

**ENERGY CONSERVATION and  
CONSUMPTION**  
**Chapter Twenty One**

---

---

# ENERGY CONSERVATION and CONSUMPTION

## Chapter Twenty One

---

---

### **Introduction:**

The proposed Crossroads 312 project, shown as part of this FEIS, is a reduction in size from the one described in the DEIS. The site plans also show a hotel as a part of the principal uses proposed for the project. The proposed energy usage for the project is expected to be less than that described in the DEIS due to these changes. In addition, the project will use energy saving fixtures and appliances to meet NYS standards and to reduce operating costs. The project will use windows and framing systems that reduce heating and cooling loss as well as provide UV protection. Wherever possible, vestibules will be used to reduce heat loss during the winter. HVAC systems for heating and cooling will be energy efficient and meet all NYS and industry standards for energy use. LED lights are proposed in the parking areas. A list of energy saving technologies proposed to be used at this project is provided in the response to Energy-2 below.

### **Comment Energy-1**

#### ***Effects on the Use and Conservation of Energy Resources***

*The DEIS prevents only a very limited discussion (Chapter 12) of this important environmental issue. No specific commitment to the use of new technologies to reduce energy consumption has been offered. A description of the effect of the proposed action on the short and long term use and conservation of energy resources should be provided including ways to reduce inefficient or unnecessary consumption during construction and long term operation. The discussion should include applicable building codes and consideration of Leadership in Energy and Environmental Design (LEED) Green Building Rating System certification criteria in developing building plans for this project. At a minimum, the installation of low flow plumbing devices and high efficiency lights throughout the development should be considered. Measures should be identified to minimize vehicle traffic trips within and from/to the site. (NYSDEC 11/22/2013)*

### **Response:**

The site development is required to include green technology per the stormwater regulations. The details of the technology have not been determined, though it will likely include a green roof system. The building will likely meet the standards of LEED Silver, but the developer is not proposing to seek certification. LED site lighting is proposed for the entire site. Low water use toilets will be incorporated. Parking spaces for car pools and vans will be identified.

## Comment Energy-2

*DEC has recently issued a “Guide for Assessing Energy Use and Greenhouse Gas Emissions in Environmental Impact Statement” (<http://www.dec.ny.gov/regulations56552.html>). Applicable sections of this document should be considered and discussed relative to the project design. The Appendix contains a list of proposed measures that should be considered individual, and as a group, for incorporation into project design. (NYSDEC 11/22/2013)*

### Response:

The DEC guidance document has been consulted and the following measures will be incorporated to mitigate energy use impacts:

- Installation of energy efficient, high performance HVAC equipment
- Possible green roof technology
- Incorporate super insulation
- Incorporate motion sensors and lighting and climate control equipment
- Use efficient, directed exterior lighting
- Use water conserving fixtures
- Re-use grey water
- Provide for storage of recyclables
- Use building materials with recycled content
- Track energy performances
- Use energy efficient boilers
- Conserve and restore areas on site
- Provide access to public transportation
- Size parking to meet but not exceed local codes
- Roadway improvements to improve traffic flow
- Traffic coordination and signalization to improve traffic flow