

STATE OF INDIANA

INDIANA UTILITY REGULATORY COMMISSION

VERIFIED JOINT PETITION OF NORTHERN INDIANA PUBLIC)
SERVICE COMPANY LLC (“NIPSCO”) AND ROSEWATER WIND)
GENERATION LLC (THE “JOINT VENTURE”) FOR (1) ISSUANCE)
TO NIPSCO OF A CERTIFICATE OF PUBLIC CONVENIENCE AND)
NECESSITY FOR THE PURCHASE AND ACQUISITION OF A 102 MW)
WIND FARM (“THE ROSEWATER PROJECT”); (2) APPROVAL OF)
THE ROSEWATER PROJECT AS A CLEAN ENERGY PROJECT)
UNDER IC 8-1-8.8-11; (3) APPROVAL OF RATEMAKING AND)
ACCOUNTING TREATMENT ASSOCIATED WITH THE)
ROSEWATER PROJECT; (4) AUTHORITY TO ESTABLISH)
AMORTIZATION RATES FOR NIPSCO’S INVESTMENT IN THE)
JOINT VENTURE; (5) APPROVAL PURSUANT TO IC 8-1-2.5-6 OF AN) CAUSE NO. 45194
ALTERNATIVE REGULATORY PLAN INCLUDING)
ESTABLISHMENT OF JOINT VENTURE THROUGH WHICH THE)
ROSEWATER PROJECT WILL SUPPORT NIPSCO’S GENERATION)
FLEET AND THE REFLECTION IN NIPSCO’S NET ORIGINAL COST)
RATE BASE OF ITS INVESTMENT IN JOINT VENTURE; (6))
APPROVAL OF PURCHASED POWER AGREEMENTS THROUGH)
WHICH NIPSCO WILL RECEIVE THE ENERGY GENERATED BY)
THE ROSEWATER PROJECT, INCLUDING TIMELY COST)
RECOVERY PURSUANT TO IND. CODE §8-1-8.8-11 THROUGH)
NIPSCO’S FUEL ADJUSTMENT CLAUSE; (7) AUTHORITY TO)
DEFER AMORTIZATION AND TO ACCRUE POST-IN SERVICE)
CARRYING CHARGES ON NIPSCO’S INVESTMENT IN JOINT)
VENTURE; (8) TO THE EXTENT GENERALLY ACCEPTED)
ACCOUNTING PRINCIPLES WOULD TREAT ANY ASPECT OF)
JOINT VENTURE AS DEBT ON NIPSCO’S FINANCIAL)
STATEMENTS, APPROVAL OF FINANCING; AND (9) APPROVE AN)
ALTERNATIVE REGULATORY PLAN FOR NIPSCO IN ORDER TO)
FACILITATE THE IMPLEMENTATION OF THE ROSEWATER)
PROJECT; AND (10) TO THE EXTENT NECESSARY, ISSUANCE OF)
AN ORDER PURSUANT TO IC 8-1-2.5-5 DECLINING TO EXERCISE)
JURISDICTION OVER JOINT VENTURE AS A PUBLIC UTILITY.)

INDIANA MUNICIPAL UTILITY GROUP’S ATTACHMENTS TO THE
DIRECT TESTIMONY OF THEODORE SOMMER

The Indiana Municipal Utility Group (“IMUG”) hereby submits the Attachments
to the Direct Testimony of Theodore Sommer in the above captioned Cause.

Respectfully submitted,
/s/ R. M. Glennon

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CERTIFICATE OF SERVICE

The undersigned counsel hereby certifies that a copy of the foregoing document was served via electronic mail this 29th day of April, 2019:

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Attachment 1

Indiana Wind Farm Data (Dec. of Jurisdiction)

IURC Cause Nu	Wind Project	County	Nameplate Capacity (mW)	Completion Year
43068	Benton County Wi	Benton	130.5	2008
43338	Fowler Ridge Winc	Benton	301.3	2009
43443	Fowler Ridge Winc	Benton	199.5	2009
43444	Fowler Ridge Winc	Benton	99	2009
43484	Hoosier Wind Farn	Benton	106	2009
43602	Meadow Lake Win	White	199.7	2009
43678	Meadow Lake Win	White	99	2010
43747	Meadow Lake Win	White	110.4	2010
43758	Meadow Lake Win	White	98.7	2010
44044	Wildcat Wind Farn	Madison/Tipton	200	2012
44358	Headwaters Wind	Randolph	200	2014
44438	Fowler Ridge IV W	Benton	150	2015
43876	Meadow Lake Win	White	100.8	2017
44299	Bluff Point Wind F.	Jay/Randolph	119	2017
45010	Meadow Lake Win	White	200	2018
	Total Operating		2,313.90	
44978	Jordan Creek Winc	Warren	400	2020
	Total Under Construction in 2018		400	
43781	Spartan Wind Farn	Newton	150	
	Total without Construction Start		150	
45047	West Fork Wind F.	Fayette	102	2020
45165	Bitter Ridge Wind	Jay	130	2020
45202	Headwaters II Win	Randolph	200	2020
45207	Roaming Bison Wii	Montgomery	303.6	2020
45194	Rosewater Wind F.	White	102	2020
Total Pending IURC Declination/ Authorization			837.6	
Grand Total			3,701.50	

Wind Farms with Pending PPAs or CPCNs

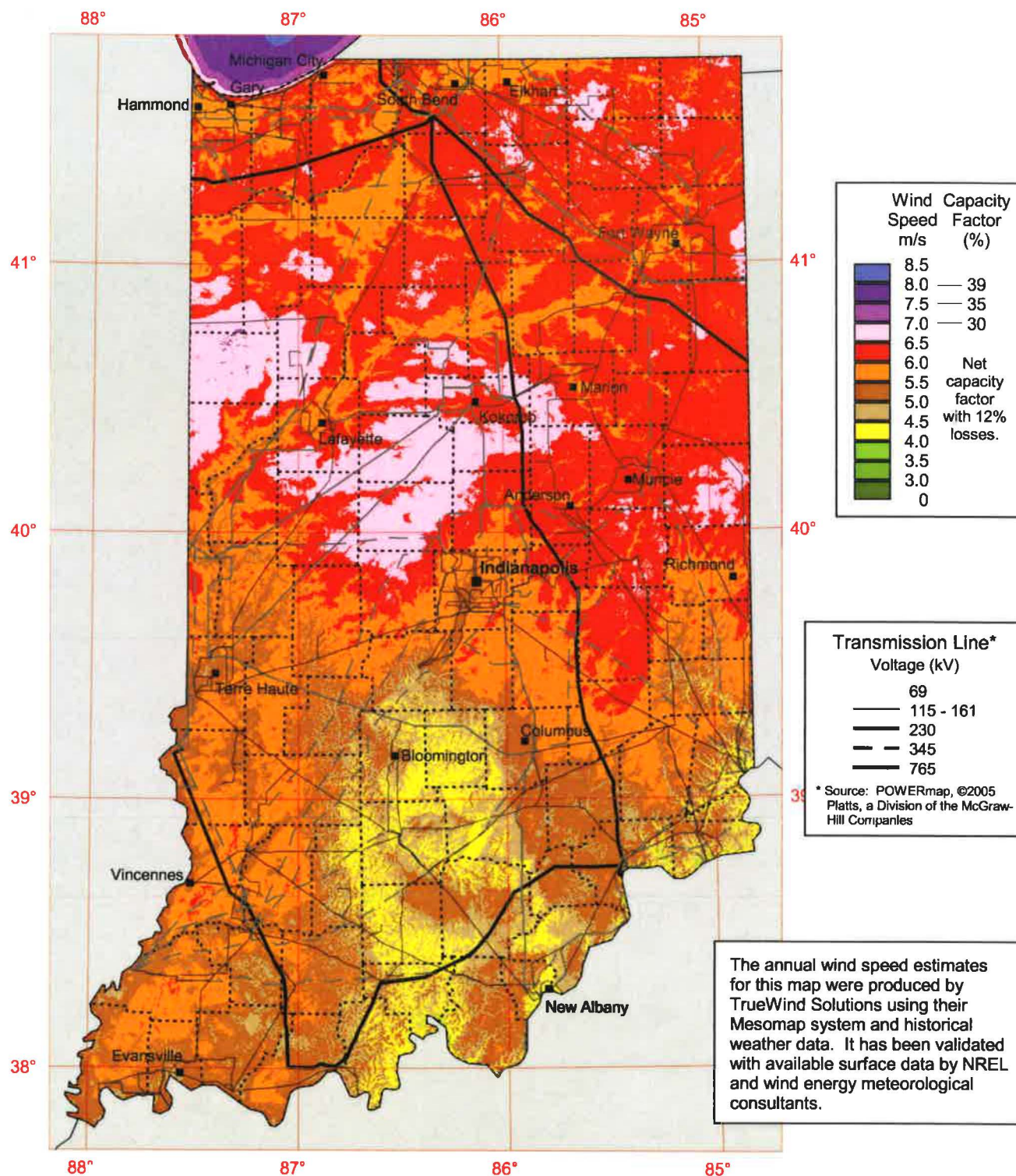
45194	Rosewater Wind F. White	NIPSCO CPCN
45196	Roaming Bison Wii Montgomery	NIPSCO PPA
45195	Jordan Creek Winc Warren	NIPSCO PPA

Wind Farms in S&P Global - In Development - Have not filed with the IURC

Calpine	Big Blue River	Henry	200	2020
APEX	Flat Rock	Henry	180	2020
E.ON	Gibson	Gibson	200	n/a
APEX	Plum Tree	Huntington	100	2019
Akuo	Sugar Creek	Montgomery	400	n/a
Total in Development (S&P Global Data)			1,080.00	

Operating Solar Photovoltaic Generators in Indiana 1 MW ac and Larger					
	Location	Utility	Indiana County	Installed (MW ac)	Source
1	Crane Solar	Duke	Martin	17.25	Cause Numbers 44932 and 44734
2	Indy Solar No. 1 (Franklin Township)	IPL	Marion	10.00	IPL Feed-in-Tariff Cause No. 44018
3	Indy Solar No. 2 (Franklin Township)	IPL	Marion	10.00	IPL Feed-in-Tariff Cause No. 44018
4	Indianapolis Airport No. 1	IPL	Marion	9.80	IPL Feed-in-Tariff Cause No. 44018
5	Indianapolis Motor Speedway	IPL	Marion	9.00	IPL Feed-in-Tariff Cause No. 44018
6	Indy Solar No. 3 (Decatur Township)	IPL	Marion	8.64	IPL Feed-in-Tariff Cause No. 44018
7	Anderson II Solar Park	IMPA	Madison	8.00	IMPA IRP
8	Vertellus	IPL	Marion	8.00	IPL Feed-in-Tariff Cause No. 44018
9	Indianapolis Airport Phase II A	IPL	Marion	7.50	IPL Feed-in-Tariff Cause No. 44018
10	McDonald Solar	Duke	Vigo	5.00	Duke Website and Cause Nos. 44578, 44953
11	Pastime Farm	Duke	Clay	5.00	Duke Website and Cause Nos. 44578, 44953
12	Geres Energy	Duke	Howard	5.00	Duke Website and Cause Nos. 44578, 44953
13	Sullivan Solar	Duke	Sullivan	5.00	Duke Website and Cause Nos. 44578, 44953
14	Anderson I Solar Park	IMPA	Madison	5.00	IMPA IRP
15	Olive	I&M	St. Joseph	5.00	I&M Cause Number 44511
16	Lifeline Data Centers	IPL	Marion	4.00	IPL Feed-in-Tariff Cause No. 44018
17	Washington Solar Park	IMPA	Daviess	4.00	IMPA IRP
18	CWA Authority	IPL	Marion	3.83	IPL Feed-in-Tariff Cause No. 44018
19	Duke Realty #129	IPL	Marion	3.40	IPL Feed-in-Tariff Cause No. 44018
20	Crawfordsville Solar Park	IMPA	Montgomery	3.00	IMPA IRP
21	Peru Solar Park	IMPA	Miami	3.00	IMPA IRP
22	Greenfield Solar Park	IMPA	Hancock	2.84	IMPA IRP
23	Rexnord Industries	IPL	Marion	2.80	IPL Feed-in-Tariff Cause No. 44018
24	Equity Industrial	IPL	Marion	2.73	IPL Feed-in-Tariff Cause No. 44018
25	Duke Realty #98	IPL	Marion	2.72	IPL Feed-in-Tariff Cause No. 44018
26	Duke Realty #87	IPL	Marion	2.72	IPL Feed-in-Tariff Cause No. 44018
27	Twin Branch	I&M	St. Joseph	2.60	I&M Cause Number 44511
28	Deer Creek	I&M	St. Joseph	2.50	I&M Cause Number 44511
29	Indianapolis Airport Phase II B	IPL	Marion	2.50	IPL Feed-in-Tariff Cause No. 44018
30	Lake County Solar, LLC - East Chicago	NIPSCO	Lake	2.00	NIPSCO Feed-in-Tariff Cause No. 43922
31	Lake County Solar, LLC - Griffith	NIPSCO	Lake	2.00	NIPSCO Feed-in-Tariff Cause No. 43922
32	Pendleton Solar Park	IMPA	Madison	2.00	IMPA IRP
33	GSA Bean Finance Center	IPL	Marion	1.80	IPL Feed-in-Tariff Cause No. 44018
34	Huntingburg Solar Park	IMPA	Dubois	1.80	IMPA IRP
35	Citizens Energy (LNG North)	IPL	Marion	1.50	IPL Feed-in-Tariff Cause No. 44018
36	Midlebury Solar, LLC	NIPSCO	Elkhart	1.50	NIPSCO Feed-in-Tariff Cause No. 43922
37	Portage Solar, LLC	NIPSCO	Porter	1.50	NIPSCO Feed-in-Tariff Cause No. 43922
38	Lincoln Solar, LLC	NIPSCO	Cass	1.50	NIPSCO Feed-in-Tariff Cause No. 43922
39	Frankton Solar Park	IMPA	Madison	1.00	IMPA IRP
40	Bartholomew County Solar Farm	Hoosier	Bartholomew	1.00	Hoosier Energy IRP and SNL
41	Decatur County Solar Farm	Hoosier	Decatur	1.10	Hoosier Energy IRP and SNL
42	Jackson Solar Farm	Hoosier	Jackson	1.10	Hoosier Energy IRP and SNL
43	Johnson County Solar	Hoosier	Johnson	1.10	Hoosier Energy IRP and SNL
44	Ellettsville Solar Farm	Hoosier	Monroe	1.08	Hoosier Energy IRP and SNL
45	Henryville Solar Farm	Hoosier	Clark	1.08	Hoosier Energy IRP and SNL
46	Lanesville Solar	Hoosier	Harrison	1.10	Hoosier Energy IRP and SNL
47	New Haven Solar	Hoosier	Allen	1.08	Hoosier Energy IRP and SNL
48	Scotland Solar	Hoosier	Greene	1.10	Hoosier Energy IRP and SNL
49	Spring Mill Solar	Hoosier	Lawrence	1.10	Hoosier Energy IRP and SNL
50	New Castle Solar	Hoosier	Henry	1.00	Hoosier Energy IRP and SNL
51	Grocers Supply Company	IPL	Marion	1.00	IPL Feed-in-Tariff Cause No. 44018
52	Hobart Solar, LLC	NIPSCO	Lake	1.00	NIPSCO Feed-in-Tariff Cause No. 43922
53	Valparaiso Solar, LLC	NIPSCO	Porter	1.00	NIPSCO Feed-in-Tariff Cause No. 43922
54	Waterloo Solar, LLC	NIPSCO	Dekalb	1.00	NIPSCO Feed-in-Tariff Cause No. 43922
55	Tell City Solar Park	IMPA	Perry	1.00	IMPA IRP
56	Rensselaer Solar Farm	IMPA	Jasper	1.00	IMPA IRP
57	Richmond Solar Farm	IMPA	Wayne	1.00	IMPA IRP

Indiana - 50 m Wind Speed



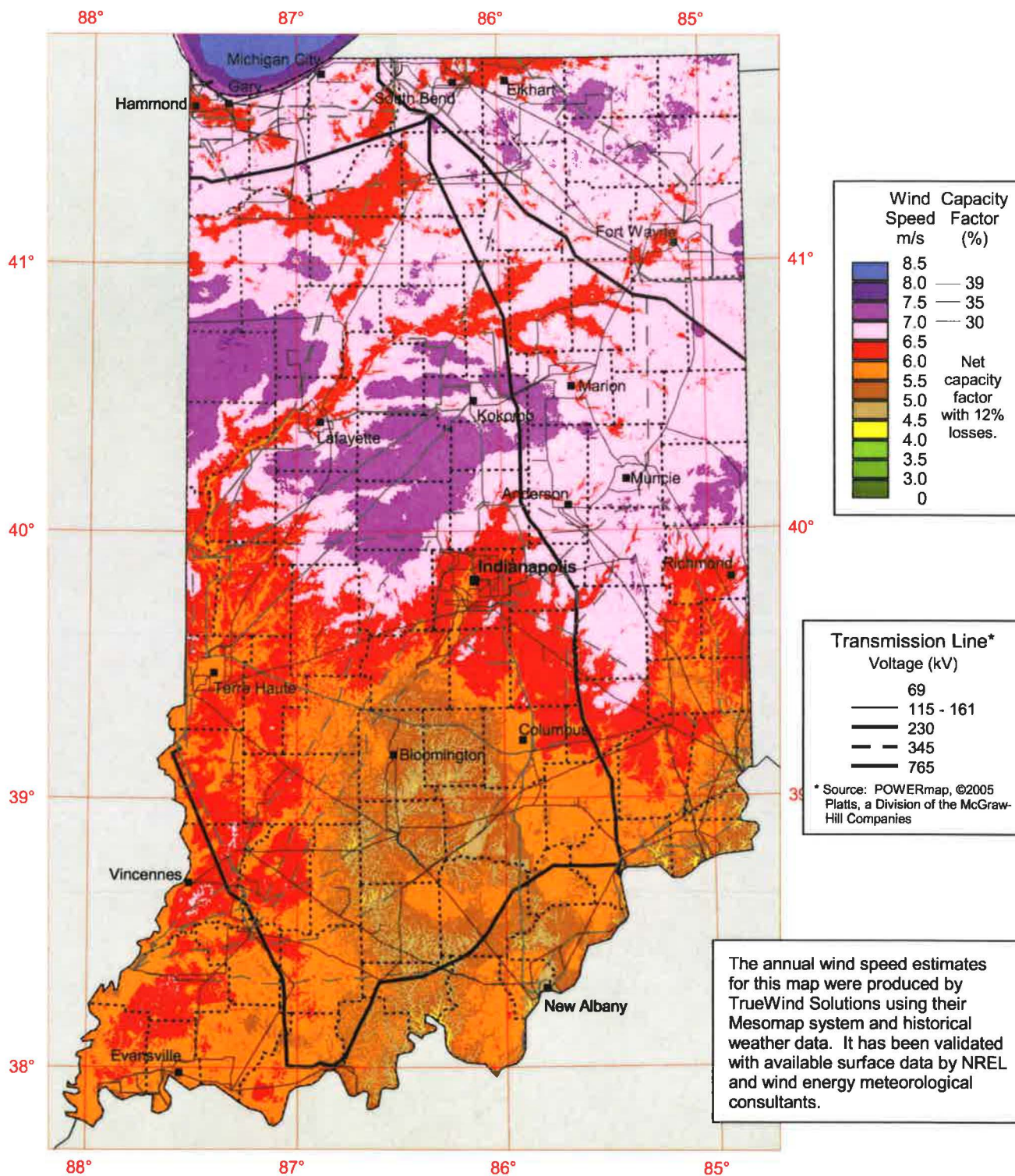
20 0 20 40 60 80 100 Kilometers
20 0 20 40 60 Miles

U.S. Department of Energy
National Renewable Energy Laboratory



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Indiana - 70 m Wind Speed



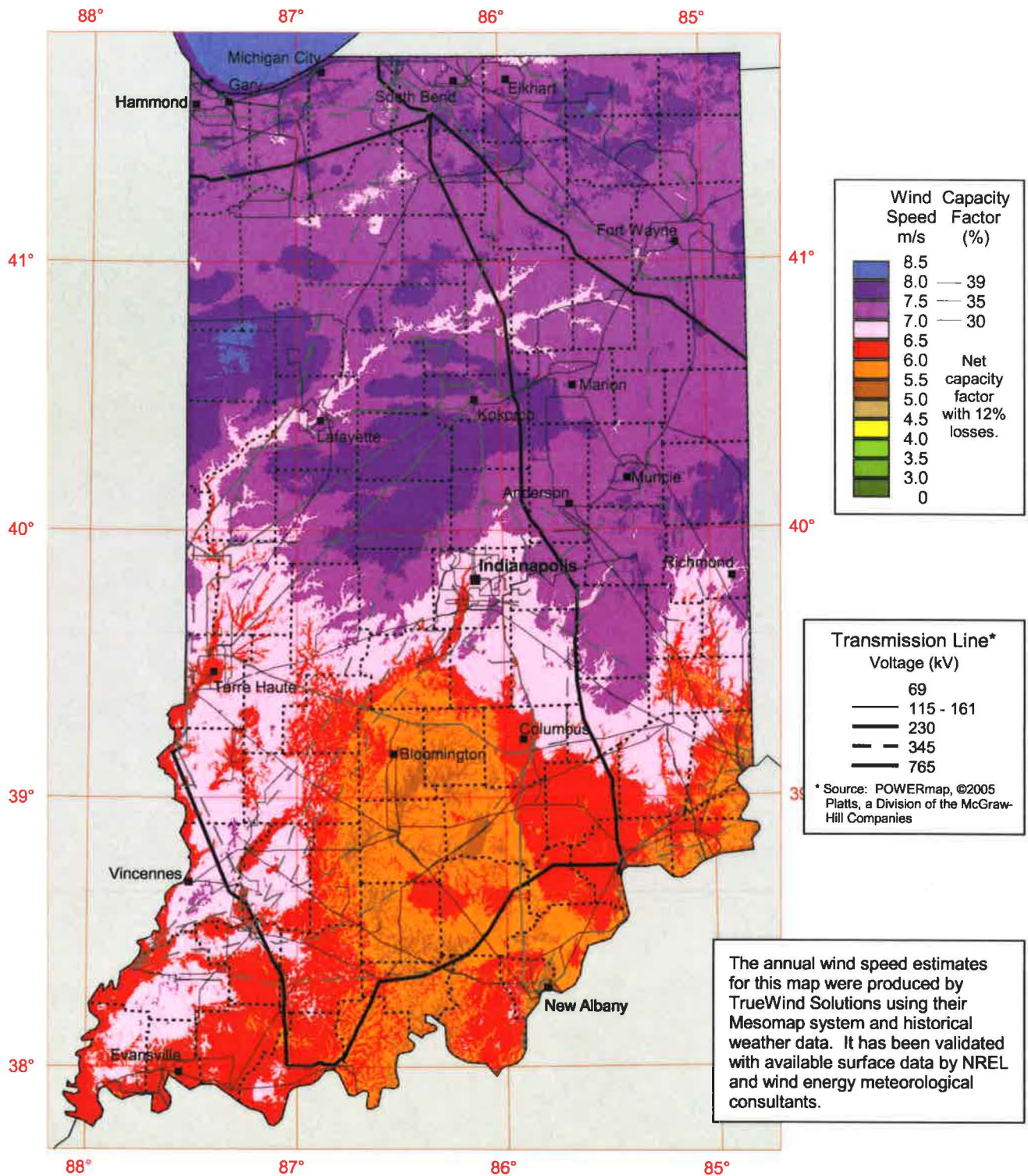
20 0 20 40 60 80 100 Kilometers
20 0 20 40 60 Miles

U.S. Department of Energy
National Renewable Energy Laboratory



23-JAN-2006 1.1.13

Indiana - 100 m Wind Speed



20 0 20 40 60 80 100 Kilometers
20 0 20 40 60 Miles

U.S. Department of Energy
National Renewable Energy Laboratory



23-JAN-2006 1.1.14