

Grain Belt Express Economic Impact Brief

The Grain Belt Express, an electrical transmission line project to deliver wind power to numerous Midwestern states, is expected to have a positive impact to Missouri's economy and workforce beginning in 2018. The project includes a 3-year construction period along with an operations phase which will continue benefits to the state in the years that follow.

During the 3-year construction phase there is expected to be over \$600 million in direct spending in Missouri to build the 205 miles of transmission line and for manufacturing and service contracts that cover work in four states. Over the three years this spending is estimated to have the following effects on Missouri's economy:

CONSTRUCTION PHASE OVER YEARS 2018-2021

1,527 Jobs supported over 3 years

\$246 M in **New Personal Income**

\$476 M in **New Gross Domestic Product**

After construction the transmission line will be operational and provide on-going benefits to the state in terms of landowner easement payments in 2021 of nearly \$15 million and \$1.23 million in the years that follow. In addition to landowner payments, \$5 million in new operations and maintenance spending is expected on an annual basis. This spending in Missouri is estimated to have the following annual impact to the state's economy:

OPERATIONS PHASE IN YEAR 2021

91 Jobs supported in this year

\$17.9 M in **New Personal Income**

\$9.1 M in **New Gross Domestic Product**

OPERATIONS PHASE IN YEAR 2022 AND AFTER

28 Jobs supported each year

\$2.6 M in **New Personal Income**

\$4.2 M in **New Gross Domestic Product**

Notes

The Missouri impact estimates for the construction and operations phases represent preliminary analysis of figures provided by Clean Line, the company building a roughly 700-mile high voltage line to connect Kansas wind turbines to energy users in Missouri, Illinois, and Indiana. 205 miles of that line is expected to cross Missouri. The impacts represent the total statewide effect over the construction phase (Years 2018-2020), the operations impact expected in year 2021 from one-time easement payments, and annual impacts from year 2022 onward assuming on-going structure payments, operations and maintenance. Impact figures are in millions of 2016 constant dollars.

The construction phase analysis assumes \$354 million in Missouri transmission line construction spending and \$249 million in Missouri-specific manufacturing and professional services contracts for the four-state project (Kansas, Missouri, Illinois, and Indiana). Any Missouri contract spending that was already accounted for by state transmission line construction purchases was removed to avoid double-counting. Spending is expected to begin in 2018 and continue into 2020.

The operations phase analysis is divided into two periods due to up-front landowner payments that would only impact the first year of operations. After that year the annual landowner payments and transmission line operation/maintenance spending beginning in 2022 will create on-going positive impacts in the years that follow.

In the first year of operations (2021), it is assumed that landowners will receive \$14.97 million in easement payments that will increase personal income levels and spending. Easement payments are based on company-provided information to include a 150 ft. wide right-of-way, 4 lattice structures per mile, and land value of \$4,000 per acre. An increase of \$5 million for line operations/maintenance is expected to begin this year.

In subsequent years of operations, from year 2022 onward, landowner payments of \$1.23 million for transmission line structures and on-going operation/maintenance spending of \$5 million for those facilities is expected. This assumes all landowners choose annual payments however the option to take an up-front, one-time payment is available and would alter this impact estimate depending on those circumstances. Payments are expected to increase by two percent a year, roughly in line with long-term inflation estimates.

Grain Belt Express Analysis for Missouri

May 2016

The Missouri economic impact estimates for the construction and operations phases of the Grain Belt Express represent preliminary analysis of figures provided by Clean Line. Impacts represent the total statewide effect over the construction phase (Years 2018-2020), the operations impact expected in year 2021 from one-time easement payments, and annual impacts from year 2022 and beyond assuming on-going structure payments and maintenance. Impact figures in millions of dollars unless otherwise noted and in 2016 present value. Property taxes are in actual dollars with payments beginning in 2021.

Construction Phase Impact (2018-2020)	Operations Phase Impact YR 1 (2021)	Operations Phase Impact YR2+ (2022...)	Operations Phase Property Taxes (2021...)																																																																		
<p>Transmission Line Construction & 4-State Missouri Contracts</p> <p>Assumes \$354 million for Missouri transmission line construction spending and \$249 million in manufacturing and prof. services contracts for the four-state project.* Cumulative total over 3 years provided in parenthesis.</p>	<p>Initial Landowner Payments & Line Operations/Maint.</p> <p>Assumes \$14.97 million in initial landowner easement payments and subsequent increase in personal consumption spending.* An increase in operation and maintenance spending of \$5 million is due to new transmission line infrastructure.</p>	<p>Annual Structure Payments & Line Operations/Maint.</p> <p>Assumes \$1.23 million in annual structure payments to landowners and subsequent increase in personal consumption spending.* Annual increase in operation and maintenance spending of \$5 million due to new transmission line infrastructure.</p>	<p>Annual Property Tax Estimates*</p> <table border="1"> <thead> <tr> <th>County</th> <th>School Districts</th> <th>Fire Districts</th> <th>Health, Medical, & Ambulance</th> <th>Other</th> <th>TOTAL</th> </tr> </thead> <tbody> <tr> <td>Buchanan</td> <td>\$652,220</td> <td>\$36,554</td> <td>\$38,505</td> <td>\$23,290</td> <td>\$750,569</td> </tr> <tr> <td>Caldwell</td> <td>\$642,557</td> <td></td> <td>\$42,134</td> <td>\$149,228</td> <td>\$833,919</td> </tr> <tr> <td>Carroll</td> <td>\$625,599</td> <td>\$30,458</td> <td>\$58,215</td> <td>\$159,283</td> <td>\$873,555</td> </tr> <tr> <td>Chariton</td> <td>\$839,259</td> <td>\$10,155</td> <td>\$87,077</td> <td>\$211,580</td> <td>\$1,148,071</td> </tr> <tr> <td>Clinton</td> <td>\$610,376</td> <td>\$43,180</td> <td>\$56,488</td> <td>\$28,360</td> <td>\$738,404</td> </tr> <tr> <td>Monroe</td> <td>\$799,058</td> <td>\$51,885</td> <td>\$120,231</td> <td>\$145,384</td> <td>\$1,116,558</td> </tr> <tr> <td>Ralls</td> <td>\$789,966</td> <td>\$4,783</td> <td>\$105,368</td> <td>\$137,800</td> <td>\$1,037,917</td> </tr> <tr> <td>Randolph</td> <td>\$569,974</td> <td>\$12,311</td> <td>\$37,759</td> <td>\$103,825</td> <td>\$723,869</td> </tr> <tr> <td>TOTAL</td> <td>\$5,529,009</td> <td>\$189,326</td> <td>\$545,777</td> <td>\$958,750</td> <td>\$7,222,862</td> </tr> <tr> <td>% TOTAL</td> <td>77%</td> <td>3%</td> <td>8%</td> <td>13%</td> <td>100%</td> </tr> </tbody> </table>	County	School Districts	Fire Districts	Health, Medical, & Ambulance	Other	TOTAL	Buchanan	\$652,220	\$36,554	\$38,505	\$23,290	\$750,569	Caldwell	\$642,557		\$42,134	\$149,228	\$833,919	Carroll	\$625,599	\$30,458	\$58,215	\$159,283	\$873,555	Chariton	\$839,259	\$10,155	\$87,077	\$211,580	\$1,148,071	Clinton	\$610,376	\$43,180	\$56,488	\$28,360	\$738,404	Monroe	\$799,058	\$51,885	\$120,231	\$145,384	\$1,116,558	Ralls	\$789,966	\$4,783	\$105,368	\$137,800	\$1,037,917	Randolph	\$569,974	\$12,311	\$37,759	\$103,825	\$723,869	TOTAL	\$5,529,009	\$189,326	\$545,777	\$958,750	\$7,222,862	% TOTAL	77%	3%	8%	13%	100%
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<p>Average Annual Economic Impact to Missouri</p> <p>1,527 Jobs Supported per Year</p> <p>\$82.1M Personal Income per Year (\$246M/3YR. SUM)</p> <p>\$158.6M Gross Domestic Product per Year (\$476M/3YR. SUM)</p> <p>\$3.2M State General Revenue per Year (\$9.6M/3YR. SUM)</p>	<p>Year 2021 Economic Impact to Missouri</p> <p>91 Jobs Supported this Year</p> <p>\$17.9M Personal Income this Year</p> <p>\$9.1M Gross Domestic Product this Year</p> <p>\$720K State General Revenue this Year</p>	<p>Average Annual Economic Impact to Missouri</p> <p>28 Jobs Supported per Year</p> <p>\$2.6M Personal Income per Year</p> <p>\$4.2M Gross Domestic Product per Year</p> <p>\$111K State General Revenue per Year</p>	<p>*Estimates based on 205 miles of transmission line through eight counties.</p>																																																																		
<p><i>*Manufacturing contracts identified by company and net of any spending already accounted for in Missouri transmission line construction to avoid double-counting sales. Overall construction management services attributed to Missouri but assumes construction jobs will occur in state where wind farm and line infrastructure is built.</i></p>	<p><i>*Annual easement payments based on \$72,800 per mile estimates including a 150-ft. wide right-of-way easement, 4 lattice structures per mile, and average per acre fair market value of \$4,000. Changes in any of these factors, or the choice of landowners to receive a one-time, up-front structures payment, will alter this estimate.</i></p>	<p><i>*Annual structure payments based on \$6,000 per mile assuming 4 lattice structures per mile. Assumes all landowners choose annual payments however the option to choose a one-time, up-front structures payment would alter this impact estimate. Payments due to increase 2 percent per year to account for inflation.</i></p>																																																																			

**ESTIMATED TAX REVENUE
GENERATED BY PROPOSED GRAIN BELT EXPRESS CLEAN LINE**

<i>County</i>	<i>Miles of Line</i>	<i>Estimated New Taxes</i>
Buchanan	21.31	750,569
Caldwell	23.19	833,919
Carroll	24.78	873,555
Chariton	31.26	1,148,071
Clinton	20.24	738,404
Monroe	31.07	1,116,558
Ralls	32.66	1,037,917
Randolph	20.57	723,869
Total	205.08	7222862.00

BUCHANAN COUNTY		
<i>Taxing District</i>	<i>Proportional Number of Miles</i>	<i>Estimated New Tax Revenue</i>
<i>Description</i>		
Buchanan County-General Revenue	21.31	9,989
Buchanan County-Senate Bill 40	21.31	38,505
Buchanan County-Road & Bridge	21.31	13,301
S Central Buchanan Fire Prot Dist	9.04	15,866
DeKalb Fire Protection District	6.23	10,950
Gower Fire Protection District	6.04	9,738
School Districts	21.31	652,220
Buchanan County Total Taxes Levied		\$750,569

CALDWELL COUNTY

<i>Taxing District</i>	<i>Proportional Number of Miles</i>	<i>Estimated New Tax Revenue</i>
<i>Description</i>		
Caldwell County Ambulance	23.19	8,250
Caldwell County Health Department	23.19	33,884
Caldwell County-General Revenue	23.19	32,262
Caldwell County Library	23.19	17,369
Davis Township of Caldwell Co	5.71	21,683
Grant Township of Caldwell County	5.88	24,967
Lincoln Township of Caldwell Co	5.89	26,086
Rockford Township of Caldwell Co	5.71	26,861
School Districts	23.19	642,557
Caldwell County Total Taxes Levied		\$833,919

CARROLL COUNTY		
<i>Taxing District</i>	<i>Proportional Number of Miles</i>	<i>Estimated New Tax Revenue</i>
<i>Description</i>	<i>of Miles</i>	<i>Revenue</i>
Carroll County Ambulance District	24.78	41,991
Carroll County Health Department	24.78	14,693
Carroll County-General Revenue	24.78	38,496
Carroll County-Senate Bill 40	24.78	1,531
Carroll County-Johnson Grass	24.78	14,693
North Central Carroll Fire Prot Dis	11.54	16,256
Carroll County Fire Protection Dist	7.46	11,543
Stet Fire Protection District	2.89	2,659
Hill Township of Carroll Co	4.49	20,046
Leslie Township of Carroll Co	1.36	6,473
Ridge Township of Carroll Co	5.73	26,590
Rockford Township of Carroll Co	1.67	7,157
Van Horn Township of Carroll Co	5.76	22,599
Washington Township of Carroll Co	5.77	23,229
School Districts	24.78	625,599
Carroll County Total Taxes Levied		\$873,555

CHARITON COUNTY

<i>Taxing District Description</i>	<i>Proportional Number of Miles</i>	<i>Estimated New Tax Revenue</i>
Chariton County Ambulance District	31.26	50,201
Chariton County Health Center	31.26	19,316
Chariton County-General Revenue	31.26	61,459
Chariton County-Senate Bill 40	31.26	17,560
Chariton County-Township	31.26	19,316
Keytesville Fire Protection District	8.71	10,155
Brunswick Township of Chariton Co	5.84	25,883
Keytesville Township of Chariton Co	8.81	37,248
Salisbury Township of Chariton Co	8.59	30,817
Triplett Township of Chariton Co	8.02	36,857
School Districts	31.26	839,259
Chariton County Total Taxes Levied		\$1,148,071

CLINTON COUNTY		
<i>Taxing District</i>	<i>Proportional Number of Miles</i>	<i>Estimated New Tax Revenue</i>
<i>Description</i>		
Clinton County Health Department	20.24	11,496
Clinton County-General Revenue	20.24	28,360
Clinton County-Senate Bill 40	20.24	11,496
Cameron Ambulance District	1.14	1,764
Tri-County Ambulance District	18.83	31,732
Gower Fire Protection District	3.74	6,030
Lathrop Fire Protection District	8.68	20,067
Plattsburg Fire Protection District	7.82	17,083
School Districts	20.24	610,376
Clinton County Total Taxes Levied		\$738,404

MONROE COUNTY

<i>Taxing District</i>	<i>Proportional Number of Miles</i>	<i>Estimated New Tax Revenue</i>
<i>Description</i>		
Monroe County Health Department	31.07	19,392
Monroe County-General Revenue	31.07	55,268
Monroe County-Senate Bill 40	31.07	19,392
Monroe County-Road & Bridge	31.07	57,847
Monroe County Ambulance District	31.07	81,447
Monroe County Library	31.07	32,269
Paris Rural Fire Protection Dist	20.12	31,395
Madison-West Monroe Fire Prot Dist	10.95	20,490
School Districts	31.07	799,058
Monroe County Total Taxes Levied		\$1,116,558

RALLS COUNTY		
<i>Taxing District</i>	<i>Proportional Number of Miles</i>	<i>Estimated New Tax Revenue</i>
<i>Description</i>		
Ralls County Health Department	32.66	20,242
Ralls County-General Revenue	32.66	60,175
Ralls County-Road & Bridge	32.66	57,016
Ralls County Ambulance District #3	32.66	85,126
Ralls County Public Library	32.66	20,609
Hannibal Rural Fire Protection Dist	5.22	4,783
School Districts	32.66	789,966
Ralls County Total Taxes Levied		\$1,037,917

RANDOLPH COUNTY		
<i>Taxing District</i>	<i>Proportional Number of Miles</i>	<i>Estimated New Tax Revenue</i>
<i>Description</i>	<i>of Miles</i>	<i>Revenue</i>
Randolph County Library	20.57	31,596
Randolph County Health Department	20.57	18,950
Randolph County-General Revenue	20.57	28,605
Randolph County-Road & Bridge	20.57	25,331
Randolph County-Sheltered Workshop	20.57	18,809
Higbee Fire Protection District	4.83	7,576
Southeastern Fire Protection Dist	2.70	4,735
Moberly Area Jr. College	8.93	18,293
School Districts	20.57	569,974
Randolph County Total Taxes Levied		\$723,869

Clinton East Buchanan Co. C-1 School District
Clinton Kearney R-I School District
Clinton Smithville R-II School District
Clinton Osborn R-O School District
Clinton Stewartsville C-2 School District
Clinton Lawson R-XIV School District
Clinton Cameron R-I School District
Clinton Lathrop R-II School District
Clinton Clinton County R-III School District

Monroe Mexico 59 School District
Monroe Centralia R-VI School District
Monroe Ralls Co R-II School District
Monroe Moberly School District
Monroe Shelby Co R-IV School District
Monroe Middle Grove C-1 School District
Monroe Monroe City R-I School District
Monroe Holliday C-2 School District
Monroe Madison C-3 School District
Monroe Paris R-II School District

Ralls Community R-VI School District
Ralls Van-Far R-I School District
Ralls Hannibal 60 School District
Ralls Monroe City R-I School District
Ralls Bowling Green R-I School District
Ralls Ralls Co R-II School District

Randolph Sturgeon R-V School District
Randolph Salisbury R-IV School District
Randolph Macon Co R-I School District
Randolph Northeast Randolph Co R-IV School District
Randolph Renick R-V School District
Randolph Higbee R-VIII School District
Randolph Westran R-I School District
Randolph Moberly School District