



Community Resiliency

Rural America needs help. Plant closures and job loss have stressed local communities. What remains is high unemployment, underutilized manufacturing zones, and excess wood feedstock.

The locations highlighted in this Site Qualification Guide are an ideal fit for a SynSel Biorefinery. These projects have the necessary support by local and state oficials. There is a qualified and available workforce. Plus, there is an abundance of wood feedstock required for SynSel Plants to produce drop-in fuels.

One Biorefinery at a time, SynSel does its part to rebuild rural America and strengthen community resiliency.

Responsible Investing

Today's Socially Responsible Investor has a lot to consider when making investment decisions. What is the technology and its environmental impact? What's the source of feedstock? What's the carbon footprint of production and transportation? Where is the product produced and by whom? Not to mention, what is the return?

SynSel Biorefineries use a breakthrough catalytic process to produce drop-in fuels that reduces greenhouse gas emissions by over 65% compared to fossil fuel-based equivalents. Locally grown wood is used for the "American-made" fuel. The drop-in fuel price is market-driven, while wind and solar sell electricity back to the grid at a price set by the utility company.



Grand Rapids, Minnesota

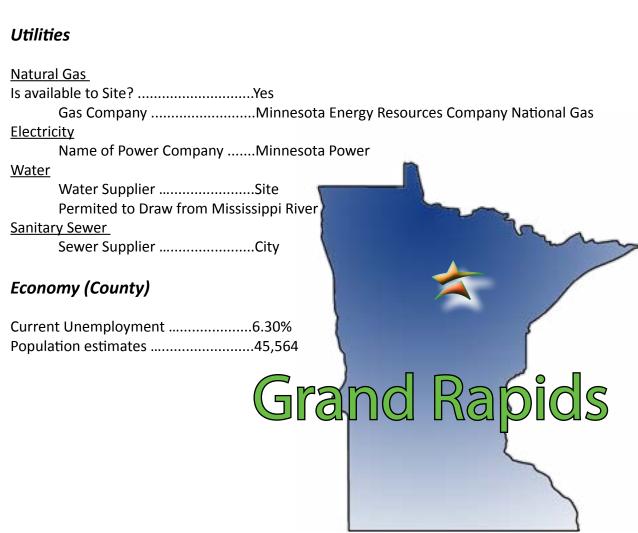
Site Specifications

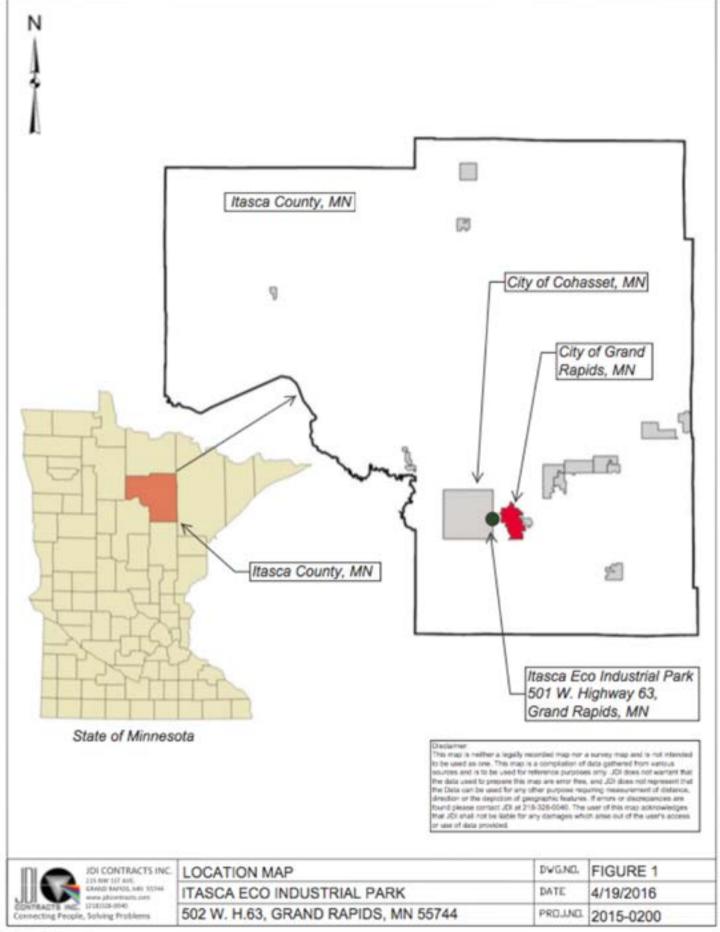
Industrial Site Information

City	Grand Rapids	
County	ltasca	
Elevation	1286 ft	
Site Acreage	138.09 +	
Zoning Classification	Industrial, Commercial	

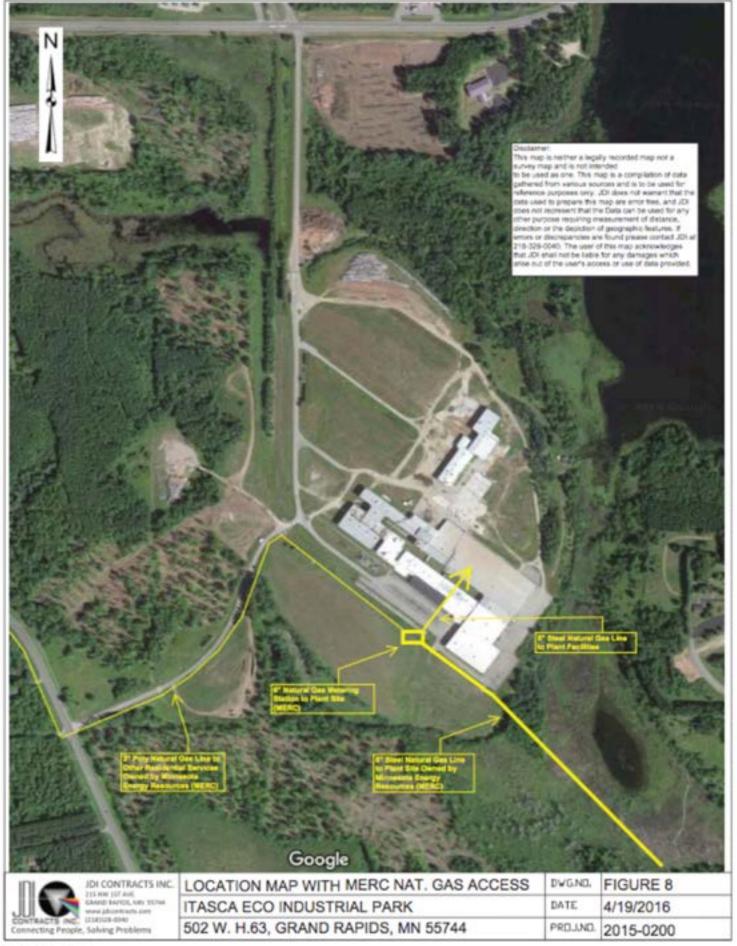
Transportation

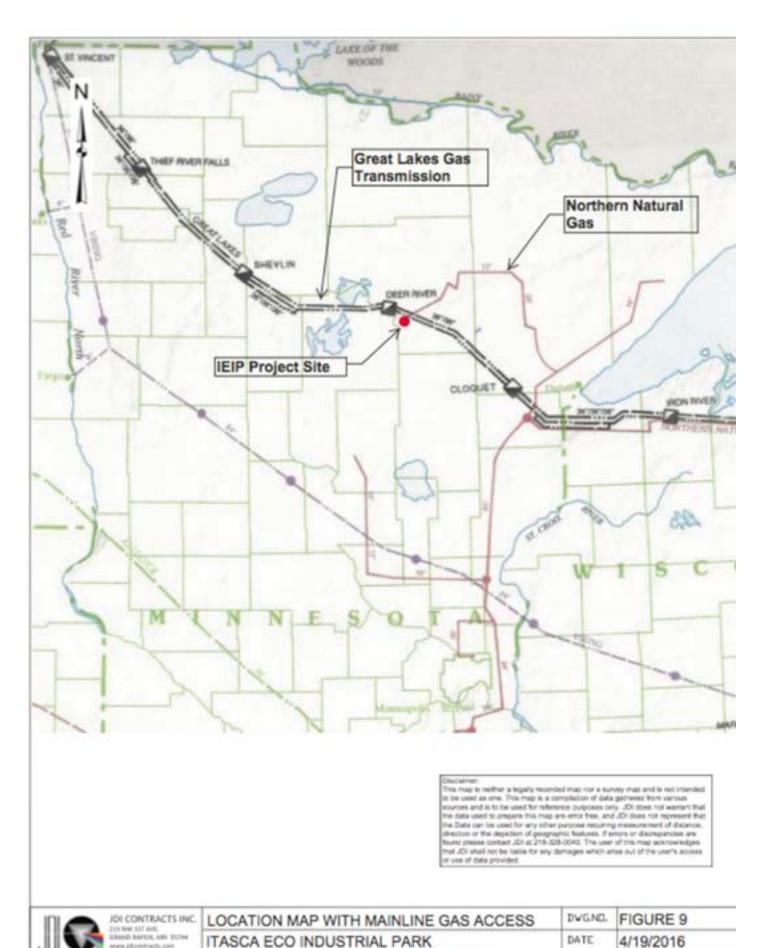
Adjacent Roadway	State Hwy 38
Adjacent Roadway	US Hwy 2
Nearest Airport	Grand Rapids Municipal
Distance	4 Miles
Nearest International Airport	Duluth, MN
Distance	75 Miles
Nearest Deep-Water Port	Duluth, MN
Distance	75 Miles
Nearest railroad	Canadian Northern and Regional
Distance	On-Site





Property of JDI Contracts



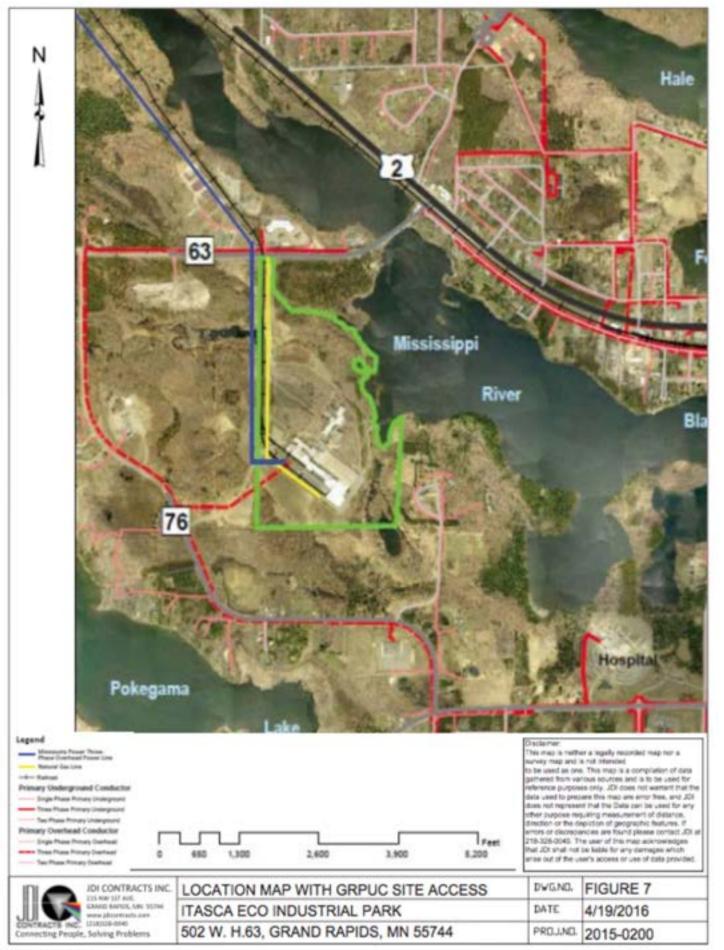


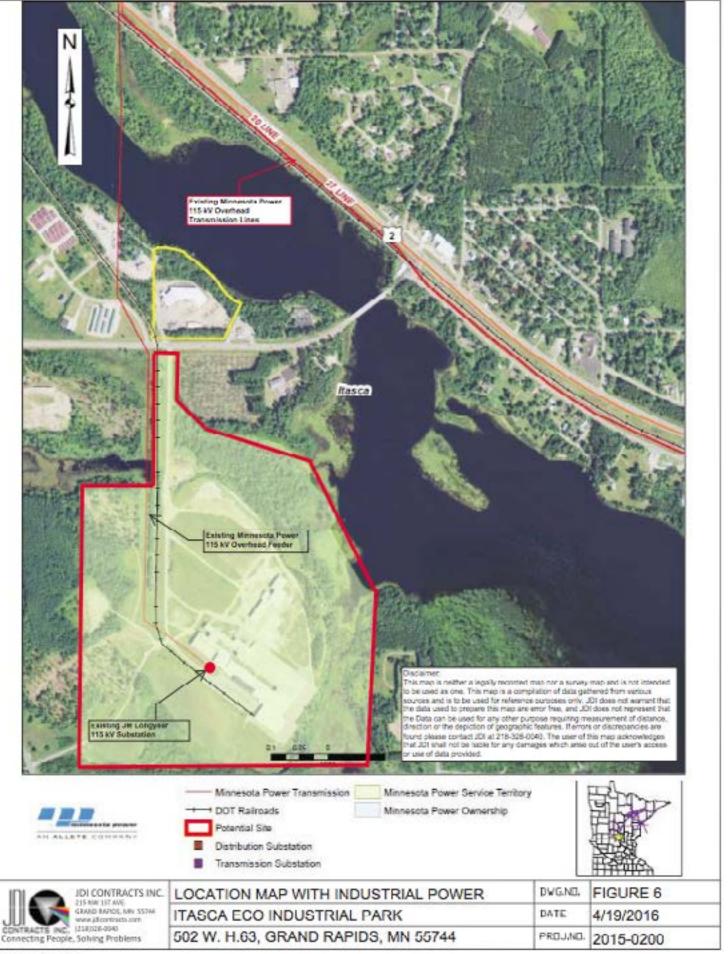
502 W. H.63, GRAND RAPIDS, MN 55744

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Property of 200 Contracts

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Freight Railroads in Minnesota

Rail Fast Facts For 2012

Operations	Number of freight railroads	18
	Freight railroad mileage	4,450
Employment	Number of freight rail employees	4,566
and Earnings	Average wages & benefits per freight rail employee	\$113,270
Railroad	Number of railroad retirement beneficiaries	14,518
Retirement	Railroad retirement benefits paid	\$298 million
Economic Impact	Nationwide, each freight rail job supports 4.5 jobs elsewhere in the econor billion in new rail investment supports more than 17,000 jobs.	my. Each \$1
Fuel Efficiency	In 2013, America's railroads moved a ton of freight an average of 473 mile gallon of fuel. That's like going from Minneapolis to Springfield, IL. On av	

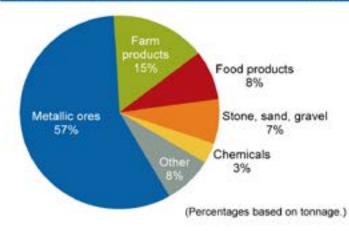
truck reduces greenhouse gas emissions by 75 percent.

Cutting Highway Gridlock

One train can carry as much freight as several hundred trucks. It would have taken approximately 13.8 million additional trucks to handle the 248.4 million tons of freight that originated in, terminated in, or moved through Minnesota by rail in 2012.

railroads are four times more fuel efficient than trucks. Moving freight by rail instead of

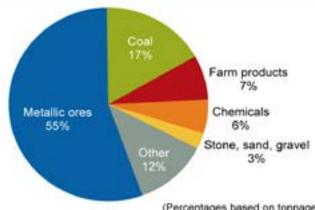
Rail Traffic Originated in 2012 Total Tons: 90.3 million Total Carloads: 1,171,300



Commodity	Tons	Carloads	
Metallic ores	51,868,000	631,800	
Farm products	13,947,000	141,800	
Food products	7,475,000	85,000	
Stone, sand, gravel	6,728,000	74,900	
Chemicals	3,095,000	32,900	
Other	7,225,000	204,800	

Minnesota's Mesabi Range is one of the world's largest iron ore mining regions; in 2012, Minnesota accounted for 74 percent of originated rail tons of iron ore. Farm products was mostly corn, with some soybeans and wheat.

Rail Traffic Terminated in 2012 Total Tons: 70.3 million Total Carloads: 967,500



Commodity	Tons	Carloads	
Metallic ores	38,863,000	509,200	
Coal	11,942,000	101,600	
Farm products	5,226,000	48,700	
Chemicals	3,976,000	41,600	
Stone, sand, gravel	1,857,000	25,900	
Other	8,391,000	240,400	

In 2012, 44 percent of the electricity generated in Minnesota was coal-fired; most of the coal used by power plants in Minnesota was delivered by railroads.

(Percentages based on tonnage.)



Freight Railroads in Minnesota

,	Miles Operated In
N	linnesota in 2012
Class I Railroads	
BNSF Railway Company	1,671
Grand Trunk Corporation (CN)	380
Soo Line Railroad Co. (CP)	1,724
Union Pacific Railroad Co.	646
	4,421
Canadian Railroads*	
Canadian National	44
	44
Regional Railroads	
Red River Valley & Western Railroad	Co. 32
	32
Switching & Terminal Railroads	
Cloquet Terminal Railroad Company,	Inc. 4
Minnesota Commercial Railway	137
Northern Lines Railway	28
	169

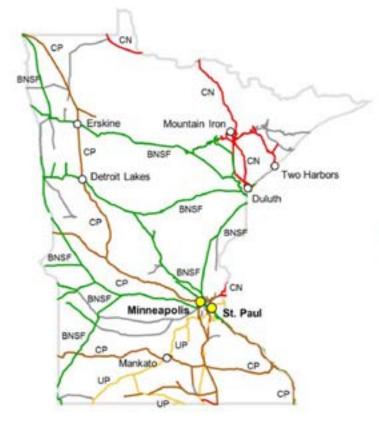
Minnesota		Miles O	Miles Operated	
2012 Totals		Excluding Trackage Rights		
Class I	4	3,625	4,421	
Canadian*	1	44	44	
Regional	1	3	32	
Local	9	651	795	
Switching & Terminal	3	127	169	
Total	18	4,450	5,461	

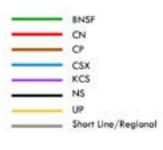
*Canadian-owned lines not affiliated with a U.S. rail subsidiary.

Miles Operated In Minnesota in 2012

218

Local Railroads Minnesota Northern Railroad, Inc. Minnesota Prairie Line 94 Minnesota Southern Railway, Inc. 42 Minnesota, Dakota & Western Railway Northern Plains Railroad, Inc. 49 72 Otter Tail Valley Railroad Progressive Rail, Inc. 97 St. Croix Valley Railroad Co. 35





Twin Cities & Western Railroad Co.

Map shows rail line ownership based on 2011 National Transportation Atlas Database published by the U.S. DOT's Bureau of Transportation Statistics

Class I Railroad: A railroad with 2012 operating revenues of at least \$452.7 million. Regional Railroad: A non-Class I line-haul railroad that has annual revenues of at least \$40 million, or that operates at least 350 miles of road and revenues of at least \$20 million. Local Railroad: A railroad which is neither a Class I nor a Regional Railroad, and which is engaged primarily in line-haul service. Switching & Terminal Railroad: A non-Class I railroad engaged primarily in switching and/or terminal services for other railroads. Railroads operating are as of December 31, 2012. Some mileages may be estimated.

