ELECTRIC QUESTIONNAIRE

MI Sites Program – 2024

Confidential

OVERVIEW AND MINIMUM REQUIREMENTS

Michigan Economic Development Corporation (MEDC) has created the MI Sites program to address the real estate needs of companies seeking to locate or expand operations in Michigan. MEDC is working with Quest Site Solutions (Quest) to evaluate current and future industrial sites.

Utility capacity and reliability is critical for industrial development. Although requirements vary considerably between projects, the criteria in the table below are the minimums requirements for this program. Since project utility needs have increased substantially in recent years, being able to demonstrate significantly higher utility capacities is advantageous for competing on projects.

Available Acreage	Capacity and Timeframe*
25-99	2.5 MW within 9 months
100-249	5 MW within 12 months
250-499	10 MW within 18 months *(must provide 2.5 MW within 12 months)*
500-999	20 MW within 18 months *(must provide 5 MW within 12 months)*
1,000+	For properties of 1,000+ acres, contact MEDC directly for guidance on potential for development as a Mega Site.

** Note: The timeframes assume that materials are available and normal weather conditions.*

The information in this questionnaire is being collected to understand the potential utility service for a property, including costs and timelines, and is not for a specific project.

PROPERTY INFORMATION

	Answer
Property Name	Great Lakes Tech Park
Municipality, County, State, Zip	Thomas Township, Saginaw County, Michigan
Available Acreage	~115

ELECTRIC QUESTIONS

A. Provide information regarding the **current service** for the property.

	Answer	
Name of electric transmission company(ies)	METC (Michigan Electric Transmission Company)	
Name of electric distribution company(ies)	Consumers Energy	
Distribution provider contact information	Name	Lisa Pung
	Title	Senior Economic Development Manager
	Phone	517-582-4568
	Email	Lisa.pung@cmsenergy.com

QUEST SITE SOLUTIONS

Is customer choice available? (yes/no)	It's permitted and limited to 10% of previous year's sales. It is currently not available as there are currently 3,090 customers in the queue. Link: https://www.consumersenergy.com/business/rates/electric-rates-and-programs/how-electric-rates-are-set/electric-customer-choice
Voltage of nearest distribution line(s)	4.8/8.32 kV Wye Grounded
Location, including distance from the property, of nearest distribution line(s)	Primary three phase distribution facilities located on the site. Distribution facilities located on the west side of North Graham Rd. 46 kV high voltage lines are located 0.3 miles northeast of the site, running east on the northeast corner of the intersection of N Graham Rd & Geddes Rd.
Voltage of nearest transmission line(s)	138 kV
Location, including distance from the property, of nearest transmission line(s)	138 kV transmission lines are located approximately 3.0 miles east and south of the site.
Available electric capacity at the property (MW)	Distribution facilities in the area can serve up to 2.2 MW in 3-6 months depending on location of service.
Name of substation serving the property	Thomas Substation
Location, including distance from the property, of substation serving property	Approximately 2 miles
Is electric redundancy currently available at the property? If yes, describe in detail.	No, Consumers Energy can potentially provide full redundancy options to the site. Redundancy is defined as allowing for any one piece of equipment to be taken out of service while still being able to serve a customer's total load.

B. If line extensions or upgrades are necessary to meet the minimum capacity requirement (see table on page 1 with capacity requirements by property size), complete this section.

	Answer
Describe in detail any necessary line extensions or upgrades to provide the required capacity for electric service.	One regulator for 2.2 MW To meet 5 MW of capacity, one 46 kV feeds will be brought to the customer dedicated substation at a distance of 0.3 miles of new ROW. A new, dedicated customer substation will be built on-site

	and configured and sized to meet customer requirements.	
Indicate the estimated costs for line extensions or upgrades to provide the required capacity for electric service.	$80,000 for 2.2 MW on low voltage distribution $3.2 Million for 5 MW on high voltage distribution	
Does the utility provider have any programs available to help offset customer costs for upgrades?	Yes, we have a robust construction incentive allowance that is based on customer's rate, electric demand, usage, and contract length.	
Indicate the estimated schedule (months) for each step in the process to provide the required electric service to the property.	Design	14
	Permitting	7
	Acquisition of Rights-of-way	7
	Construction	10
	Other	24, transformer lead times
Can any of the steps in the upgrade process be conducted concurrently? If yes, indicate which can be concurrent.	Possibly, subject to resource availability.	
Indicate the total estimated timeframe to provide the required electric service.	3-6 months for 2.2 MW. 28-36 months for 5 MW	
Indicate the current lead time for materials for any necessary upgrades.	Transformer lead times are up to 100 weeks.	
Describe any necessary rights-of-way that would need to be acquired to provide the required service to the property.	For 5 MW, 0.3 miles of new right-of-way easements would need to be acquired.	
Are the costs associated with rights-of-way acquisition included in the estimated costs to provide service to the property?	Yes, estimated costs for new right-of-way is included in the overall project costs.	
Is electric redundancy feasible at the property? If yes, describe in detail the improvements that would be required to provide electric redundancy, including estimated cost and schedule.	Yes, redundancy is potentially feasible at this site at an increased lead time and cost.	

C. Provide information on how additional capacity (greater than what is detailed above) could be provided to the property. **Please fill in <u>at least two scenarios below</u> since being able to demonstrate higher utility capacities is advantageous for competing on projects.**

Capacity		Answer
10 MW	Needed Improvements	To meet 10 MW of capacity, one 46 kV feed will be brought to the customer dedicated substation at a distance of 0.3 miles of new ROW. A new, dedicated customer substation will be built on-site and configured and sized to meet customer requirements.
	Cost Estimate	$3.2 Million
	Schedule Estimate	28-36 Months

25 MW	Needed Improvements	To meet 25 MW of capacity without redundancy, one 138 kV feed will be brought to the customer dedicated substation at a distance of 3.0 miles of new ROW. A new, dedicated customer substation will be built on-site and configured and sized to meet customer requirements. Redundancy may be available or required based on customer load.
	Cost Estimate	Non-Redundant: $10.9 Million Redundant: $14 Million
	Schedule Estimate	42 Months
50 MW	Needed Improvements	To meet 50 MW of capacity, two 138 kV feeds will be brought to the customer dedicated substation at a distance of 3.0 miles of new ROW. A new, dedicated customer substation will be built on-site and configured and sized to meet customer requirements. Solution would be proposed as fully redundant.
	Cost Estimate	$27 Million
	Schedule Estimate	42 Months
100 MW	Needed Improvements	To meet 100 MW of capacity, two 138 kV feeds will be brought to the customer dedicated substation at a distance of 3.0 miles of new ROW. A new, dedicated customer substation will be built on-site and configured and sized to meet customer requirements. Solution would be proposed as fully redundant.
	Cost Estimate	$28.5 Million
	Schedule Estimate	42-66 Months

D. Indicate the maximum available capacity that could be provided within 60 months.

Answer
Load levels above 100MW will require a more detailed analysis by the transmission provider. This would require further analysis based on energy needs and material availability.

E. Provide any additional information pertaining to electric service that we should be aware of during evaluation of this property.

Answer

All figures and lead times are estimates and may vary based on equipment lead times and easement acquisition at the time of the project and official review by the transmission provider if needed. Actual costs and timing will be determined during development of the contract for facilities and contingent upon a company's successful credit review. Consumers Energy will require that the customer provide easements for all lines and facilities located on the customer's property.

This information is valid as of 6/14/2024, typically valid for a period of one year, and may be subject to change.

F. Provide an electric infrastructure map with property boundaries identified indicating the location and voltage of the electric infrastructure to serve the property.

Guidelines for infrastructure map:

1) *Map should show existing utility infrastructure with solid lines and any proposed extensions as dashed lines.*
2) *Map must have a title, scale, directional arrow, legend, and date.*
3) *Property boundaries must be clearly identified on the map.*

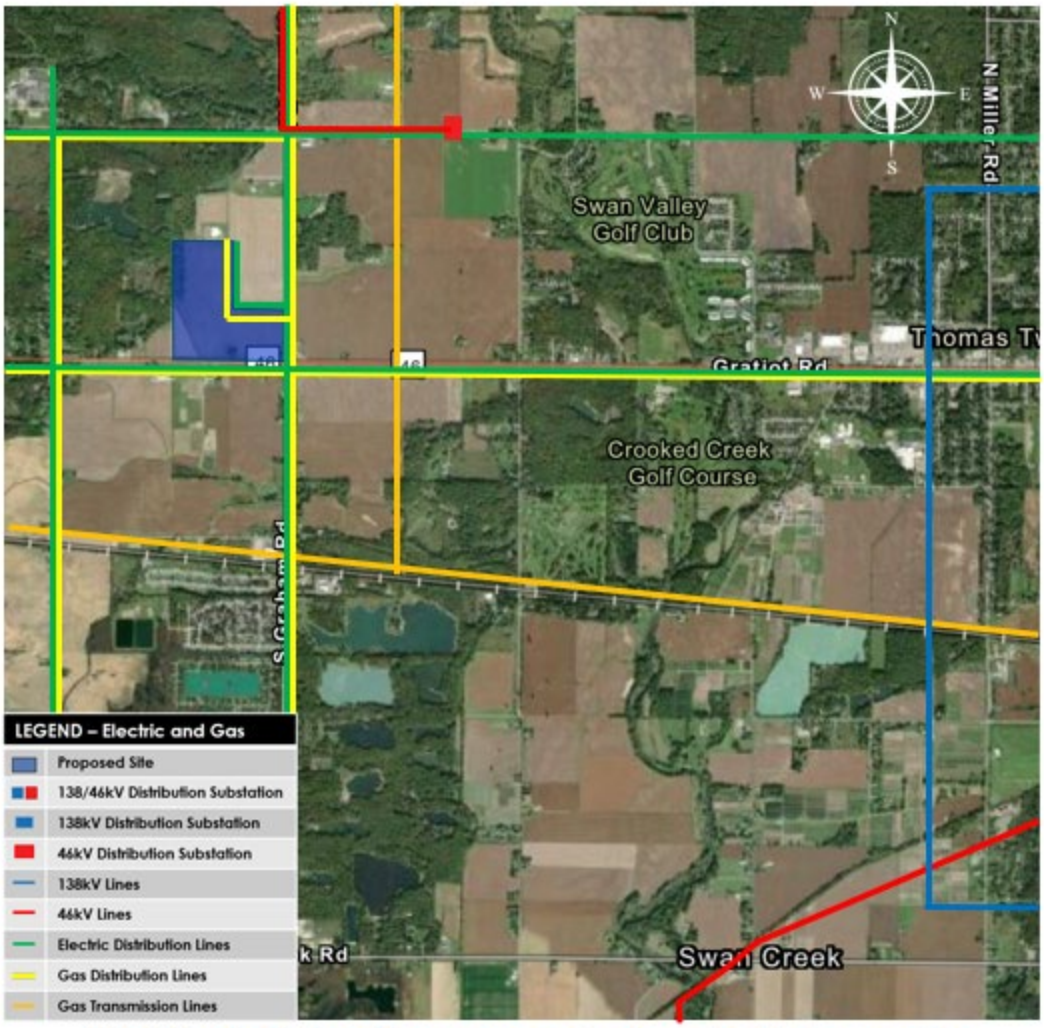
G. Please complete the signature section below – including inserting the utility provider name, the property name, and all details in the signature block.

SIGNATURE OF UTILITY PROVIDER

By providing this information, I am confirming that Consumers Energy would be willing and able to serve the Great Lakes Tech Park site with electric service based on the information provided above.

	Answer
Signature	*Lisa Pung*
Name	Lisa Pung
Title	Senior Economic Development Manager
Company	Consumers Energy
Date	6/14/2024

Existing Energy Infrastructure



All existing facility locations are approximate and not to be used for construction purposes. Always contact MISS DIG at 811 before you dig.

Consumers Energy Count on Us