

VIII. EFFECTS ON THE USE AND CONSERVATION OF ENERGY RESOURCES

Energy consumption will occur during the construction and operation of the Proposed Action. During the construction phase, energy will be used to power equipment and various construction vehicles. Once construction is completed, the Proposed Action would require energy for heating, air conditioning, and electricity. The proposed improvements will meet or exceed the standards for the New York State Energy Conservation Construction Code which requires the use of energy efficient products in all new and renovated construction.

A. The Energy Sources to be Used if the Proposed Action is Implemented

Energy for heating, air conditioning, and electricity will be provided to the site from Central Hudson.

B. Increased Energy Consumption

The development of the site will result in an increase in consumption of energy for the following reasons:

- Heating and cooling of the proposed warehouse and associated offices;
- Energy consuming equipment including computers and telecommunications equipment; and
- Interior and exterior lighting.

C. Energy Conservation Measures

The following measures will be taken regarding building design to ensure energy efficiency:

- The roof will be insulated with rigid closed cell isocyanurate boards;
- All entrance doors and overhead sectional doors will be insulated with polystyrene and weather stripping;
- Windows will be composed of 1 inch insulated glass and thermally-broken frames. All exterior glass will be bronze tinted or clear with bronze or clear anodized frames;
- Offices will be heated and cooled with gas/electric roof top units;
- The warehouse will be heated with Cambridge style direct fired make-up air units heating units; and
- A Novar energy management system will be connected to the HVAC equipment.

D. Leadership in Energy and Environmental Design Standards (LEEDS)

LEED is a nationally accepted benchmark for the design, construction, and operation of high performance green buildings. LEED provides building owners and operators with

tools to have a measurable impact on buildings performance. LEED can be applied to every building type and phase of a building lifecycle; however, no specific LEED programs presently exist for industrial development. Refer to subsection "C" above for measures the project sponsor will utilize to help reduce energy consumption on the site.