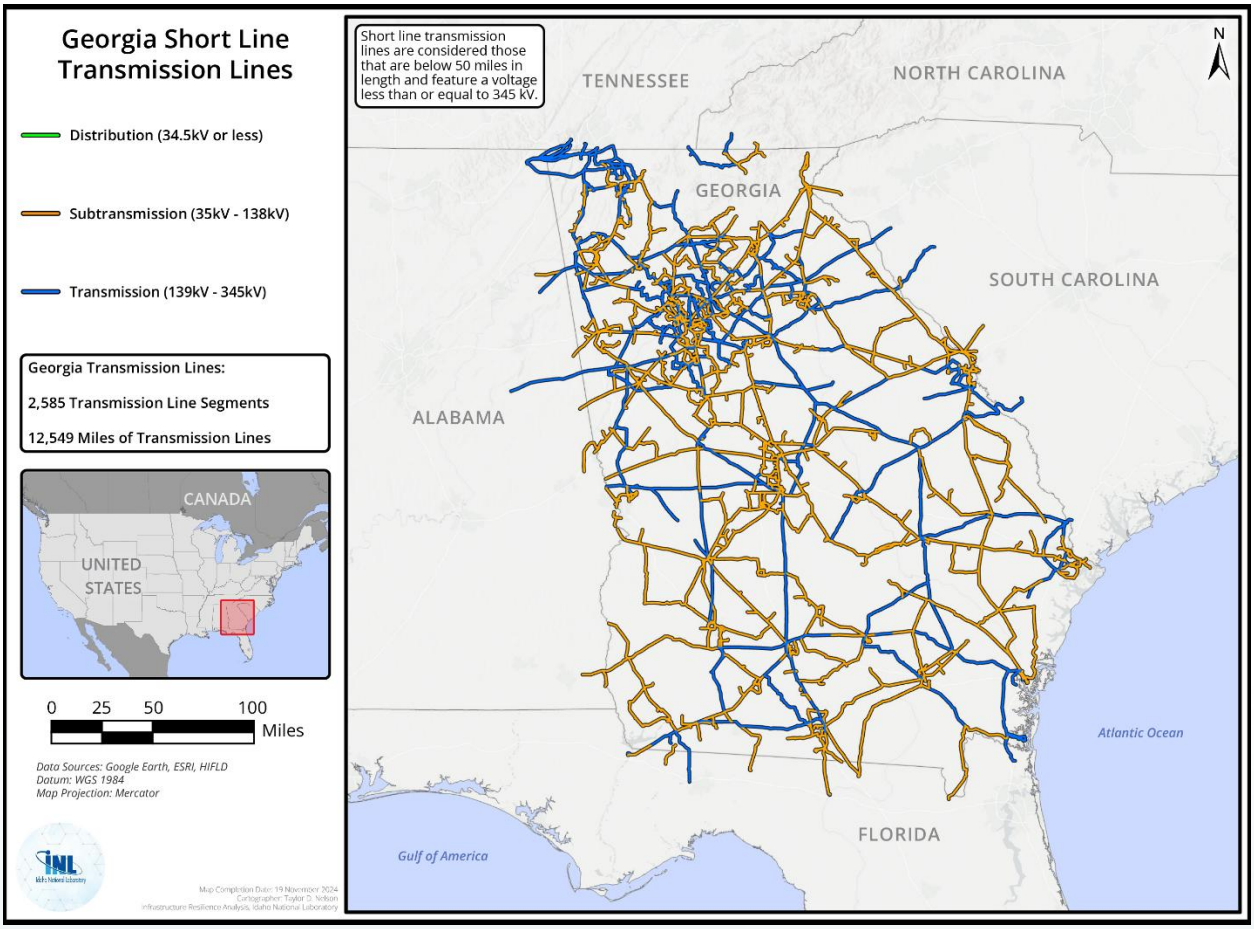
DELAWARE


Delaware Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Delaware Transmission Lines:
185 Transmission Line Segments
845 Miles of Transmission Lines
CANADA
UNITED STATES
0 7.5 15 30
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
PENNSYLVANIA
MARYLAND
NEW JERSEY
Delaware Bay
DELAWARE
Chesapeake Bay
Atlantic Ocean

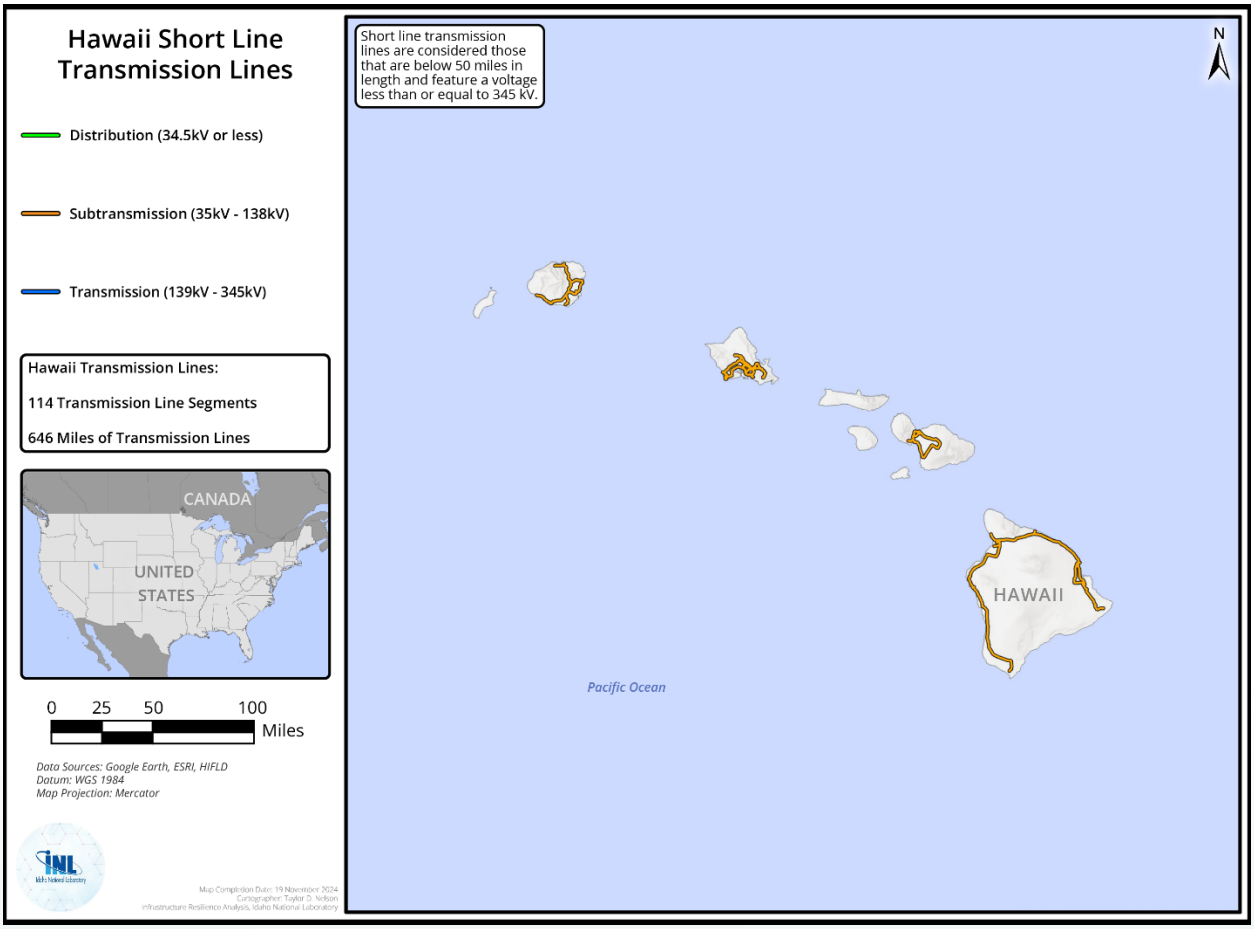
FLORIDA


Florida Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Florida Transmission Lines:
2,788 Transmission Line Segments
14,945 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
ALABAMA
GEORGIA
Atlantic Ocean
Gulf of America
FLORIDA
N

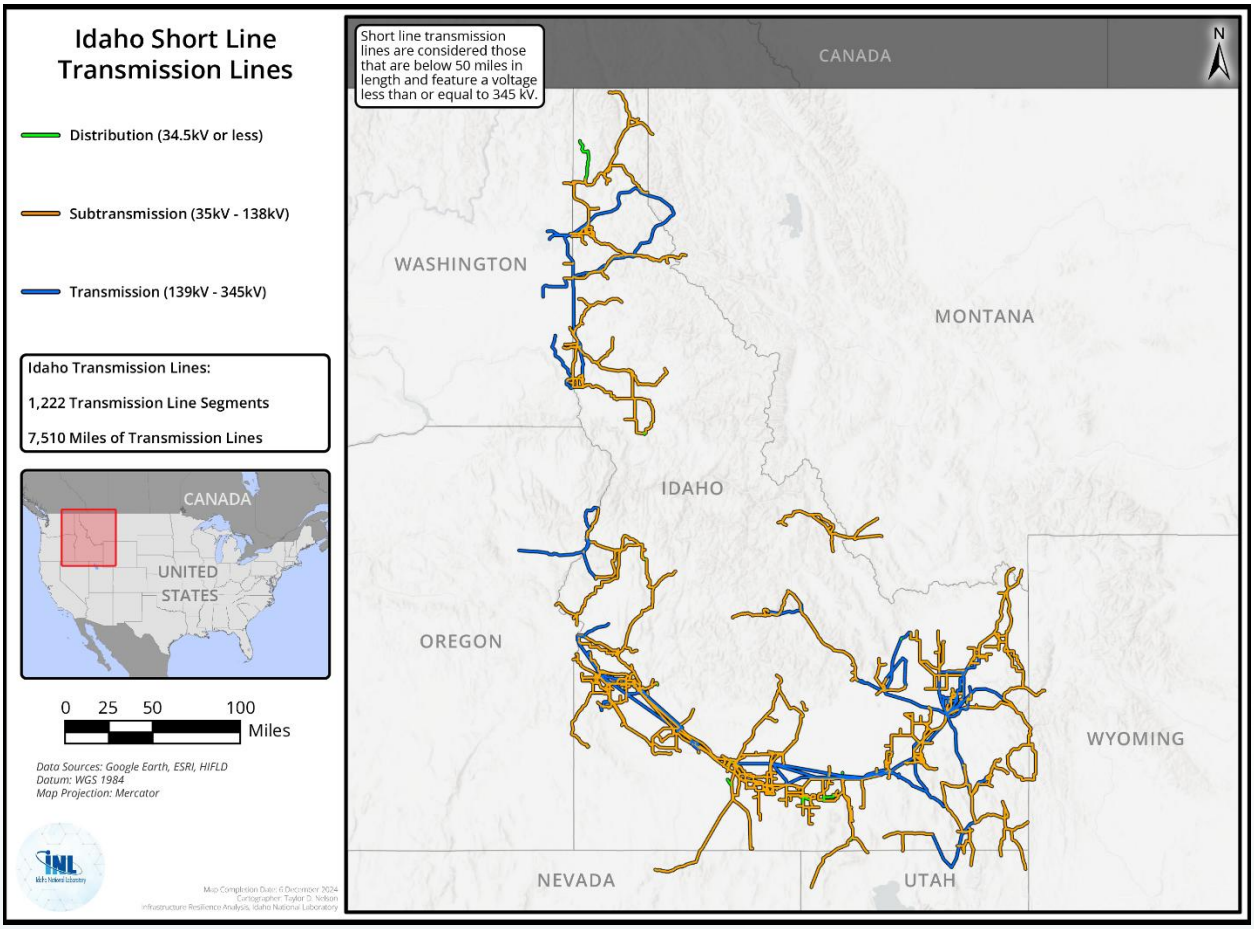
GEORGIA


Georgia Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Georgia Transmission Lines:
2,585 Transmission Line Segments
12,549 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
TENNESSEE
NORTH CAROLINA
GEORGIA
SOUTH CAROLINA
ALABAMA
Atlantic Ocean
Gulf of America
FLORIDA

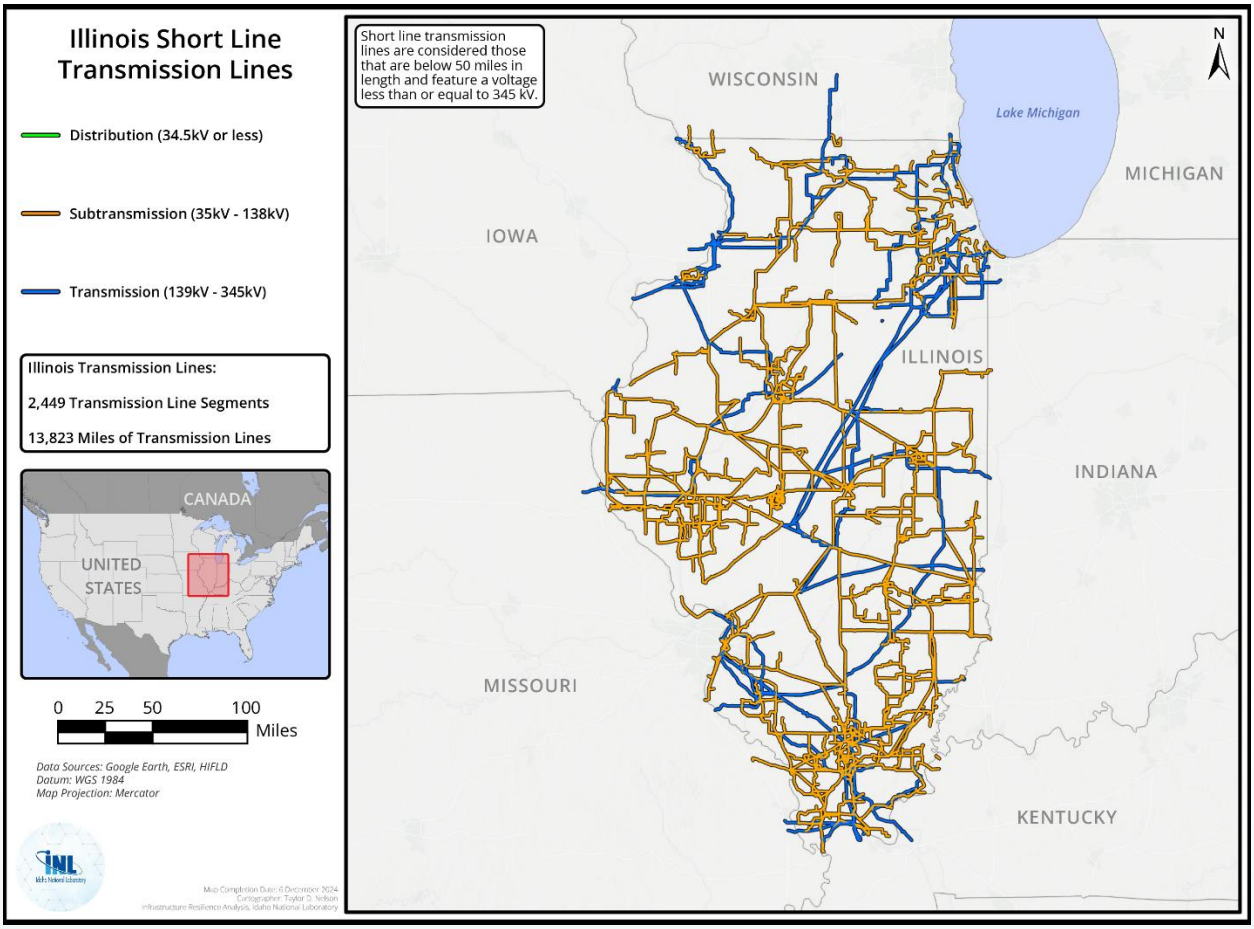
HAWAII


Hawaii Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Hawaii Transmission Lines:
114 Transmission Line Segments
646 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
HAWAII
Pacific Ocean

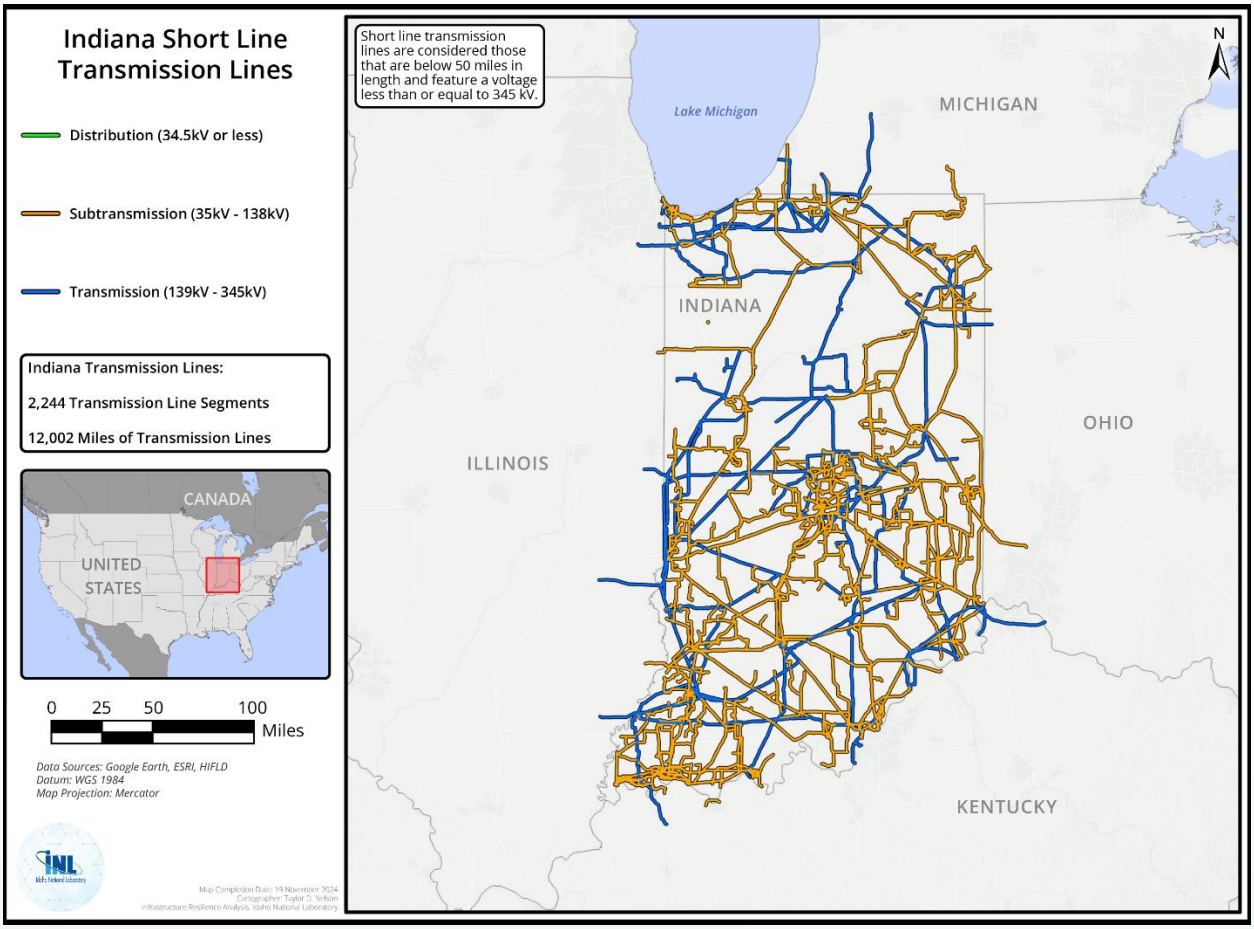
IDAHO


Idaho Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Idaho Transmission Lines:
1,222 Transmission Line Segments
7,510 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
CANADA
WASHINGTON
MONTANA
IDAHO
OREGON
WYOMING
NEVADA
UTAH

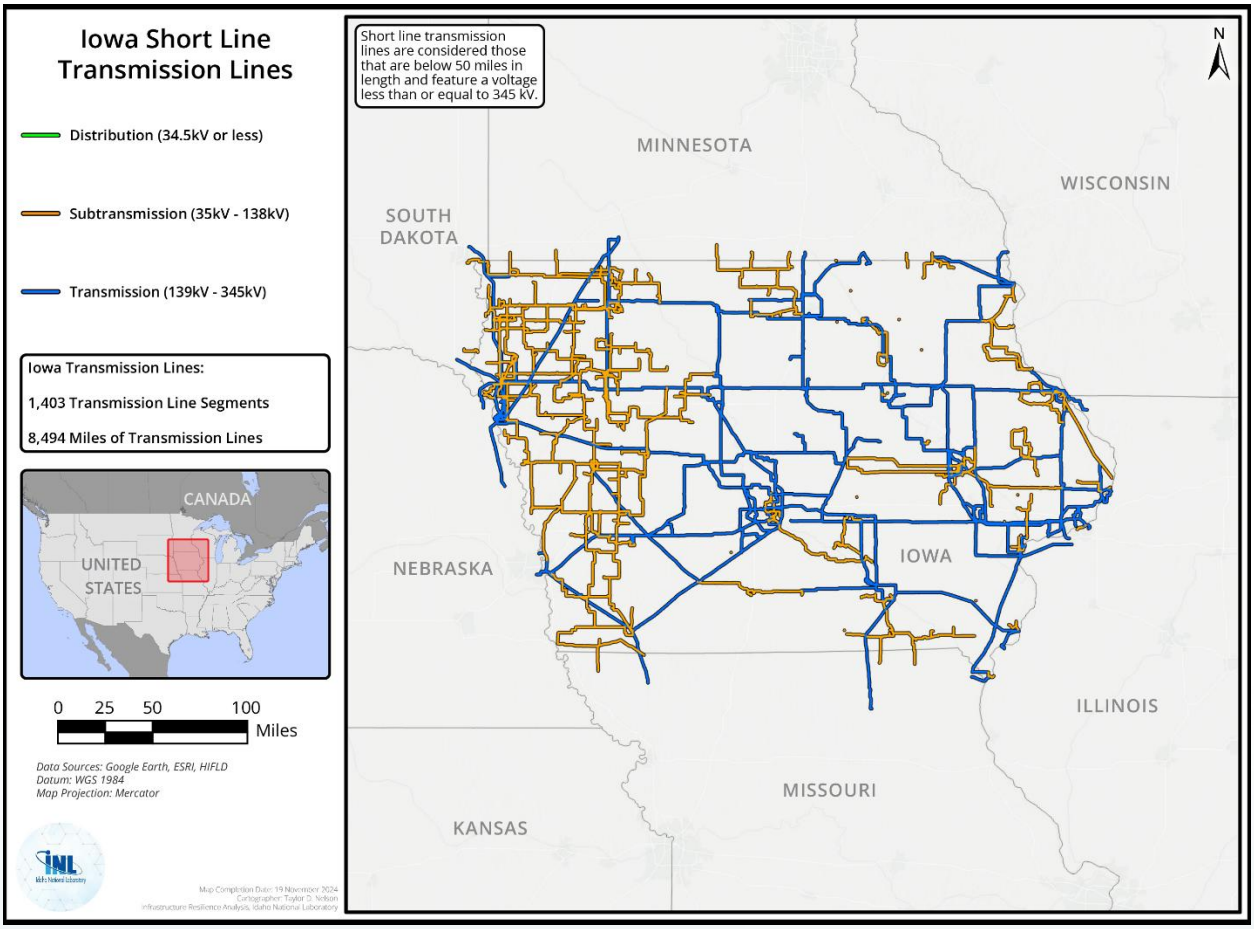
ILLINOIS


Illinois Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Illinois Transmission Lines:
2,449 Transmission Line Segments
13,823 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
WISCONSIN
Lake Michigan
MICHIGAN
IOWA
ILLINOIS
INDIANA
MISSOURI
KENTUCKY

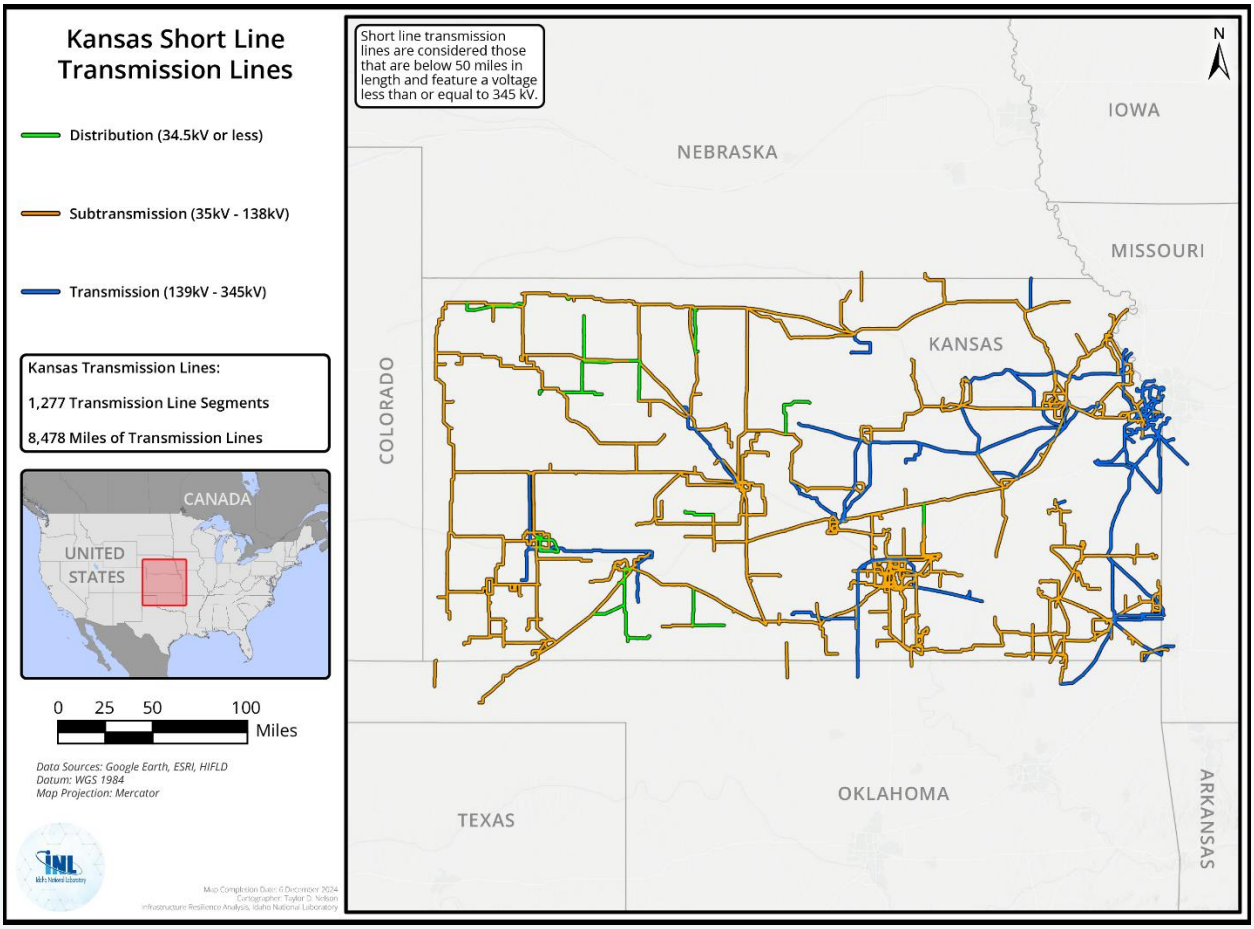
INDIANA


Indiana Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Indiana Transmission Lines:
2,244 Transmission Line Segments
12,002 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
Lake Michigan
MICHIGAN
INDIANA
ILLINOIS
OHIO
KENTUCKY

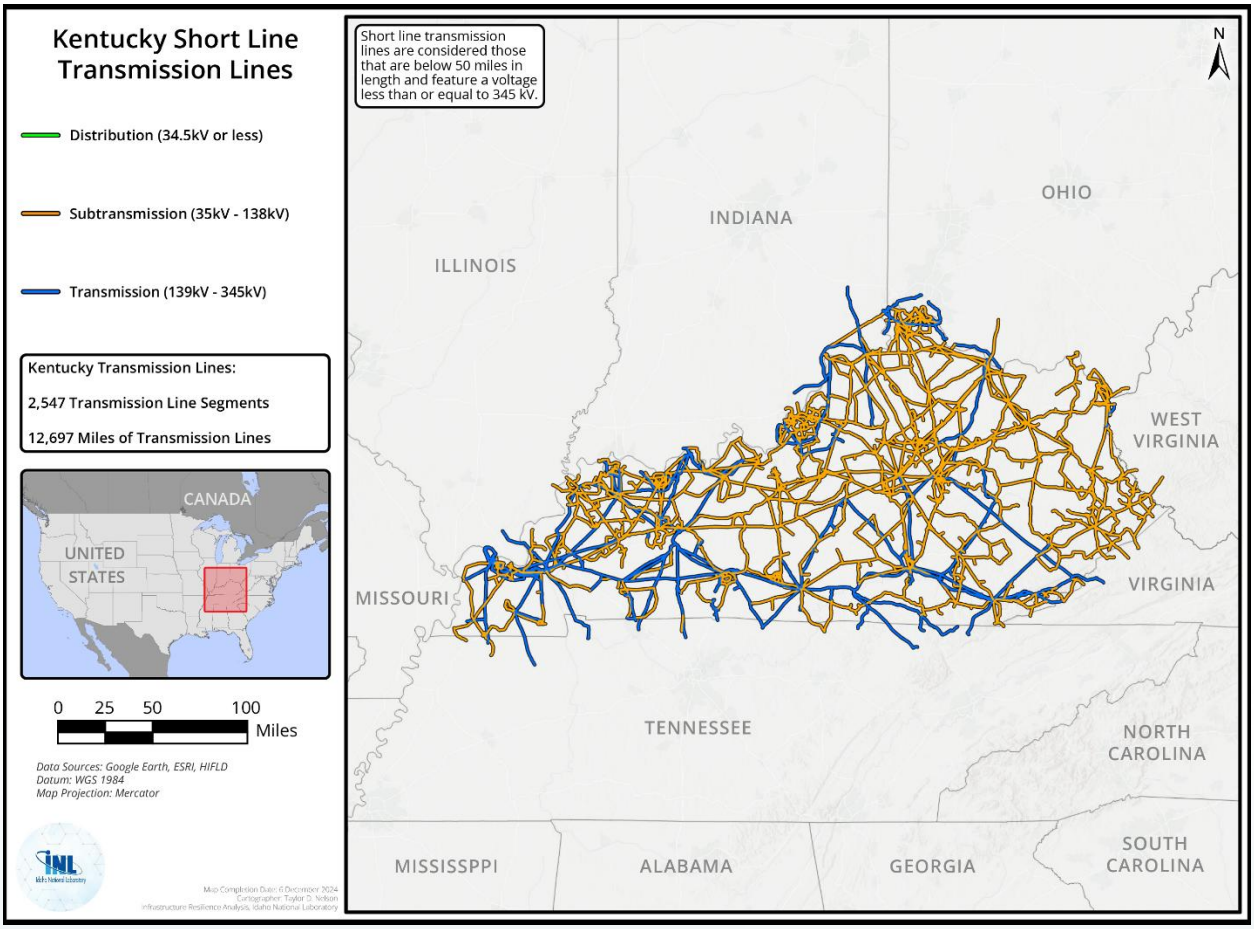
IOWA


Iowa Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Iowa Transmission Lines:
1,403 Transmission Line Segments
8,494 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
MINNESOTA
WISCONSIN
SOUTH DAKOTA
NEBRASKA
IOWA
ILLINOIS
MISSOURI
KANSAS

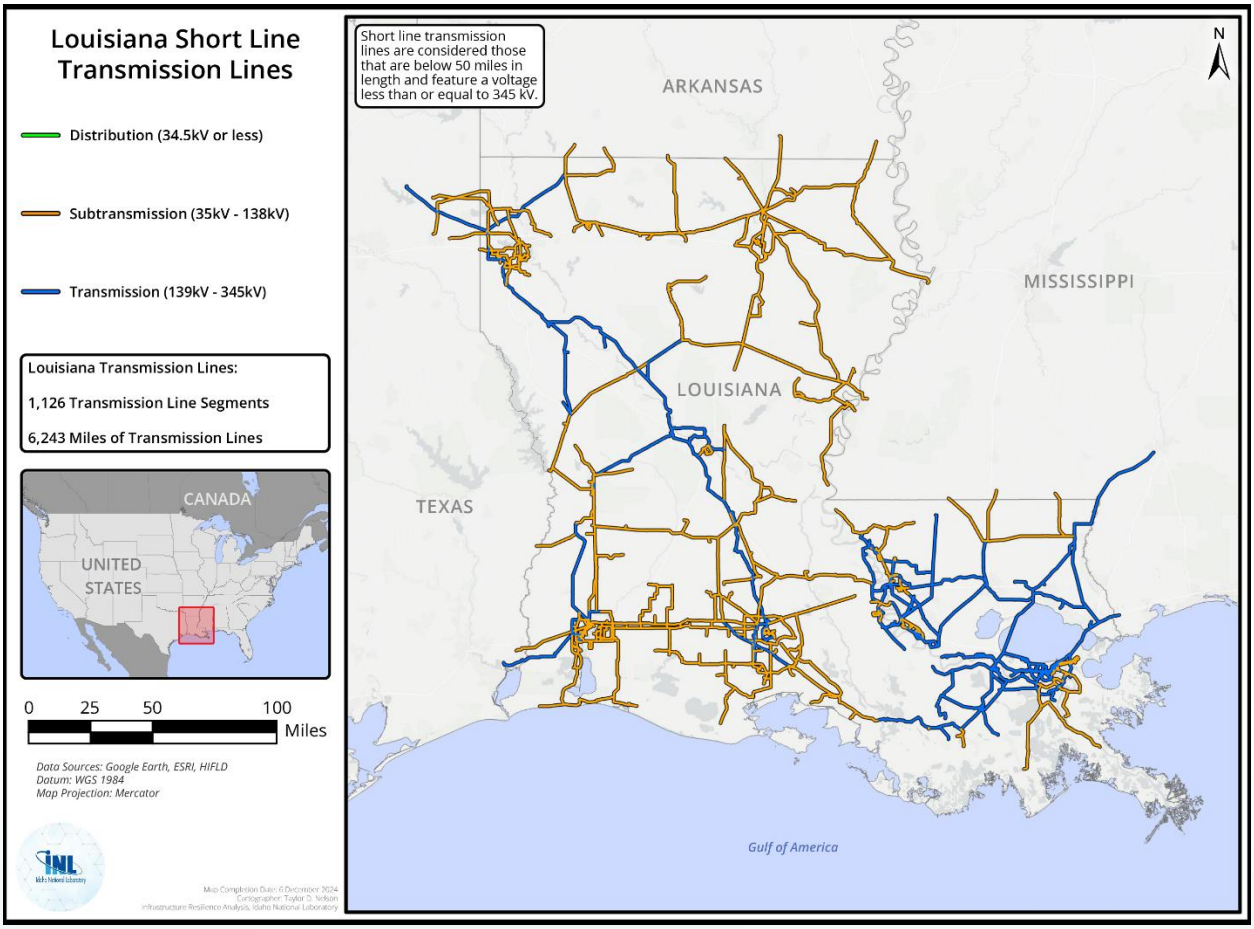
KANSAS


Kansas Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Kansas Transmission Lines:
1,277 Transmission Line Segments
8,478 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
IOWA
NEBRASKA
MISSOURI
KANSAS
COLORADO
TEXAS
OKLAHOMA
ARKANSAS

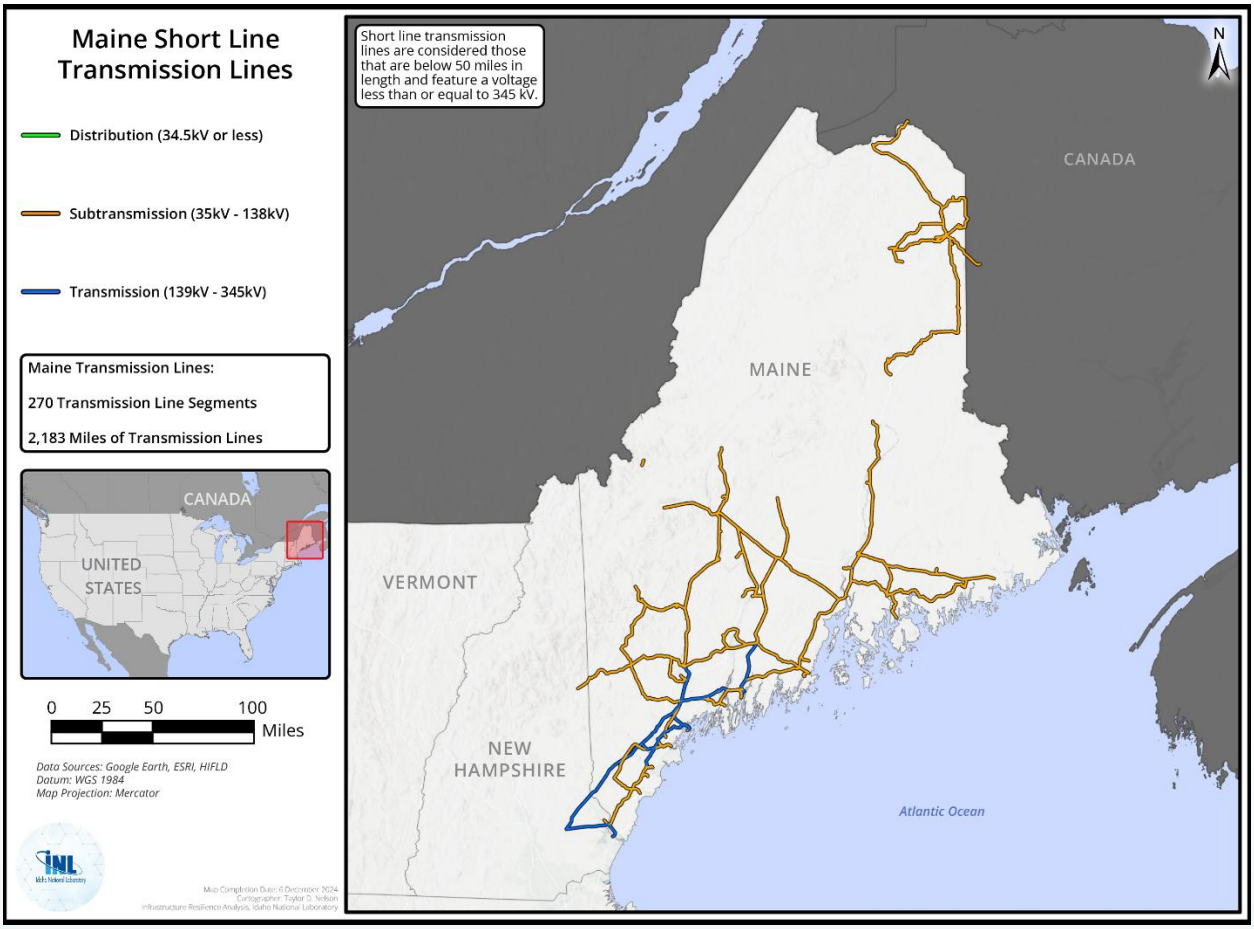
KENTUCKY


Kentucky Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Kentucky Transmission Lines:
2,547 Transmission Line Segments
12,697 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
ILLINOIS
INDIANA
OHIO
WEST VIRGINIA
VIRGINIA
MISSOURI
TENNESSEE
NORTH CAROLINA
SOUTH CAROLINA
MISSISSPPI
ALABAMA
GEORGIA

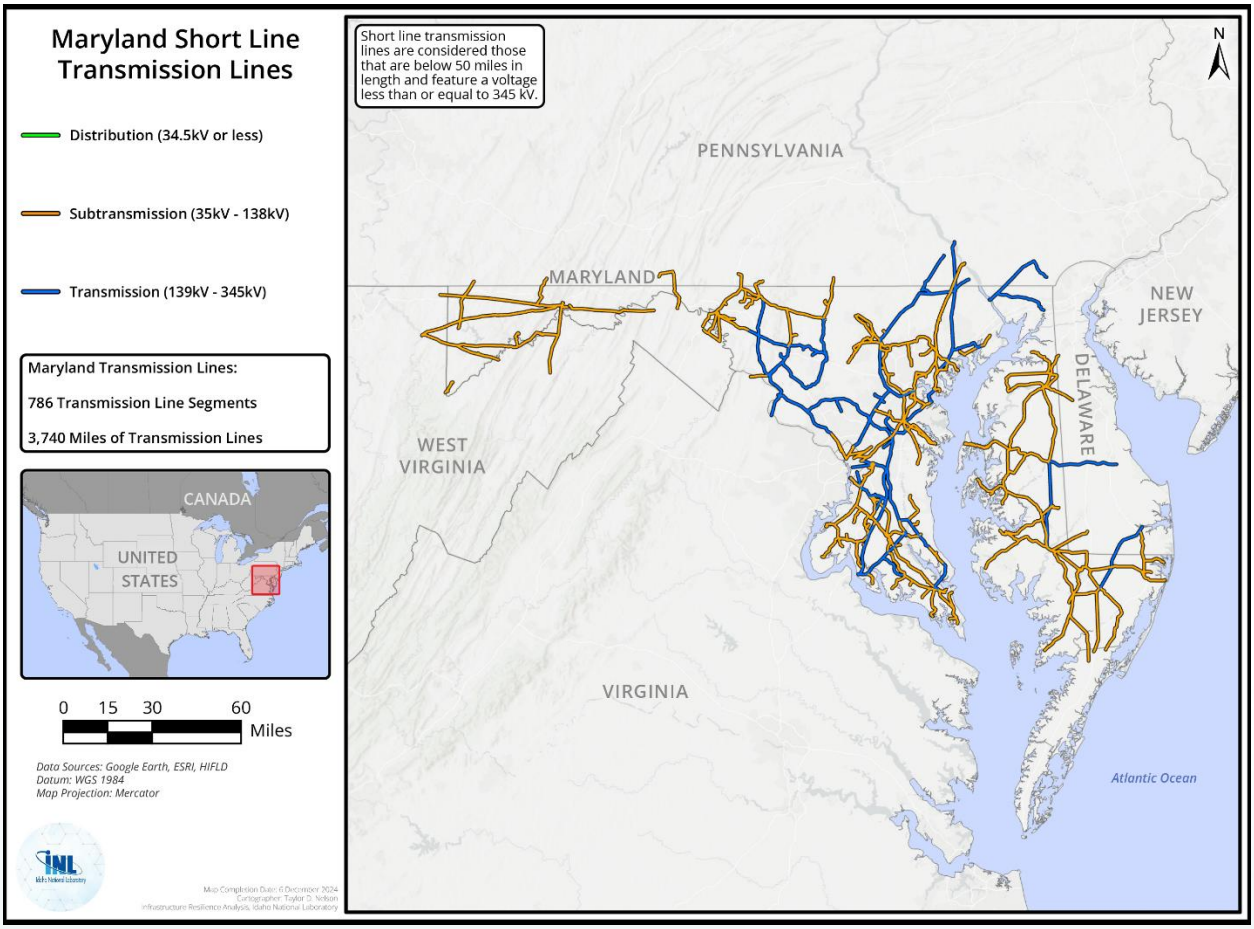
LOUISIANA


Louisiana Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Louisiana Transmission Lines:
1,126 Transmission Line Segments
6,243 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
ARKANSAS
MISSISSIPPI
LOUISIANA
TEXAS
Gulf of America

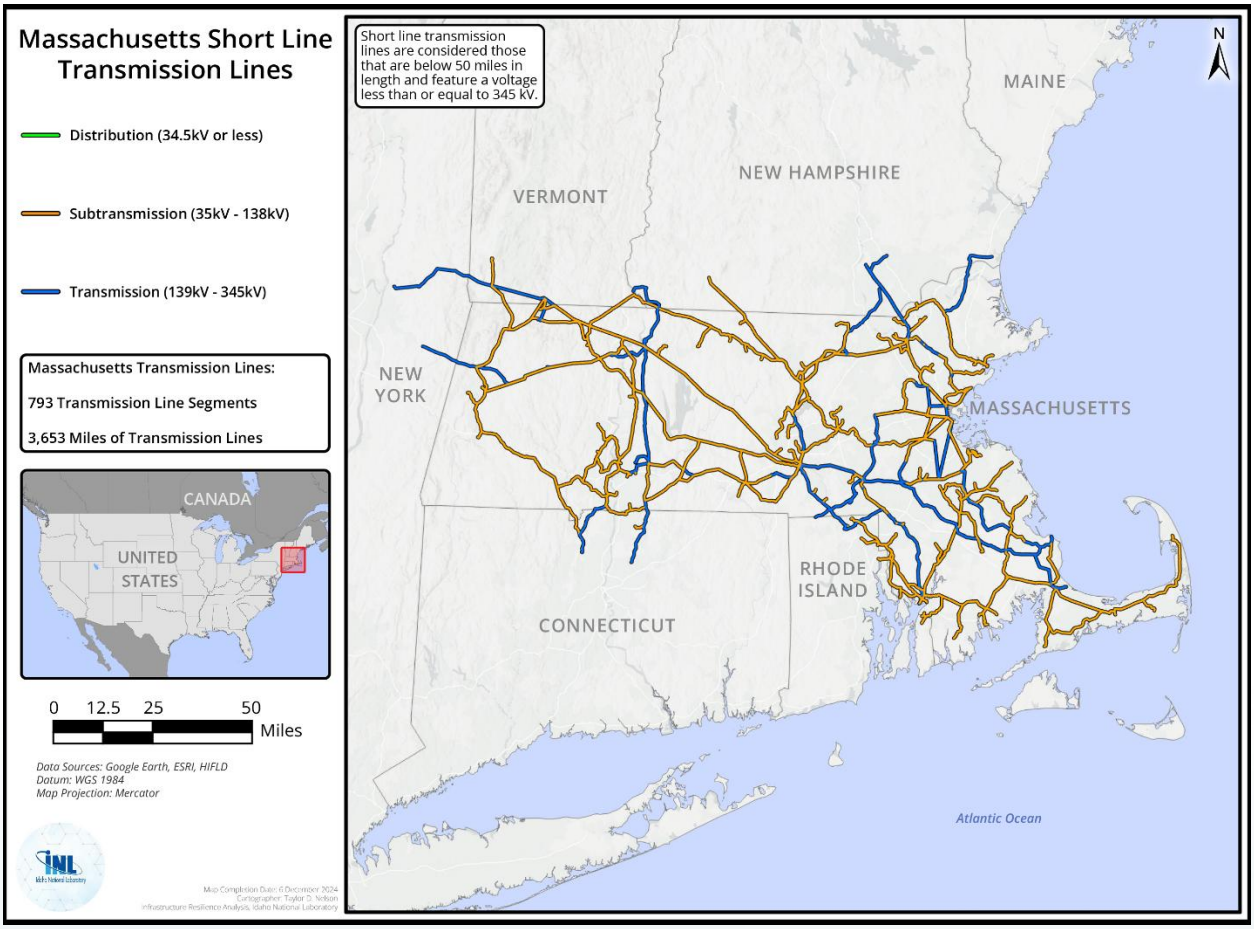
MAINE


Maine Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Maine Transmission Lines:
270 Transmission Line Segments
2,183 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
CANADA
MAINE
VERMONT
NEW HAMPSHIRE
Atlantic Ocean

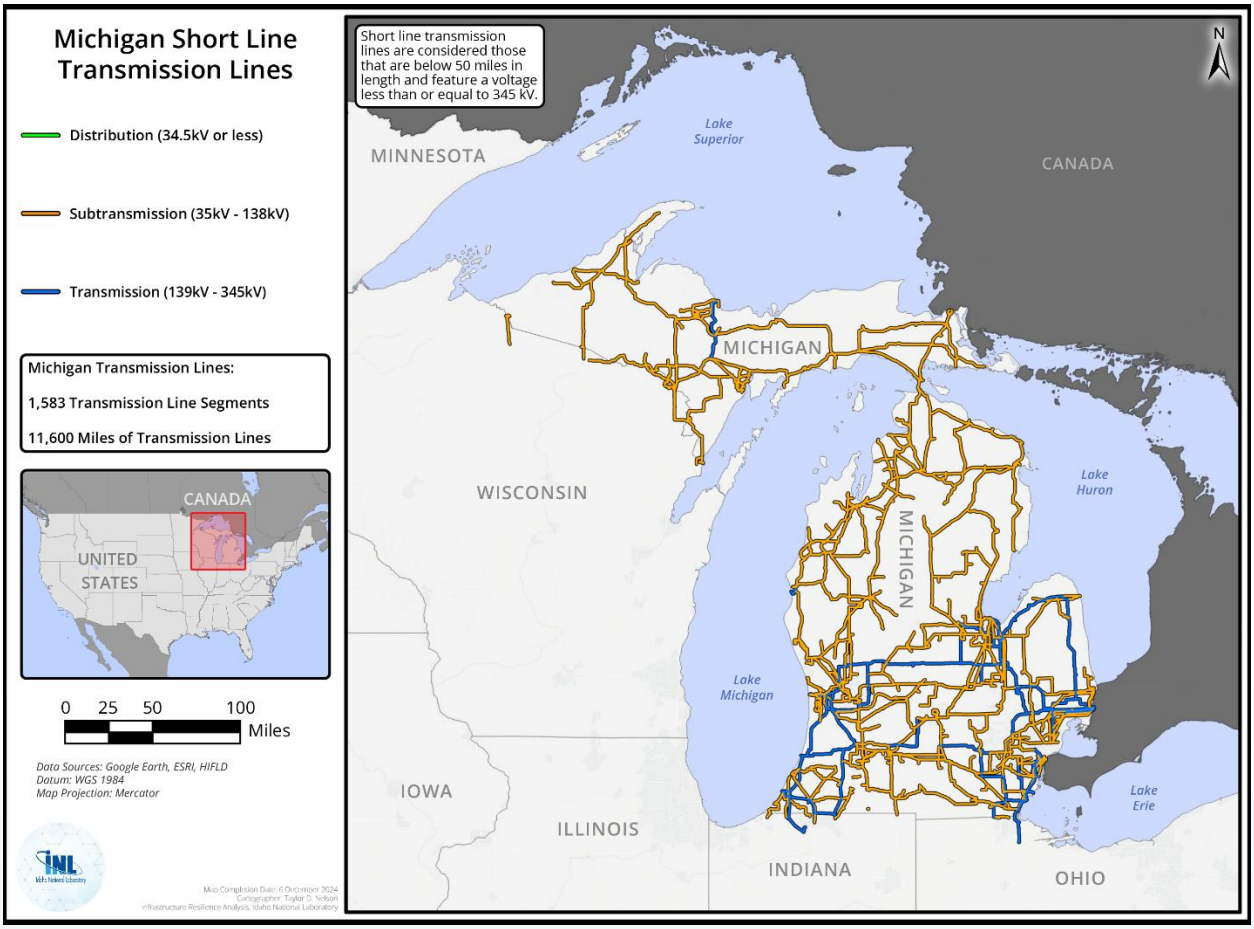
MARYLAND


Maryland Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Maryland Transmission Lines:
786 Transmission Line Segments
3,740 Miles of Transmission Lines
CANADA
UNITED STATES
0 15 30 60
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
PENNSYLVANIA
MARYLAND
NEW JERSEY
DELAWARE
WEST VIRGINIA
VIRGINIA
Atlantic Ocean

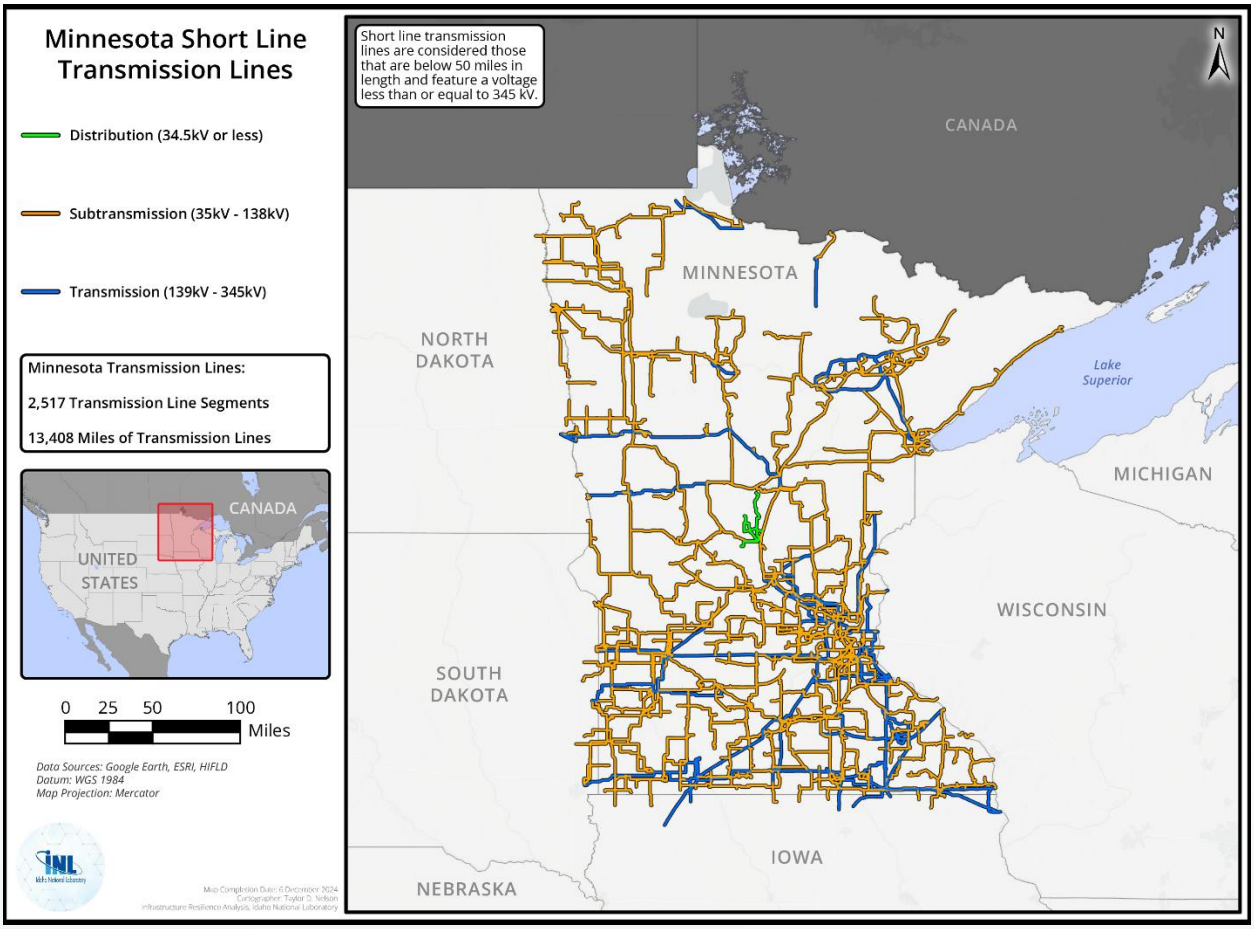
MASSACHUSETTS



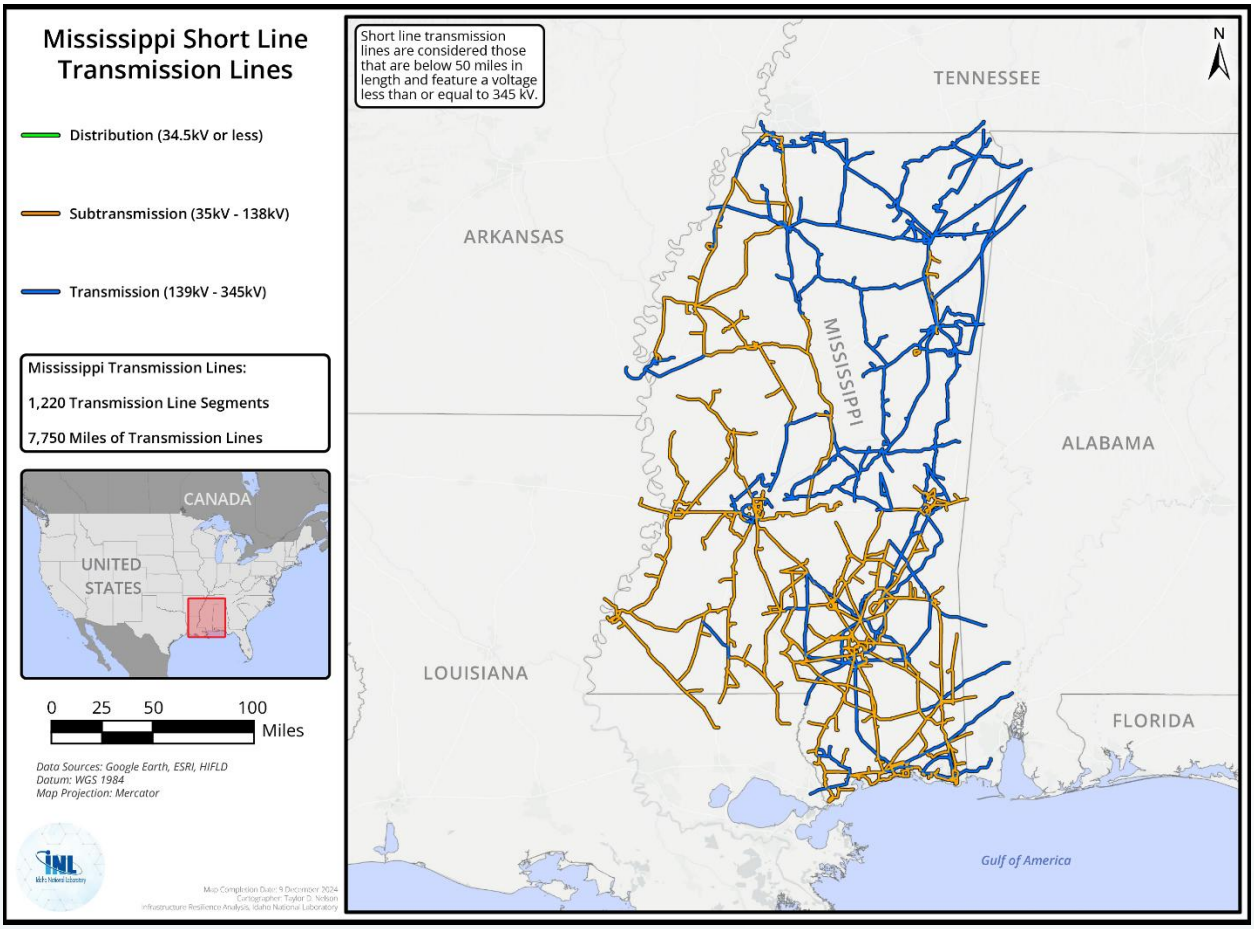
MICHIGAN


Michigan Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Michigan Transmission Lines:
1,583 Transmission Line Segments
11,600 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
MINNESOTA
Lake Superior
CANADA
MICHIGAN
WISCONSIN
Lake Huron
MICHIGAN
Lake Michigan
IOWA
ILLINOIS
INDIANA
OHIO
Lake Erie

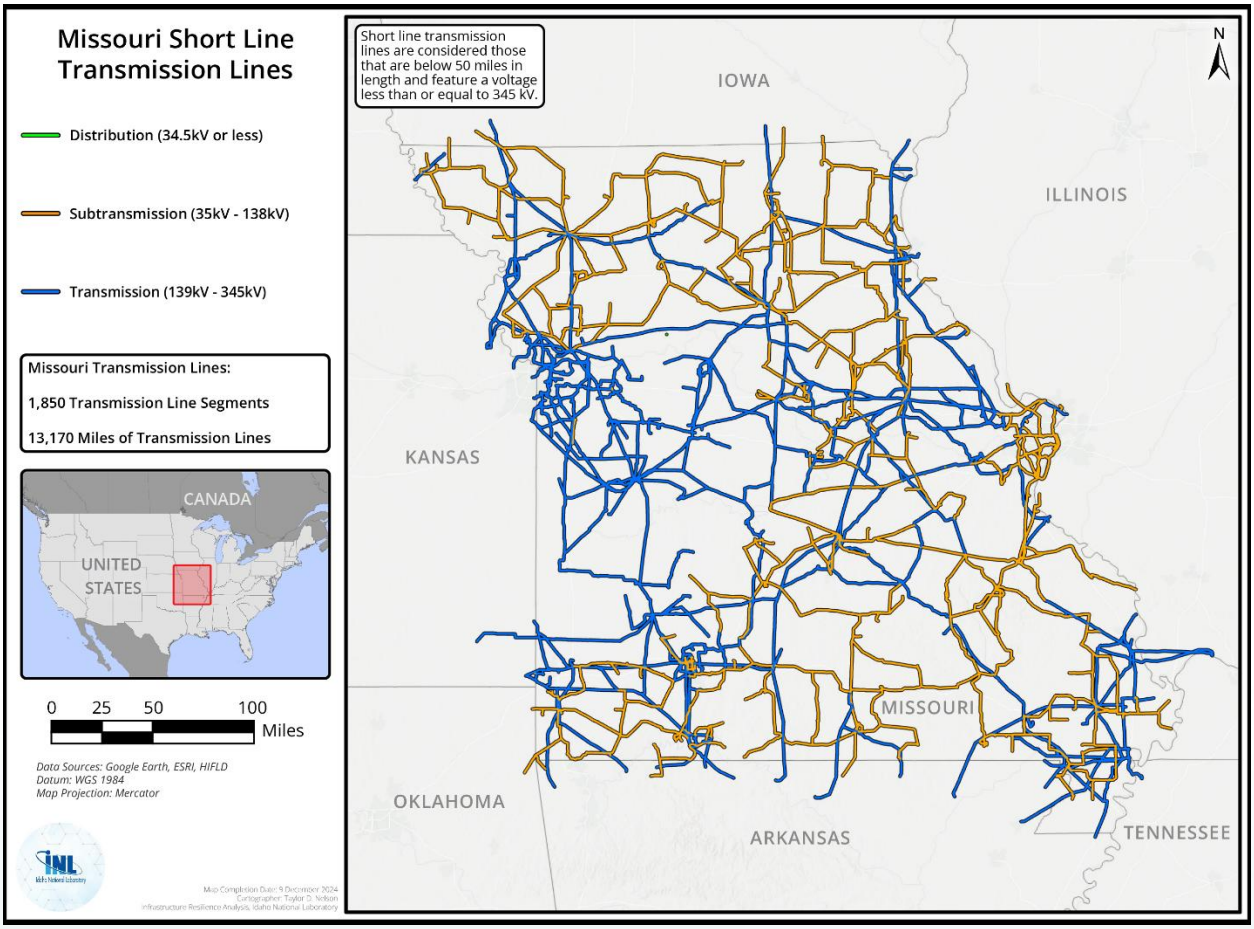
MINNESOTA


Minnesota Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Minnesota Transmission Lines:
2,517 Transmission Line Segments
13,408 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
CANADA
MINNESOTA
NORTH DAKOTA
SOUTH DAKOTA
NEBRASKA
IOWA
WISCONSIN
MICHIGAN
Lake Superior

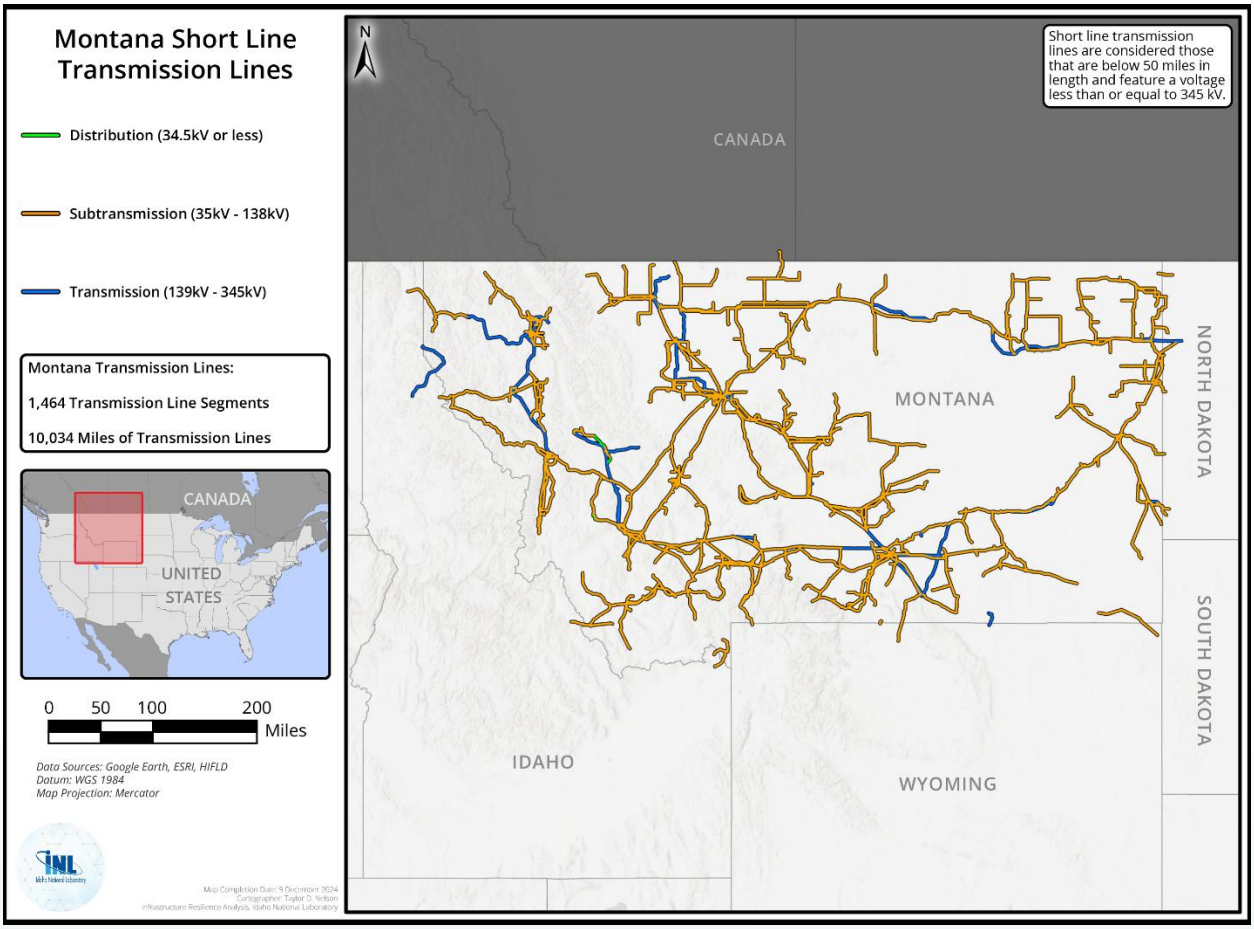
MISSISSIPPI



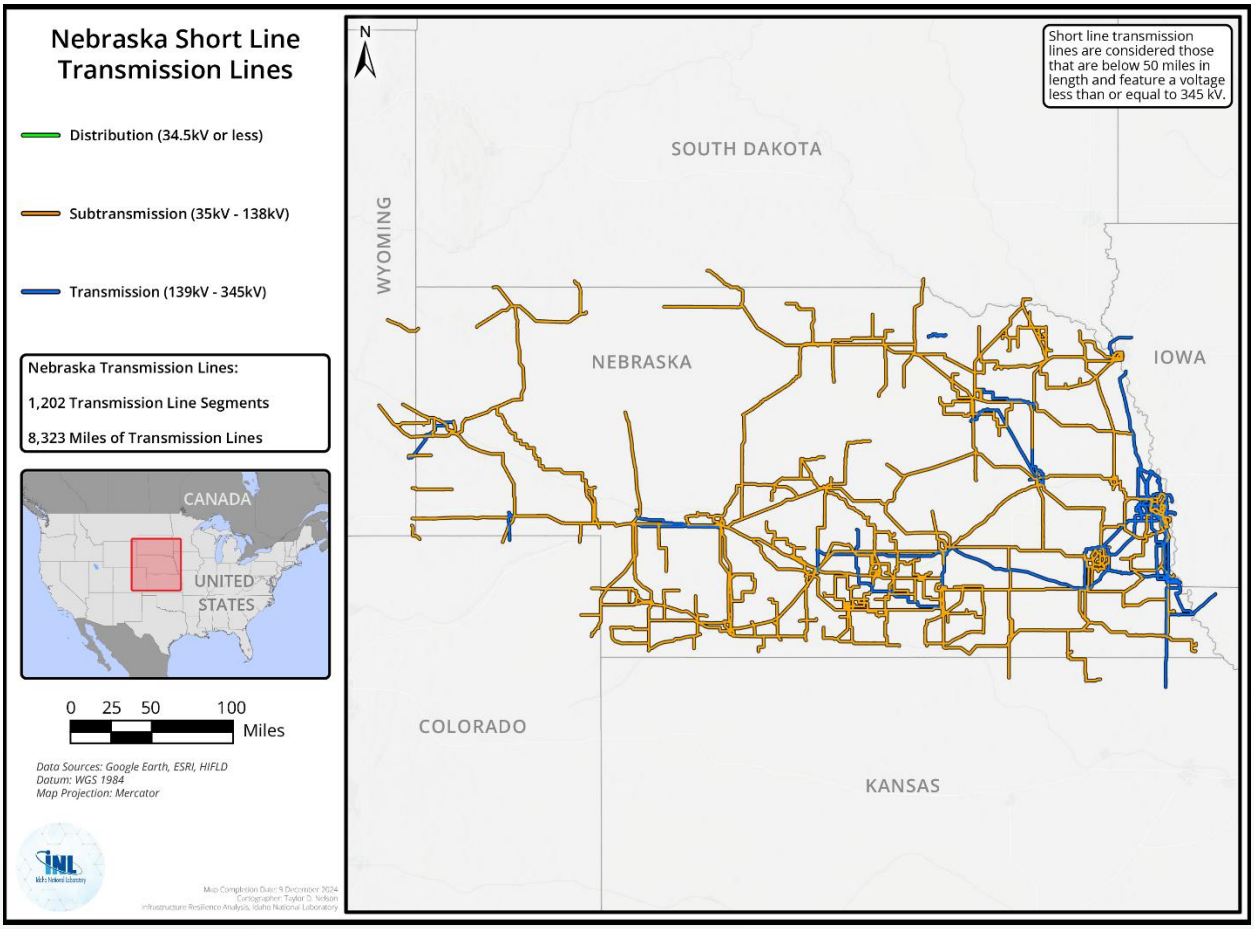
MISSOURI


Missouri Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Missouri Transmission Lines:
1,850 Transmission Line Segments
13,170 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
IOWA
ILLINOIS
KANSAS
MISSOURI
OKLAHOMA
ARKANSAS
TENNESSEE

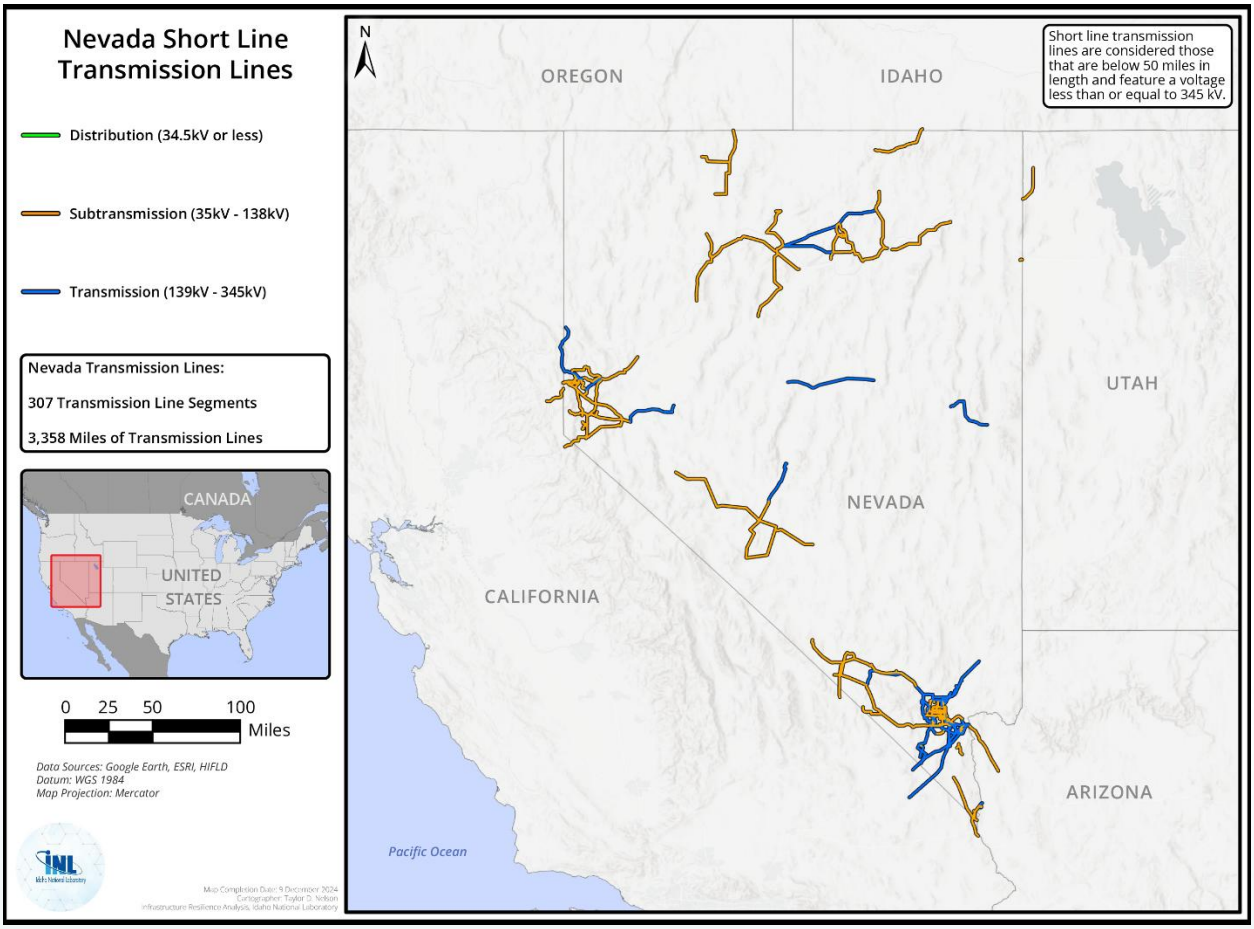
MONTANA


Montana Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Montana Transmission Lines:
1,464 Transmission Line Segments
10,034 Miles of Transmission Lines
CANADA
UNITED STATES
0 50 100 200
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
N
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
CANADA
MONTANA
NORTH DAKOTA
SOUTH DAKOTA
IDAHO
WYOMING

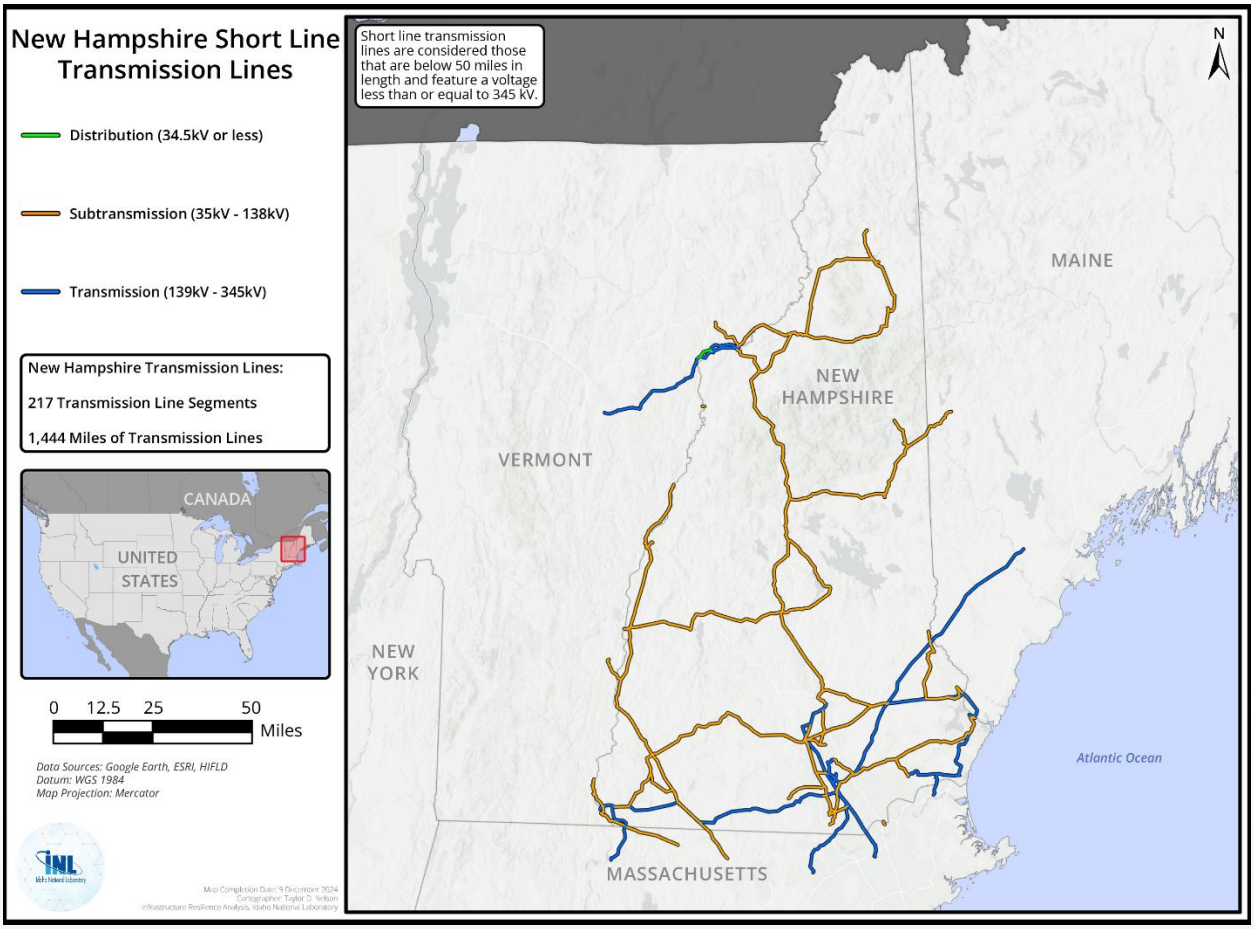
NEBRASKA


Nebraska Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Nebraska Transmission Lines:
1,202 Transmission Line Segments
8,323 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
N
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
SOUTH DAKOTA
WYOMING
NEBRASKA
IOWA
COLORADO
KANSAS

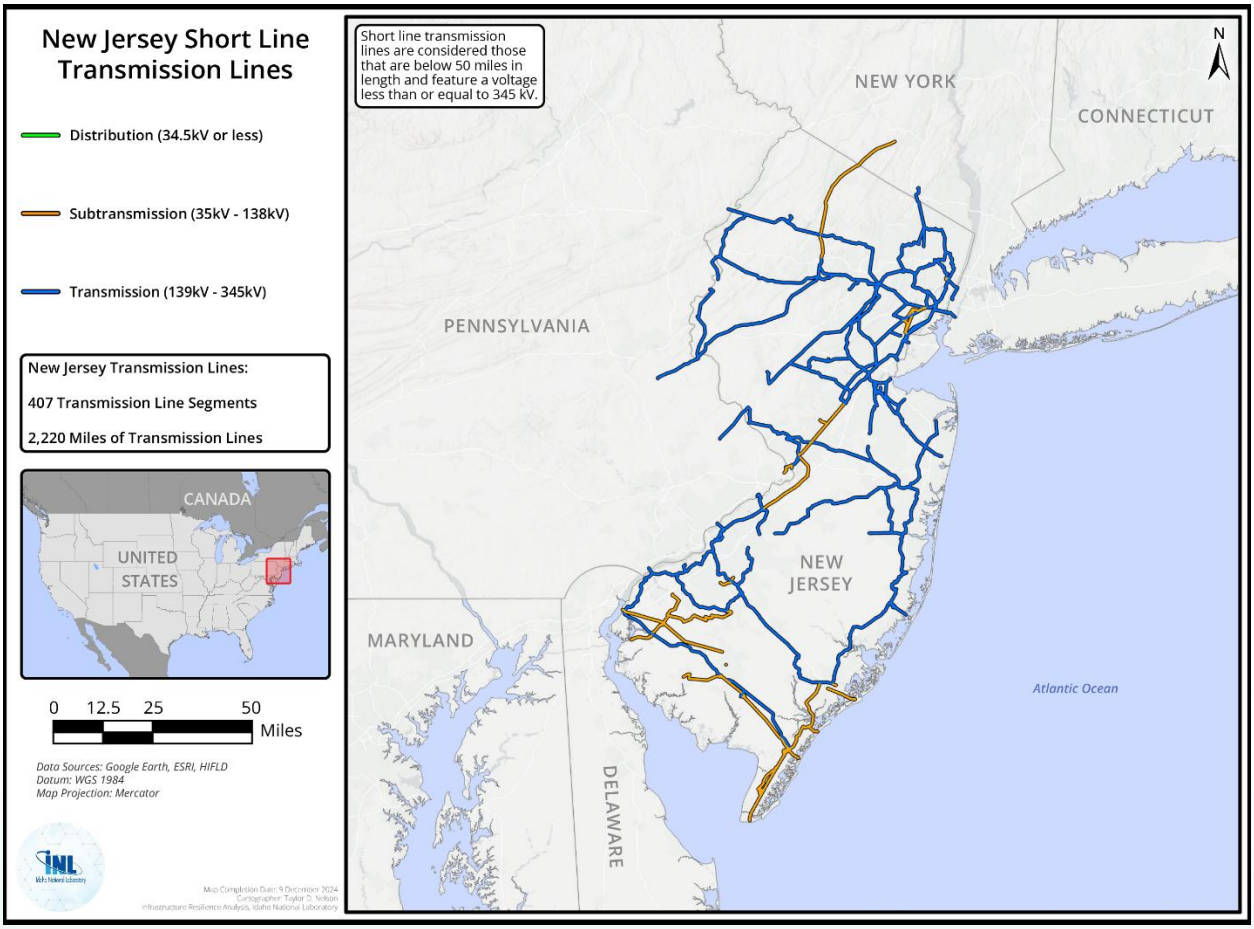
NEVADA


Nevada Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Nevada Transmission Lines:
307 Transmission Line Segments
3,358 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
N
OREGON
IDAHO
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
UTAH
NEVADA
CALIFORNIA
ARIZONA
Pacific Ocean

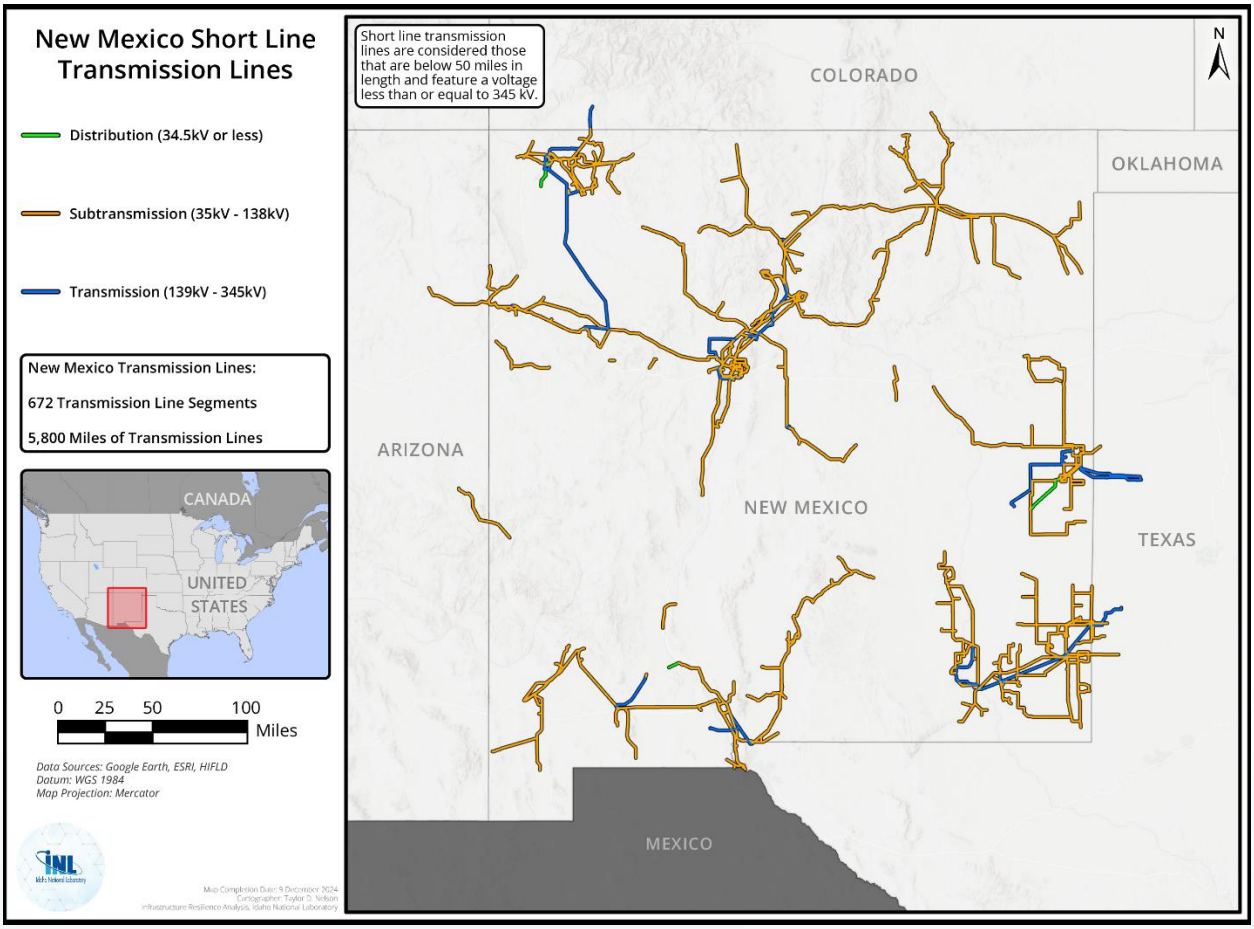
NEW HAMPSHIRE



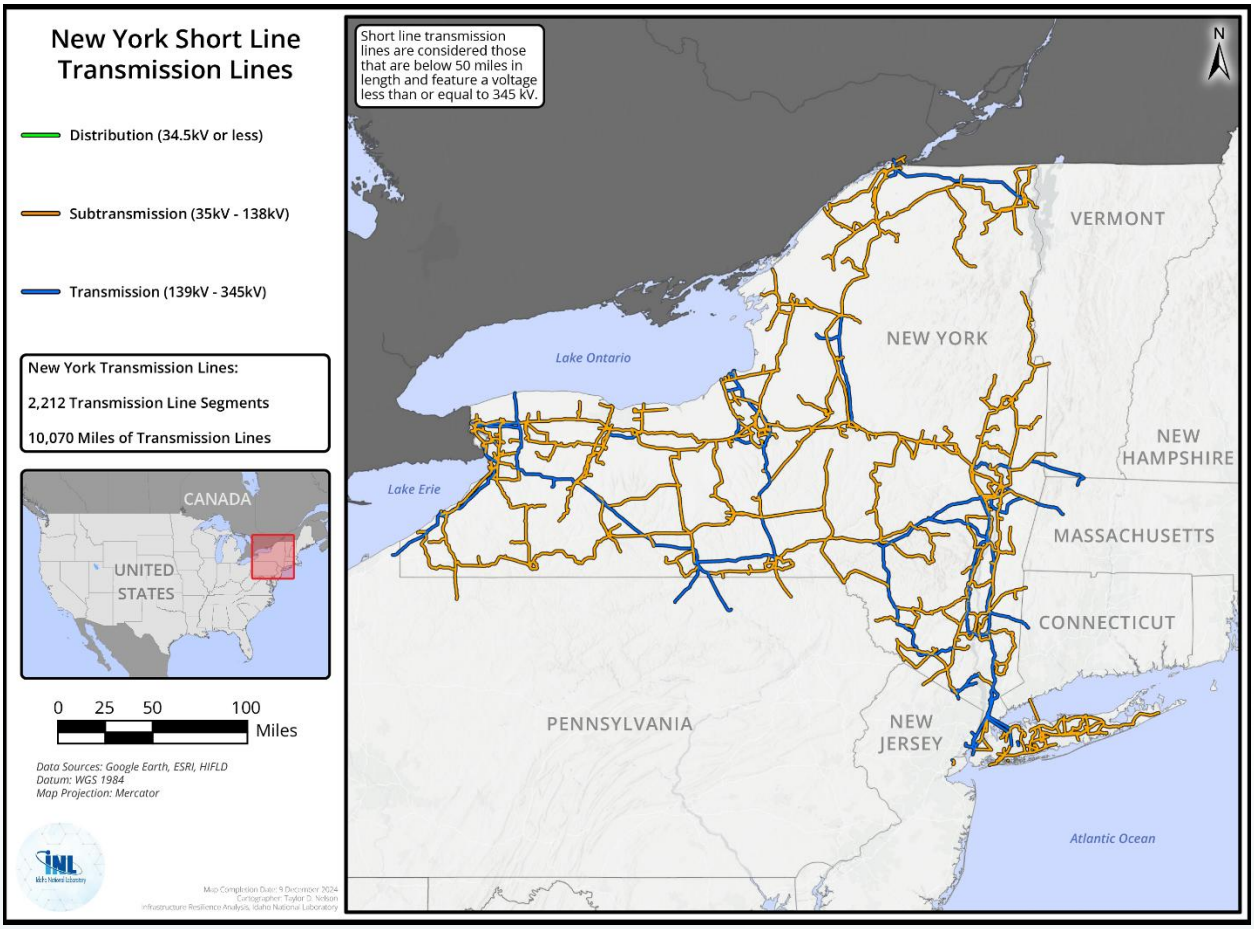
NEW JERSEY


New Jersey Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
New Jersey Transmission Lines:
407 Transmission Line Segments
2,220 Miles of Transmission Lines
CANADA
UNITED STATES
0 12.5 25 50
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
NEW YORK
CONNECTICUT
PENNSYLVANIA
NEW JERSEY
MARYLAND
DELAWARE
Atlantic Ocean

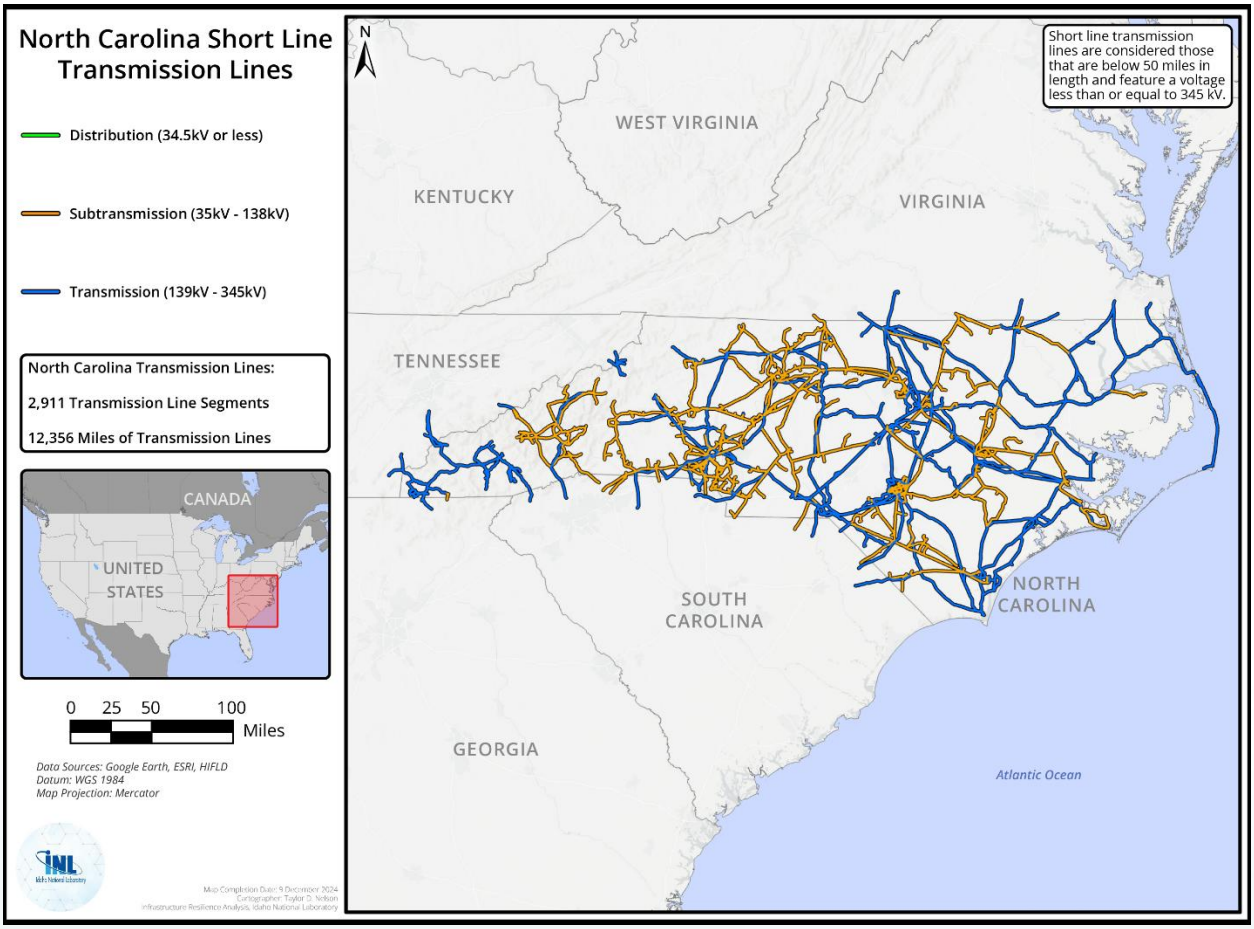
NEW MEXICO


New Mexico Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
New Mexico Transmission Lines:
672 Transmission Line Segments
5,800 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
COLORADO
OKLAHOMA
ARIZONA
NEW MEXICO
TEXAS
MEXICO

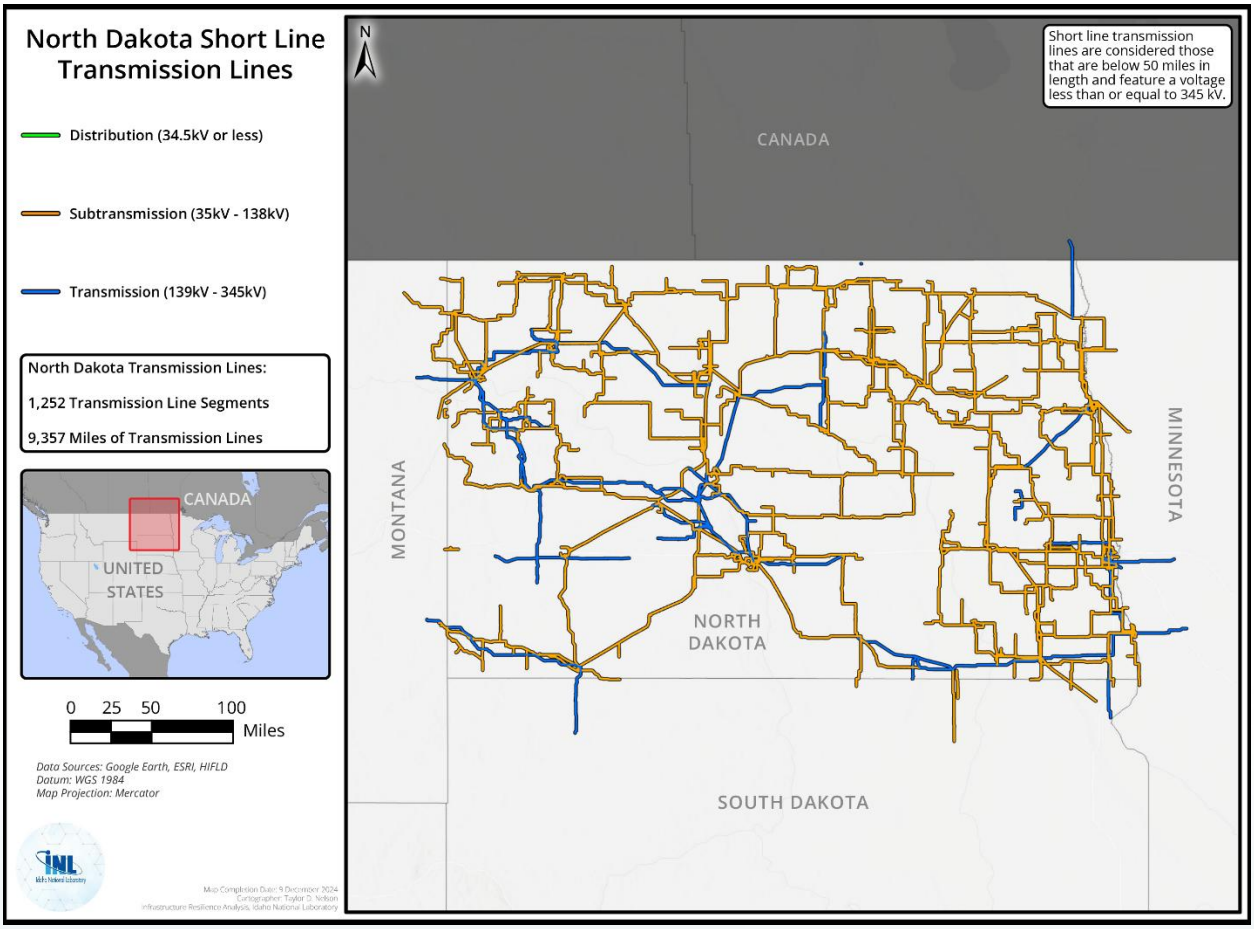
NEW YORK


New York Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
New York Transmission Lines:
2,212 Transmission Line Segments
10,070 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
VERMONT
NEW YORK
Lake Ontario
Lake Erie
NEW HAMPSHIRE
MASSACHUSETTS
CONNECTICUT
PENNSYLVANIA
NEW JERSEY
Atlantic Ocean

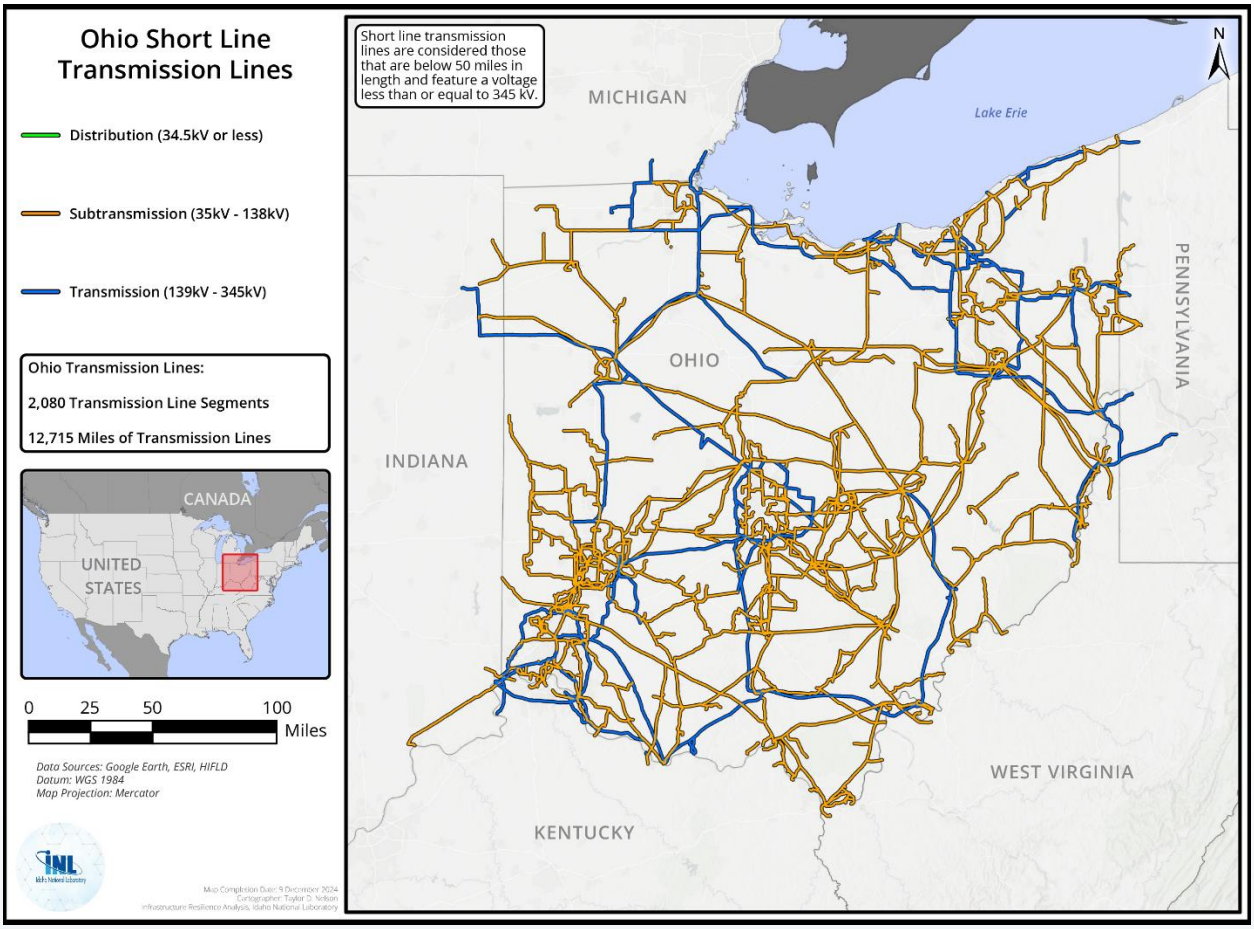
NORTH CAROLINA



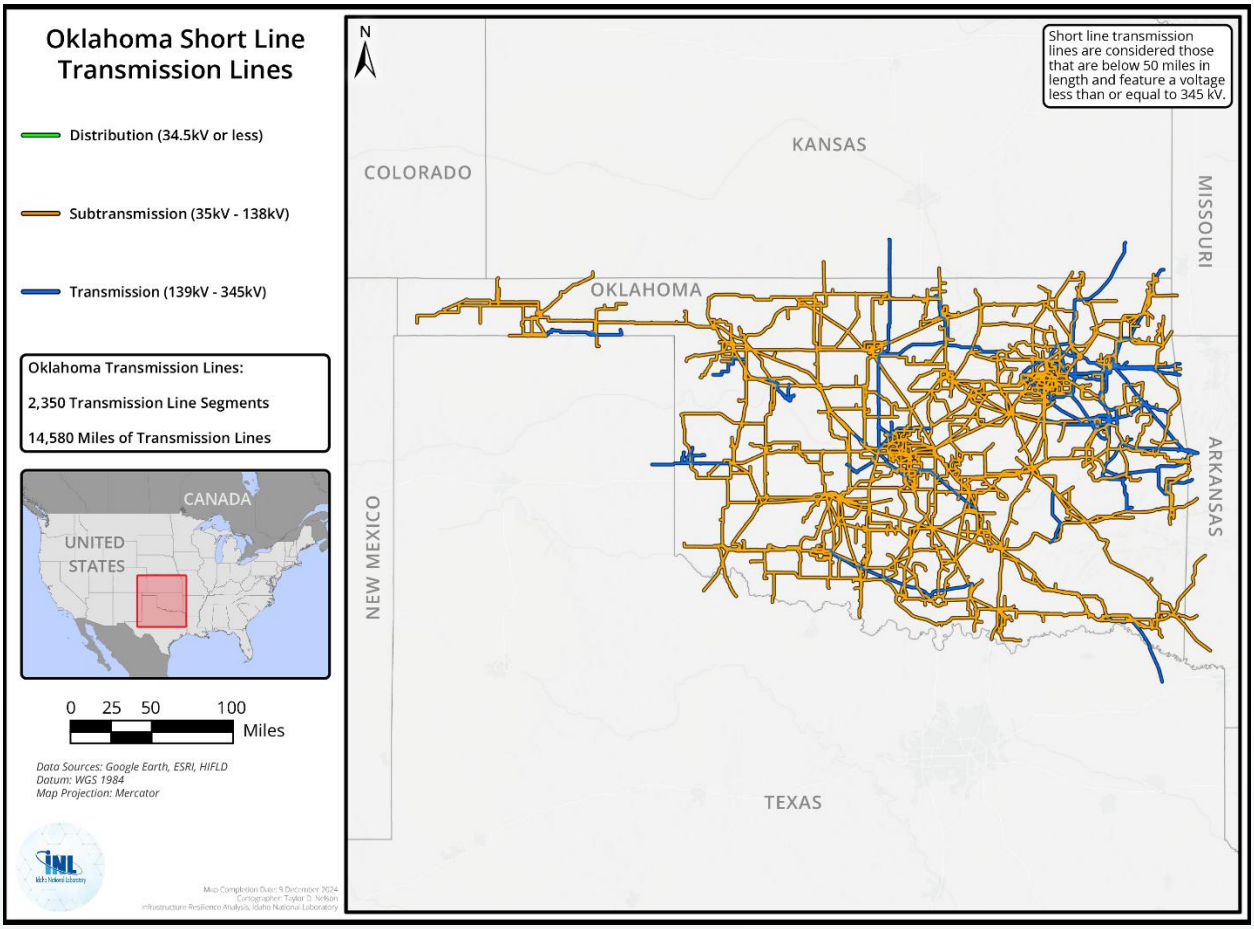
NORTH DAKOTA



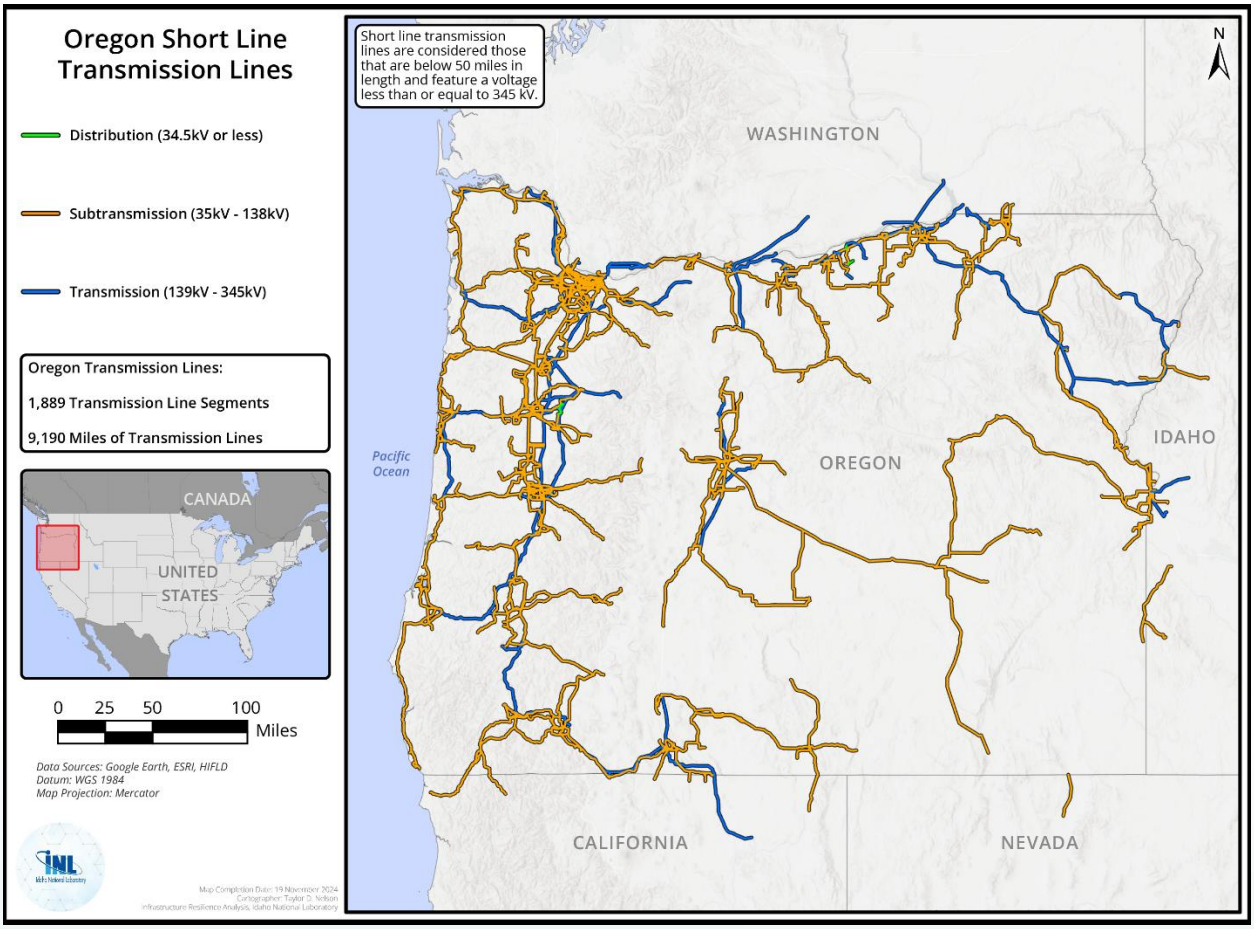
OHIO


Ohio Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Ohio Transmission Lines:
2,080 Transmission Line Segments
12,715 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
MICHIGAN
Lake Erie
PENNSYLVANIA
OHIO
INDIANA
WEST VIRGINIA
KENTUCKY

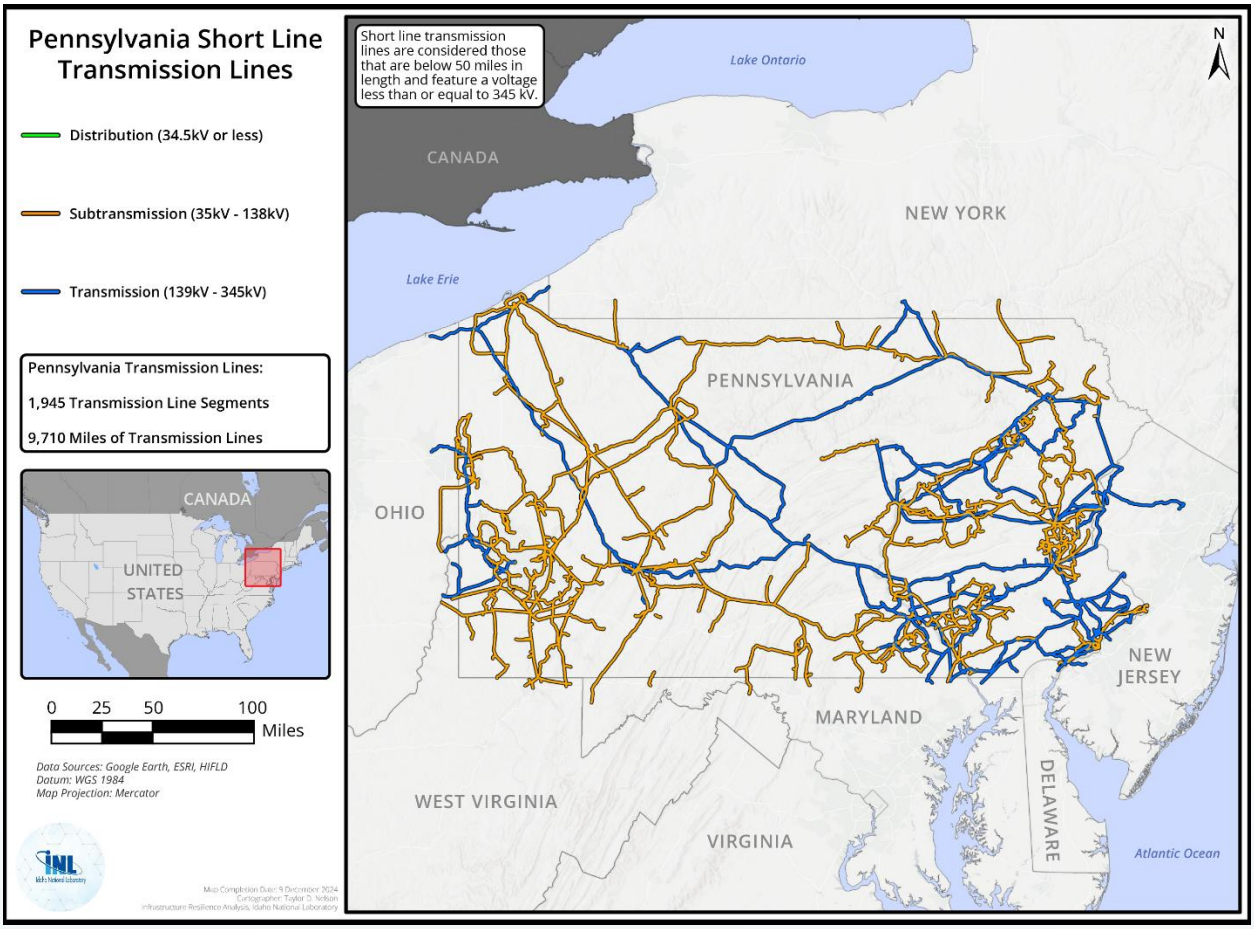
OKLAHOMA


Oklahoma Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Oklahoma Transmission Lines:
2,350 Transmission Line Segments
14,580 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
N
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
COLORADO
KANSAS
MISSOURI
OKLAHOMA
NEW MEXICO
ARKANSAS
TEXAS

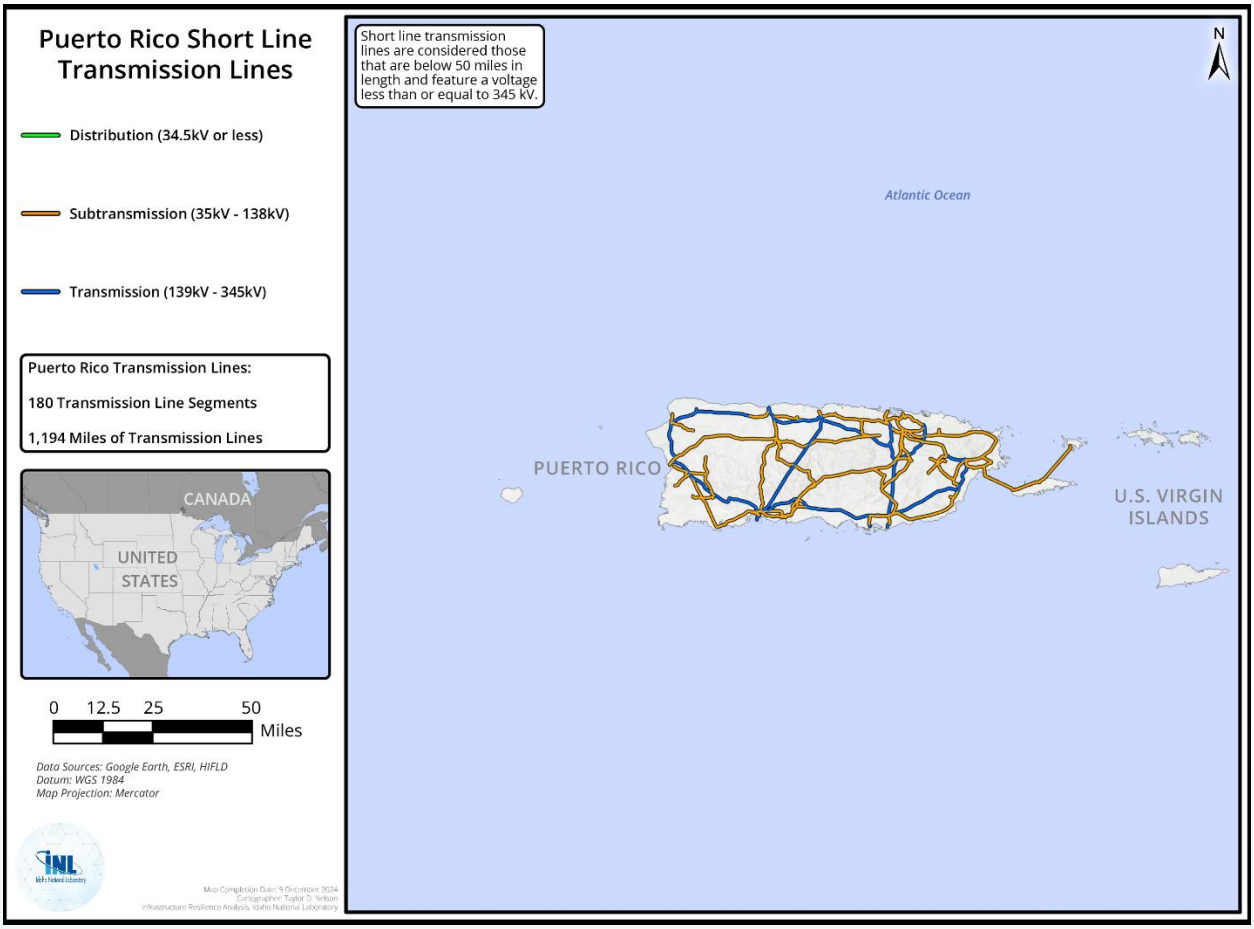
OREGON


Oregon Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Oregon Transmission Lines:
1,889 Transmission Line Segments
9,190 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
WASHINGTON
Pacific Ocean
OREGON
IDAHO
CALIFORNIA
NEVADA

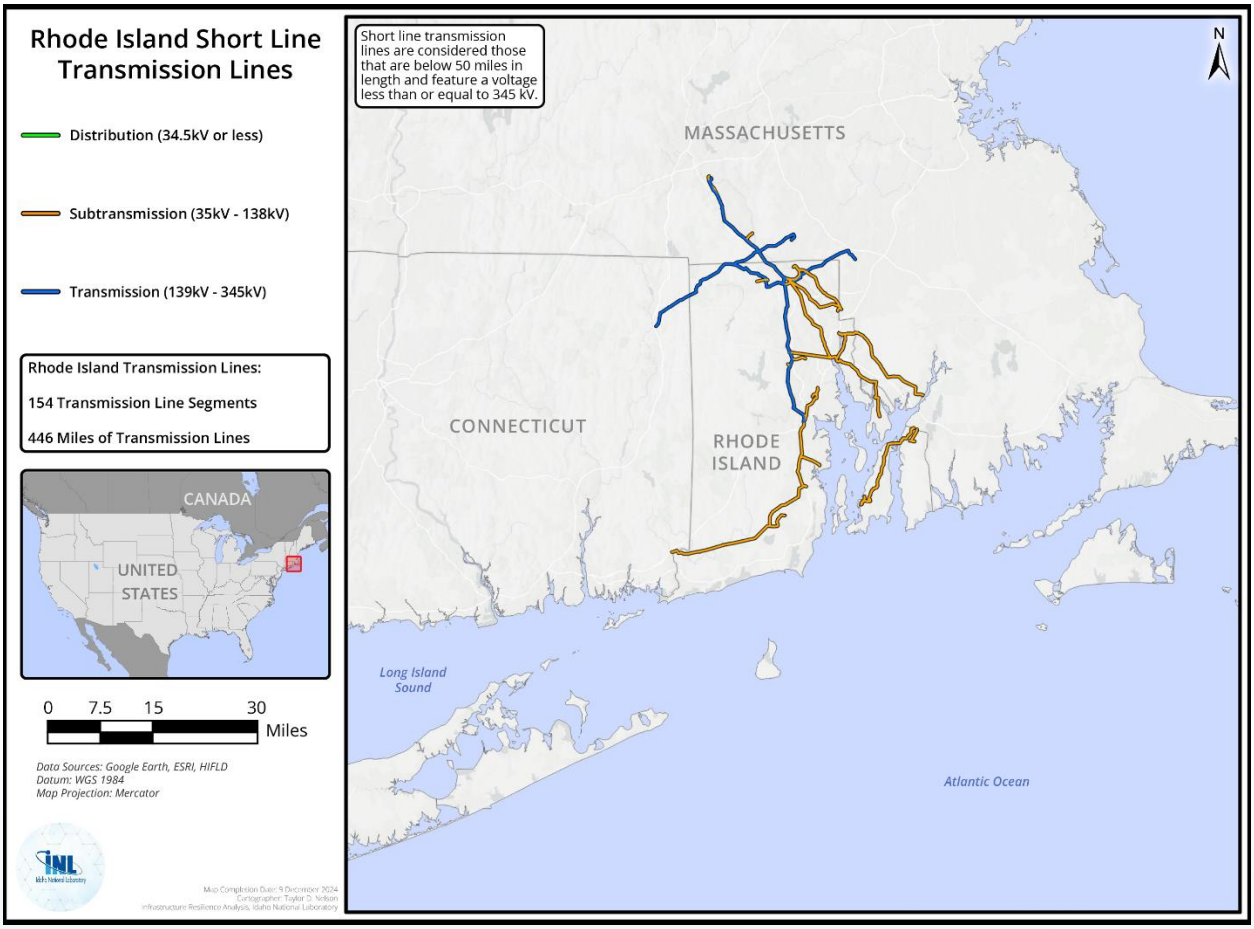
PENNSYLVANIA



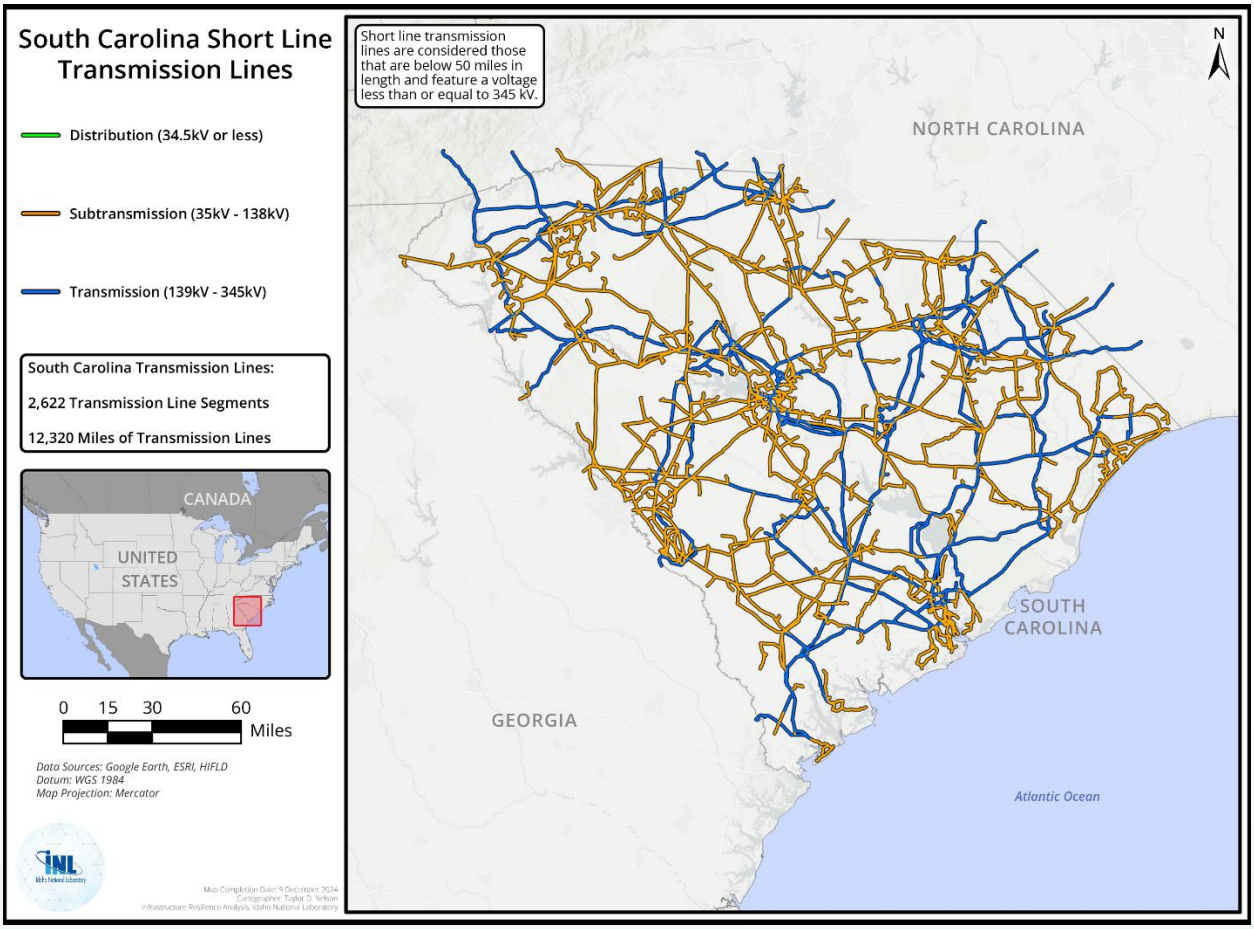
PUERTO RICO


Puerto Rico Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Puerto Rico Transmission Lines:
180 Transmission Line Segments
1,194 Miles of Transmission Lines
CANADA
UNITED STATES
0 12.5 25 50
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
Atlantic Ocean
PUERTO RICO
U.S. VIRGIN ISLANDS

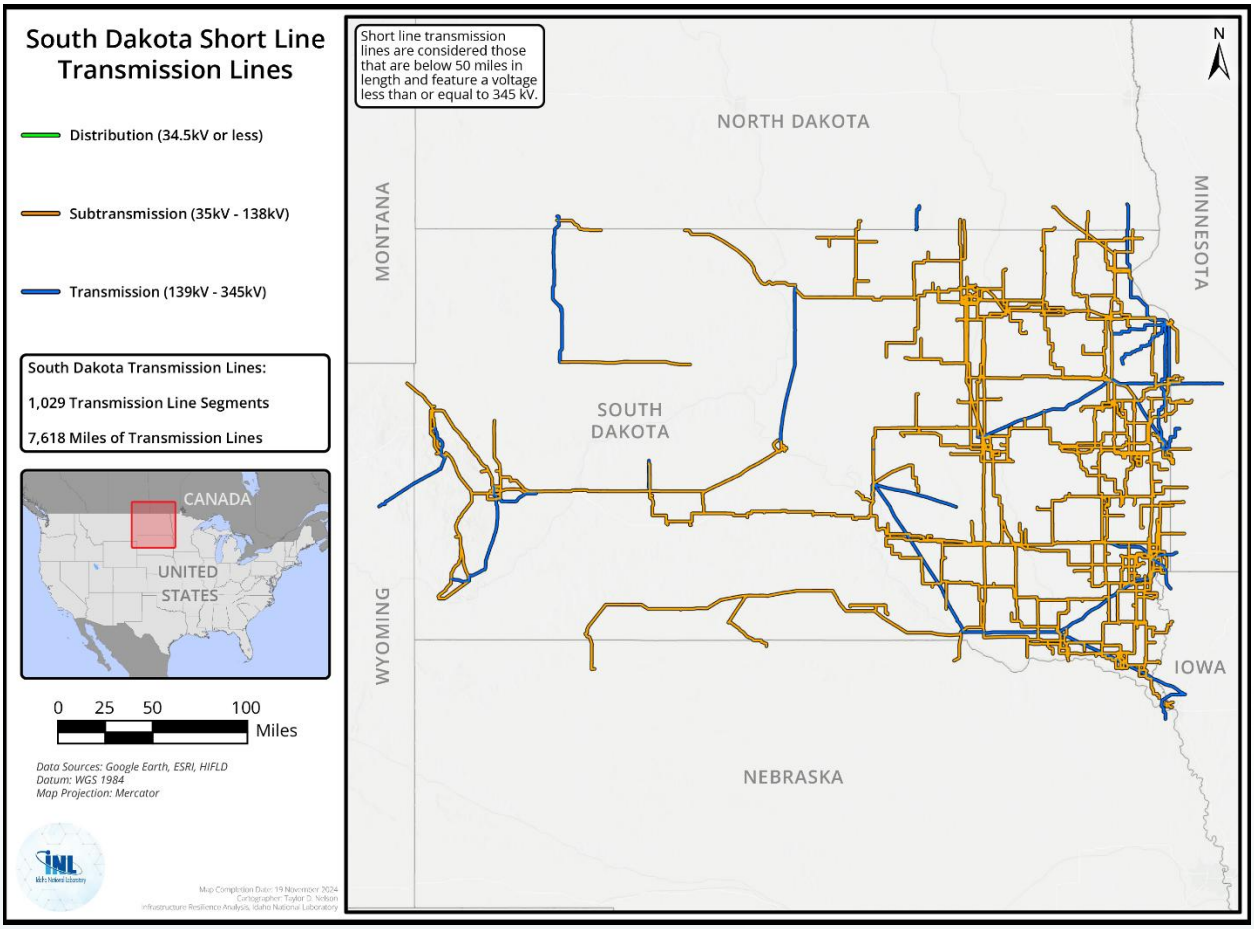
RHODE ISLAND



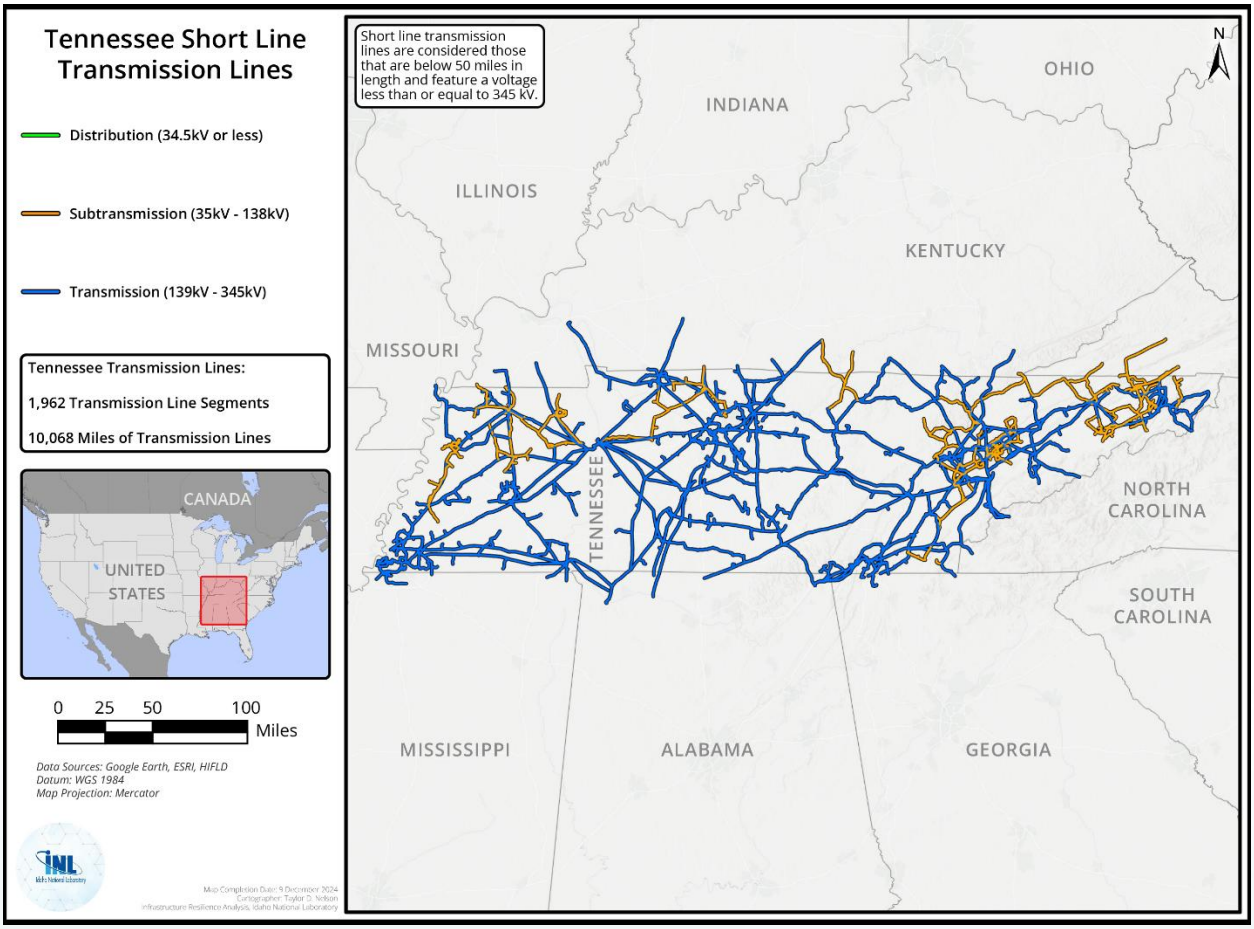
SOUTH CAROLINA



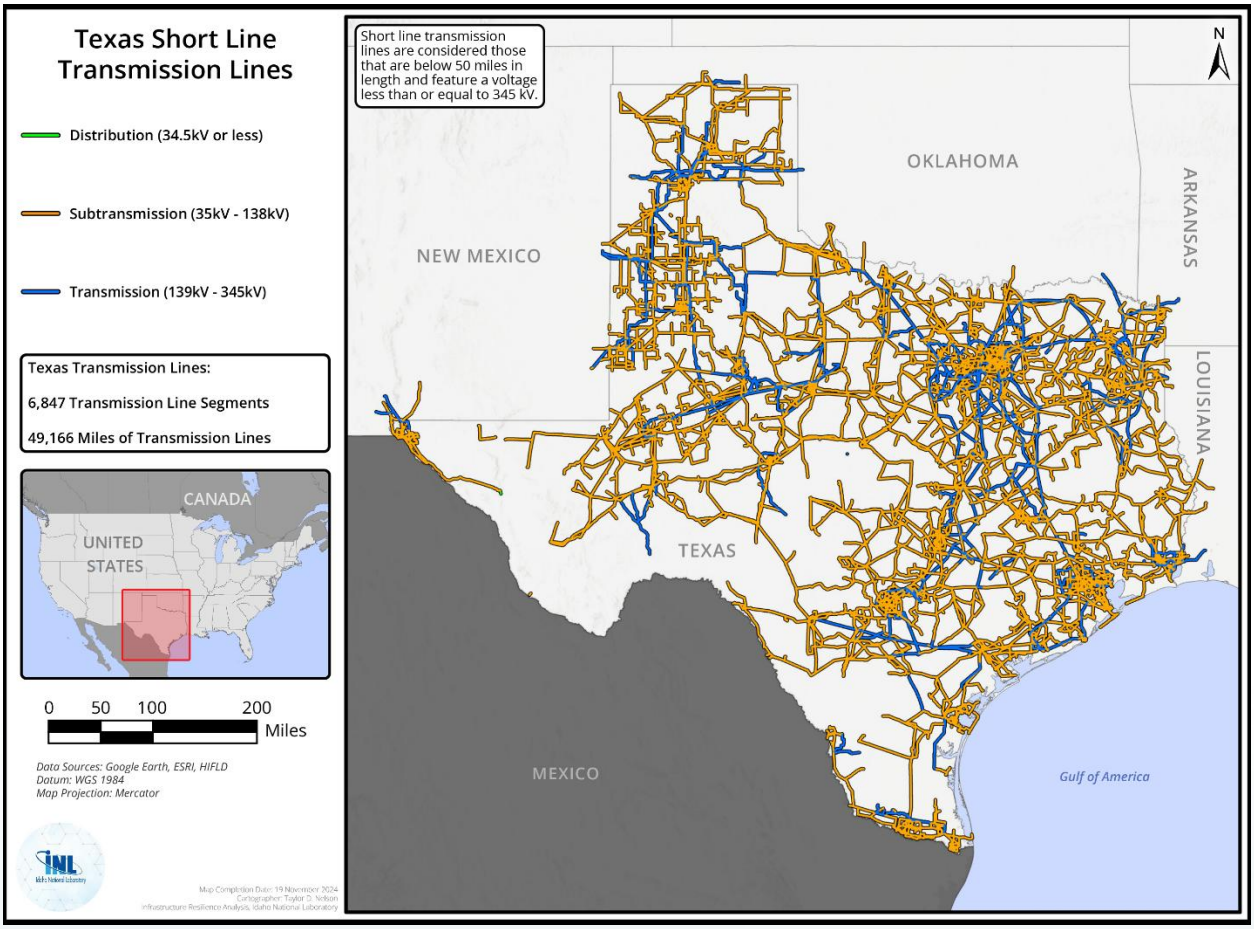
SOUTH DAKOTA



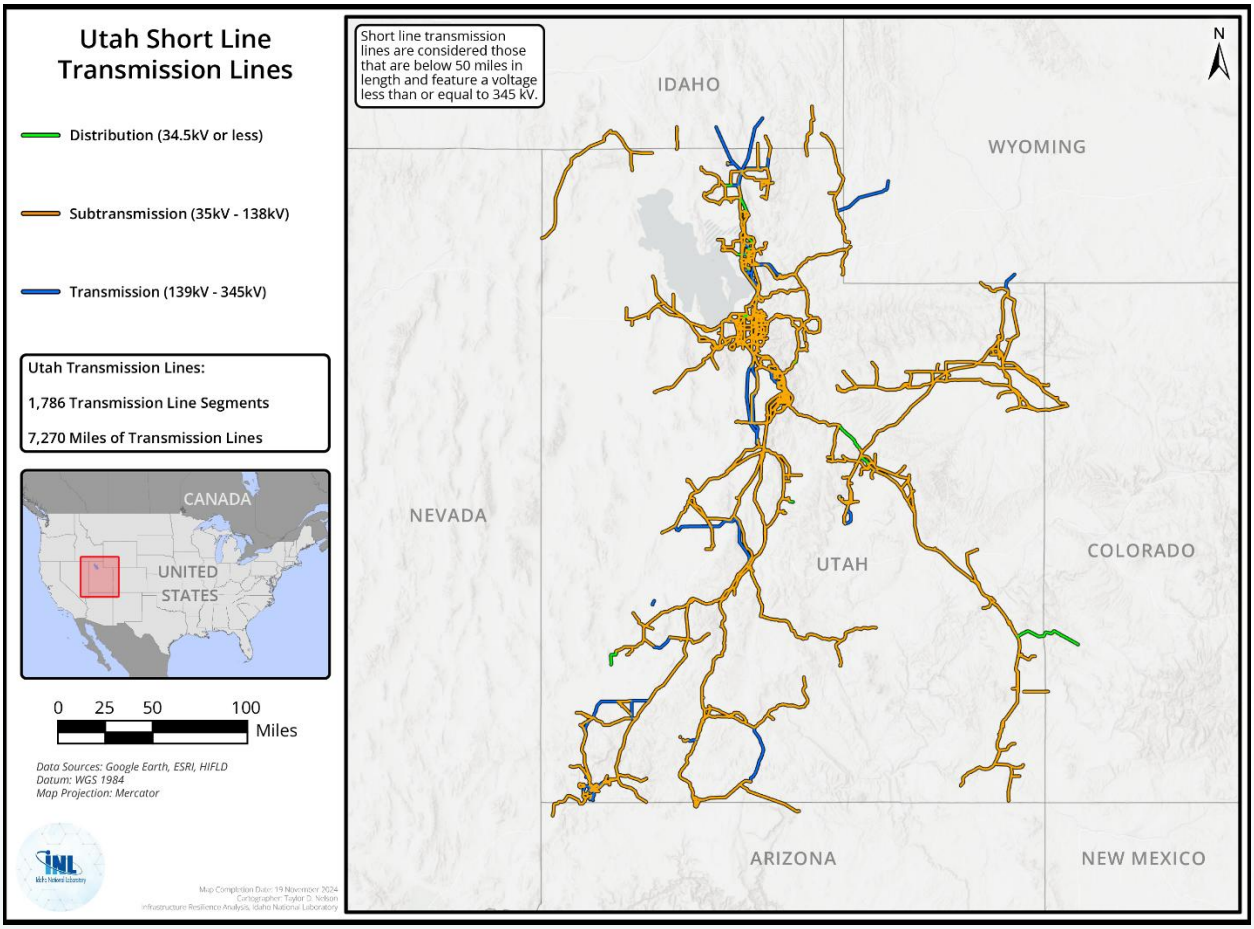
TENNESSEE


Tennessee Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Tennessee Transmission Lines:
1,962 Transmission Line Segments
10,068 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
OHIO
INDIANA
ILLINOIS
KENTUCKY
MISSOURI
TENNESSEE
NORTH CAROLINA
SOUTH CAROLINA
MISSISSIPPI
ALABAMA
GEORGIA

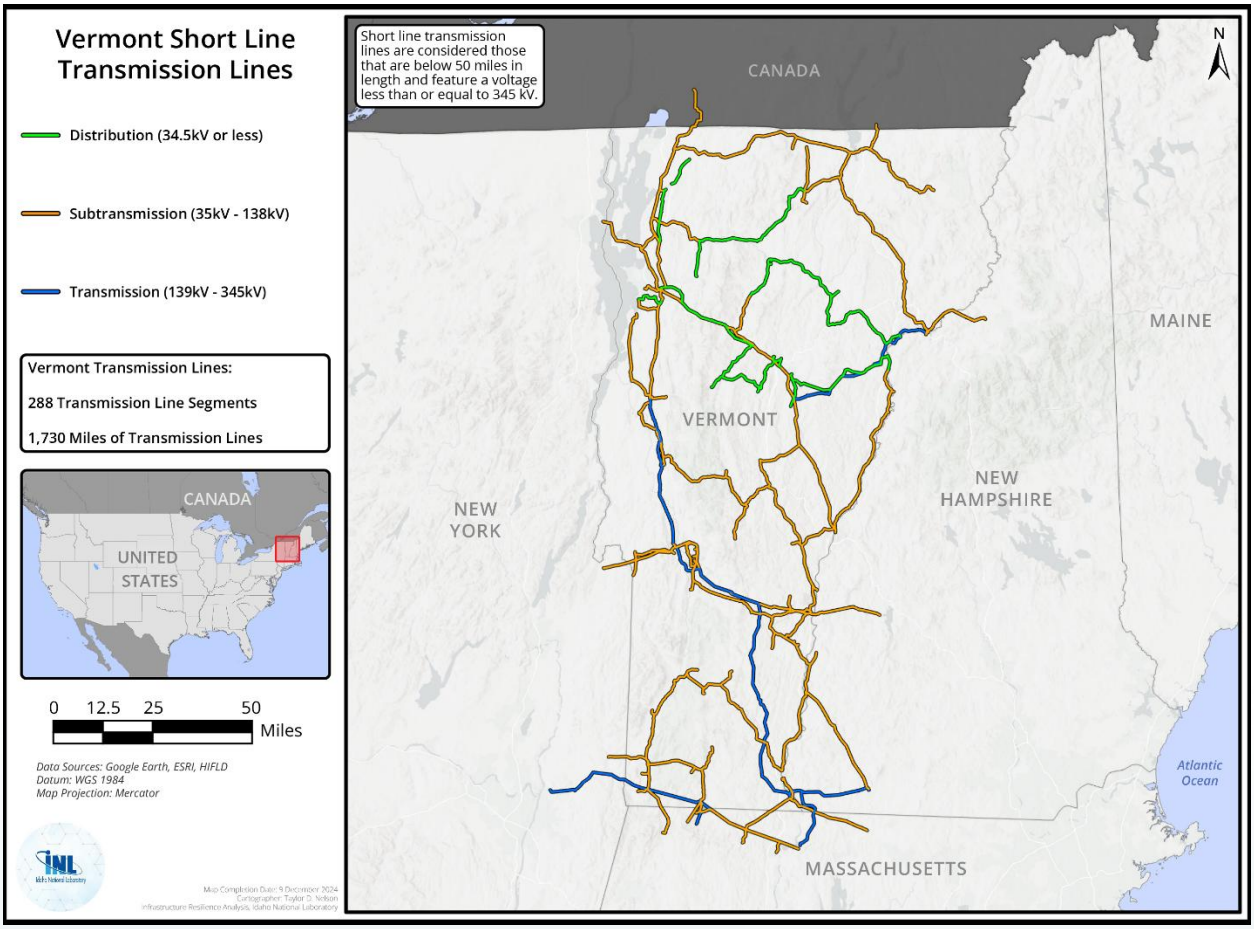
TEXAS


Texas Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Texas Transmission Lines:
6,847 Transmission Line Segments
49,166 Miles of Transmission Lines
CANADA
UNITED STATES
0 50 100 200
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
OKLAHOMA
ARKANSAS
NEW MEXICO
LOUISIANA
TEXAS
MEXICO
Gulf of America

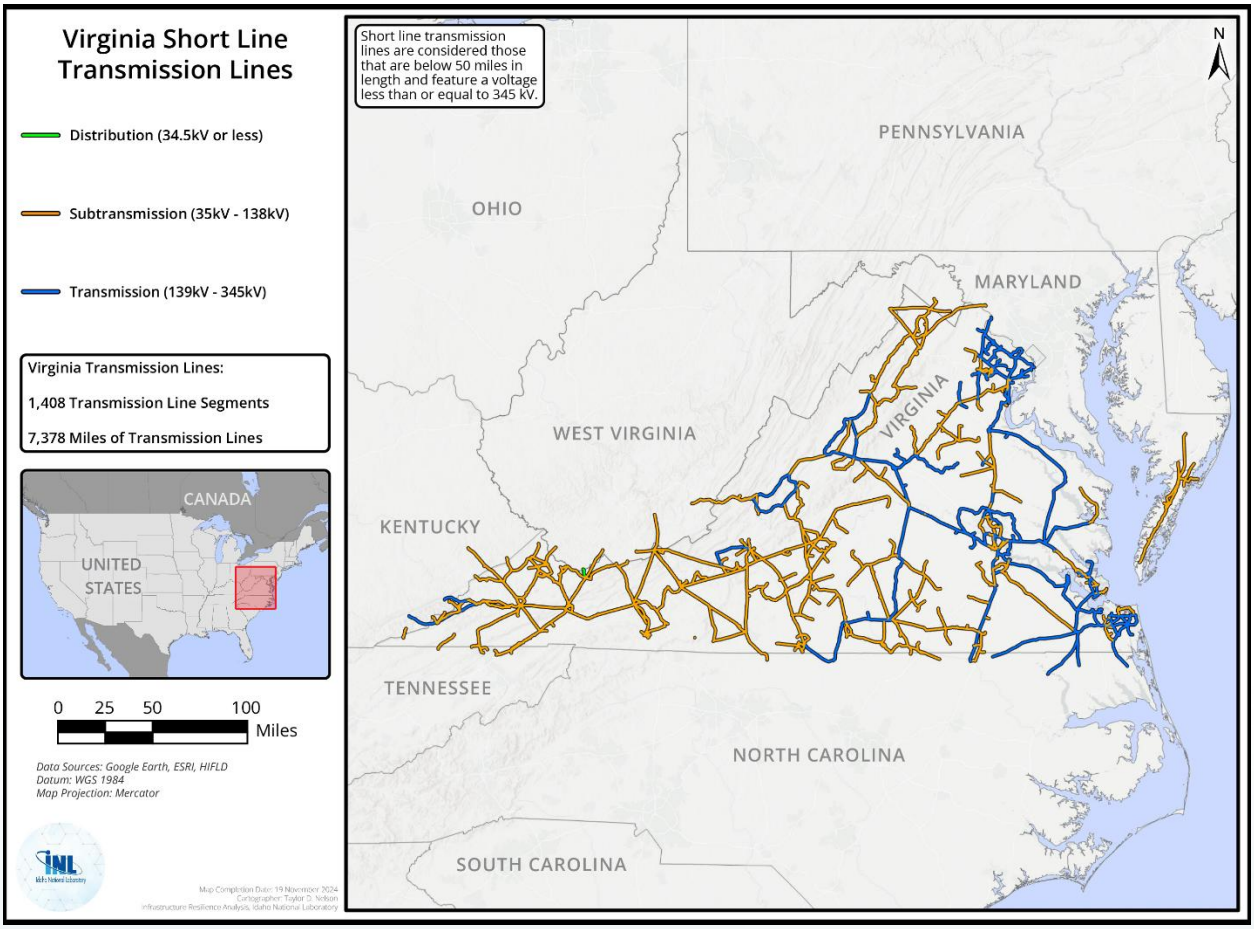
UTAH


Utah Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Utah Transmission Lines:
1,786 Transmission Line Segments
7,270 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
ARIZONA
NEW MEXICO

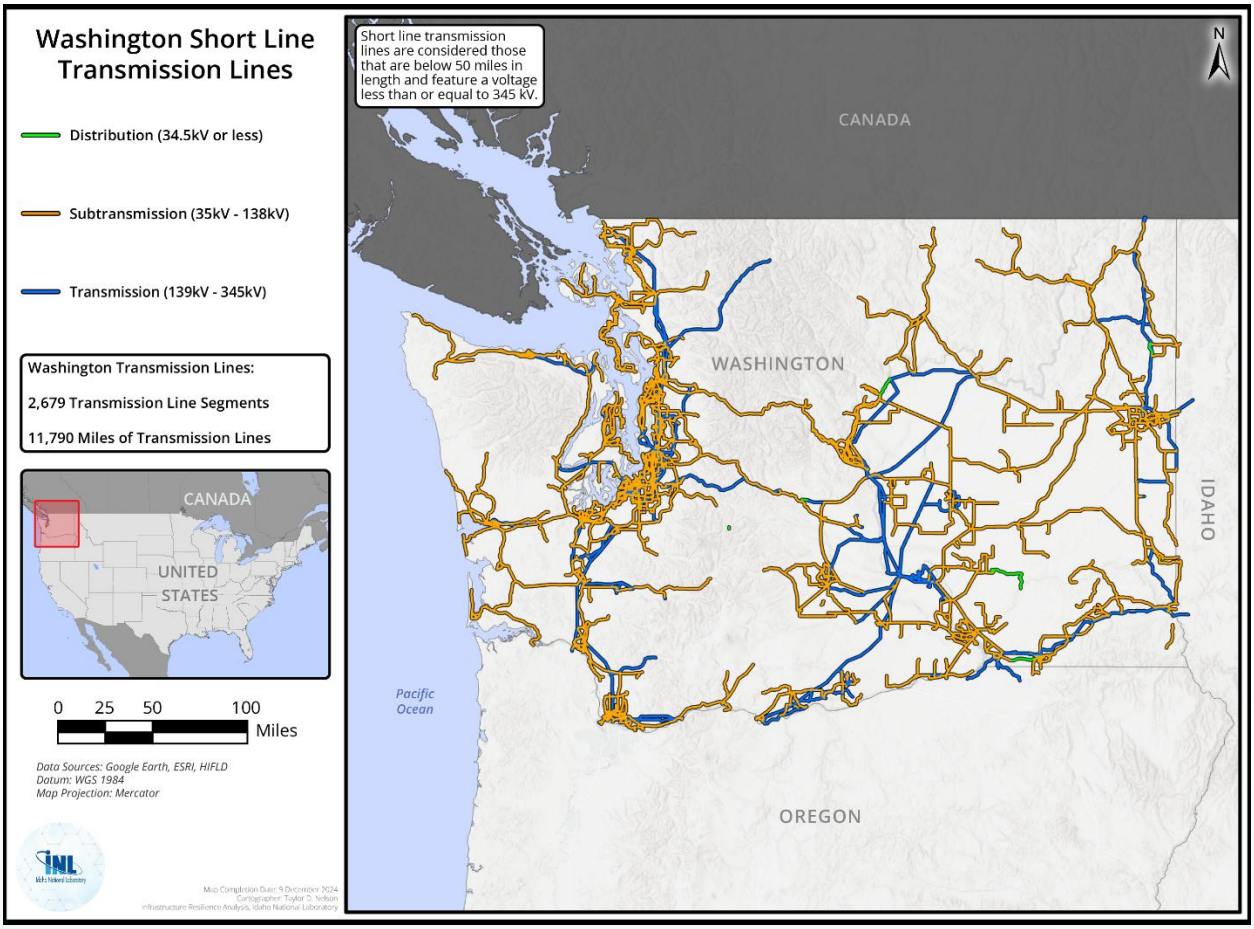
VERMONT


Vermont Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Vermont Transmission Lines:
288 Transmission Line Segments
1,730 Miles of Transmission Lines
CANADA
UNITED STATES
0 12.5 25 50
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
CANADA
N
MAINE
VERMONT
NEW HAMPSHIRE
NEW YORK
Atlantic Ocean
MASSACHUSETTS

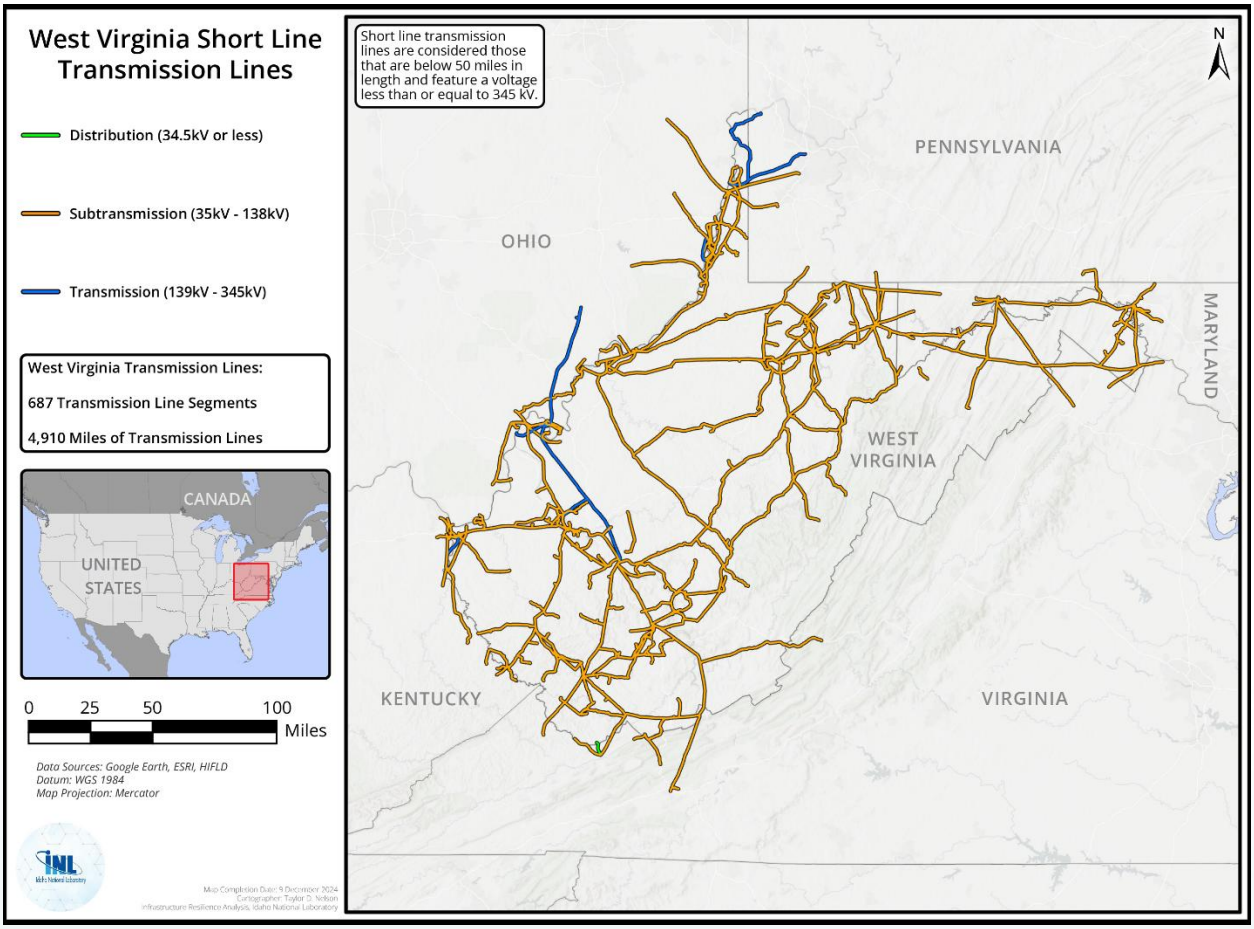
VIRGINIA


Virginia Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Virginia Transmission Lines:
1,408 Transmission Line Segments
7,378 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
PENNSYLVANIA
OHIO
MARYLAND
WEST VIRGINIA
VIRGINIA
KENTUCKY
TENNESSEE
NORTH CAROLINA
SOUTH CAROLINA

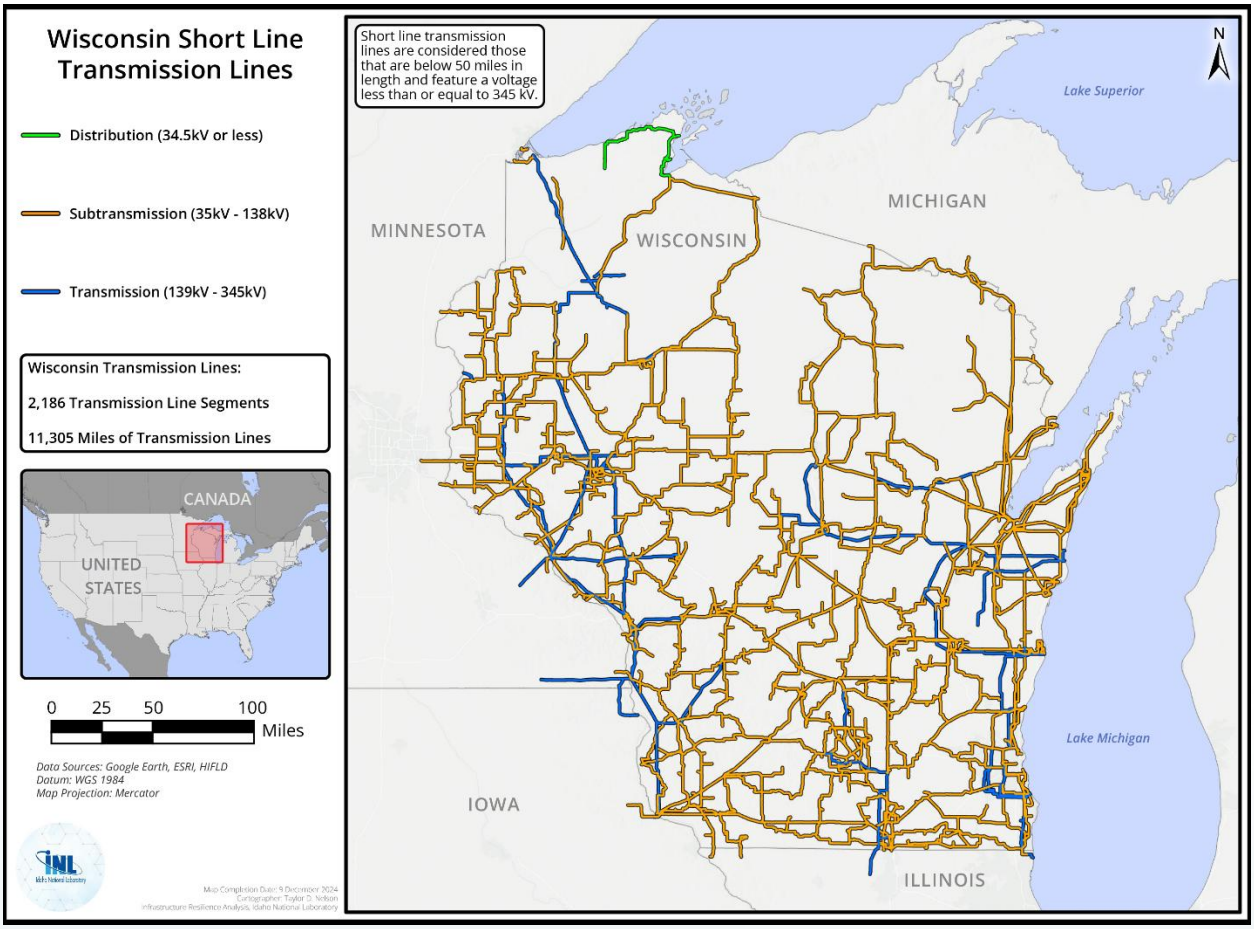
WASHINGTON


Washington Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Washington Transmission Lines:
2,679 Transmission Line Segments
11,790 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
CANADA
WASHINGTON
IDAHO
Pacific Ocean
OREGON

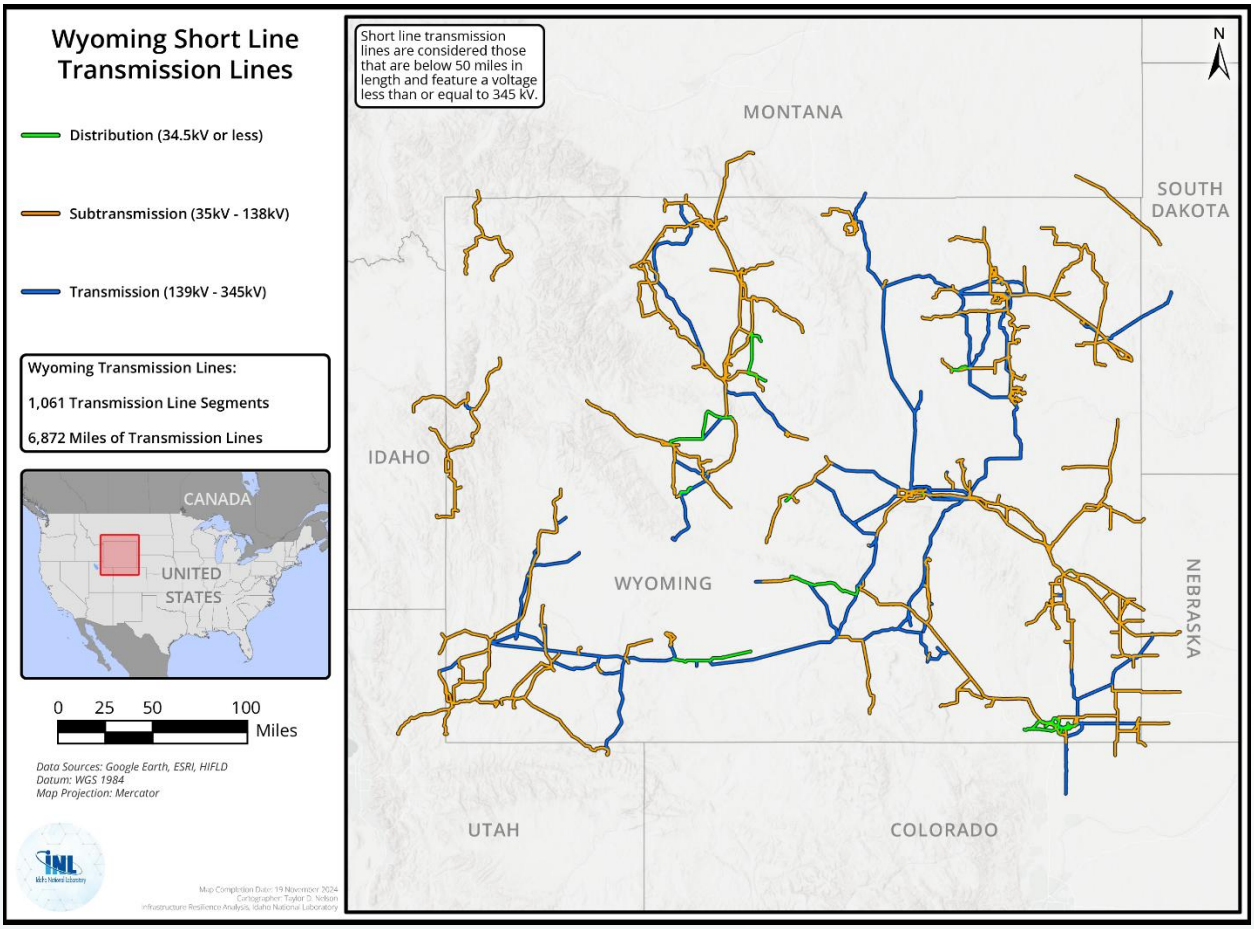
WEST VIRGINIA



WISCONSIN


Wisconsin Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Wisconsin Transmission Lines:
2,186 Transmission Line Segments
11,305 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
Lake Superior
MICHIGAN
MINNESOTA
WISCONSIN
Lake Michigan
IOWA
ILLINOIS

WYOMING


Wyoming Short Line Transmission Lines
Distribution (34.5kV or less)
Subtransmission (35kV - 138kV)
Transmission (139kV - 345kV)
Wyoming Transmission Lines:
1,061 Transmission Line Segments
6,872 Miles of Transmission Lines
CANADA
UNITED STATES
0 25 50 100
Miles
Data Sources: Google Earth, ESRI, HIFLD
Datum: WGS 1984
Map Projection: Mercator
Short line transmission lines are considered those that are below 50 miles in length and feature a voltage less than or equal to 345 kV.
N
MONTANA
SOUTH DAKOTA
IDAHO
WYOMING
NEBRASKA
UTAH
COLORADO