

10 EFFECTS ON THE USE AND CONSERVATION OF ENERGY

10.1 Anticipated Short-Term and Long-Term Levels of Consumption

The proposed Project will involve the successful implementation of the proposed engineering design. As such, energy consumption in the form of fuel use will be required for baseliner preparation and construction of the expanded landfill areas. However, on an annual basis, no significant increase in fuel use or energy consumption is anticipated to occur as a result of the Project. Although similar equipment used to carry out the construction, operations and maintenance activities at the Landfill Expansion, an increase of approximately 14 years in the duration of operational energy (i.e., fuel and electricity) consumption will occur. However, this continued fuel consumption is likely less than would occur if the Project were not developed and waste haulers were required to travel longer distances to remaining available solid waste disposal sites.

There will be no increase in the waste acceptance rate at the Landfill Expansion. Therefore, there will be no increase in the amount of vehicles traveling to and from the facility and additional operation of landfill equipment at the working face to deposit, compact and cover the waste.

10.2 Indirect Effects on Energy Consumption

No significant increase in energy consumption is anticipated to result from the development of the Landfill Expansion:

- There is a potential for an increase or decrease in fuel consumption which is waste source dependent.
- There will be no preprocessing of solid waste (i.e., there will be no baling, shredding, or other methods of waste handling) that would require the use of any energy-intensive equipment.
- Recovery of landfill gas for the purpose of generating electrical energy. The Landfill Expansion will supply LFG to the landfill gas-to-energy facility

operated by Seneca Energy, which will produce saleable energy, and create economic development opportunities.



10.3 Energy Conservation Measures

While the operational methods proposed for the Landfill Expansion are not designed for the specific purpose of energy conservation, there are some indirect benefits that will contribute to energy conservation:

- There will be continued operation of a facility whose location minimizes travel distances within the region;
- There will be the continued acceptance of transfer waste, allowing regional consolidation of wastes prior to delivery to the landfill site;
- The continued location of a facility which is convenient to major population centers;
- Specified, limited hours of operation; and
- Increased, long-term availability of LFG from gas for the production of electricity will offset the need to consume non-renewable fossil fuel for electricity production.



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