

Proposed Distribution Facility Project
7211 and 7219 Morgan Road
Town of Clay, Onondaga County, New York

Exhibit H

Energy Conservation Assessment

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This Energy Conservation Assessment describes the potential impacts of the project on energy use. An estimate of the natural gas and electricity demand of the project is provided. There is also information on how natural gas and electricity will be provided to the site, and an overview of the energy conservation measures that will be implemented at the project site is included.

Energy Use

Natural gas and electric service to the site is provided by National Grid since the project is located within the company's service franchise area. According to correspondence from National Grid dated June 27, 2019, the company has agreed to provide electric and gas service to the project site subject to addressing National Grid requirements.

The primary energy source for heating will be natural gas, which will also be used to operate ventilation and HVAC systems. Electricity will be used to provide lighting and energy for warehouse and accessory office operations.

Heating and Cooling

Rooftop HVAC units are proposed to provide heating and cooling for the warehouse and office spaces. Natural gas would be used to provide heating, while electricity would be used to provide cooling. It is projected that the entire warehouse will require heating and cooling with the mechanical, electrical, and equipment rooms requiring heating only. Heating and insulation will prevent freezing temperatures within the building, while cooling during the summer months will be provided with adequate ventilation. The warehouse would experience only minor temperature changes. Materials stored in the warehouse at moderate temperatures would not be damaged or spoiled.

Electric and Natural Gas Usage

There are no upgrades required to natural gas and electric facilities beyond extending service to the site. The electric and natural gas service lines located under Morgan Road have adequate capacity to meet the needs of the project without other facility upgrades by National Grid.

All of the mechanical equipment within the building is being designed to energy code standards, with high-efficiency motors, transformers, etc. All of the light fixtures within the building are LED type. The lowest level utilizes conveyor-type material handling equipment and the upper four levels are used for storage with battery powered drive units. There is no anticipation of any more of a per-square-foot power demand than is typical for other warehouse-type facilities.

The project will therefore not create a potential significant adverse environmental impact regarding natural gas and electric facilities.

Energy Conservation Measures

Energy use projects are based on the maximum use permitted by the New York State Energy Code (the "Code"). It is anticipated that construction of the warehouse / distribution building will provide a more energy efficient facility than that required by the Code.

It is expected that the lighting power budget will be less than that permitted by the Code, which is expected to reduce electric energy consumption.

Several measures would be taken to conserve energy for the operation of mechanical and electrical systems, including the following:

1. Motion sensors will be located in appropriate locations to avoid lighting areas that are not in use.
2. Mechanical equipment efficiency for energy conservation will be maximized to the extent possible.
3. Temperature set points would be reviewed based on specific needs, including and not limited to storage types, comfort of personnel, etc., to maximize energy conservation potential.

All building construction proposed at the project site shall comply with the New York State Energy Conservation Construction Code, contained in Title 19 of the New York Codes, Rules and Regulations ("NYCRR"), Part 1240, and in the publications incorporated by reference in 19 NYCRR Part 1240. Standards apply to the use of energy-efficient building materials (e.g., insulation, windows, weather stripping, door seals, etc.) and mechanical systems (e.g., air conditioners, heating systems, HVAC systems, water heaters, heat pumps, etc.), which minimize the amount of energy required. The New York State Environmental Conservation Law also requires that water saving plumbing fixtures be installed that meet water conservation flow standards. The purpose of installing this equipment is to conserve energy resources required to heat the water and minimize unnecessary water loss.

Based on the nature of the future use of the project site and the energy conservation measures to be implemented, there will be no potential significant adverse impact on energy resources and/or use.