

4. EFFECTS ON THE USE AND CONSERVATION OF ENERGY

Implementation of the project will use existing energy resources during both construction and operational phases. The implications of the use of energy, as well as potential conservation opportunities are summarized in this section.

4.1. PROPOSED ENERGY SOURCES AND ALTERNATIVES

Construction-related activities will require the use of electricity, as well as fuels to power equipment and vehicles. Construction vehicles are typically powered by diesel fuel; however, potential alternatives include natural gas (CNG and LNG), biodiesel, or LPG (propane).

During daily operations, the IHC, MOB, parking garage and other project elements will be serviced by existing electrical transmission lines and natural gas mains provided by National Grid. The existing utilities are anticipated to support the additional electric and natural gas usage associated with the IHC (including termination of service to existing facilities to be demolished). No significant adverse impacts on existing energy resources are anticipated (see Section 3.9).

4.2. ANTICIPATED SHORT-TERM/LONG-TERM LEVELS OF ENERGY CONSUMPTION

4.2.1 Short-term Energy Consumption

Construction activities will consume gas, diesel and electricity to power equipment and vehicles. Consumption activities are expected to continue throughout the construction phase, but are not expected to significantly impact existing reserves.

4.2.2 Long-term Energy Consumption

The proposed project will use electricity and natural gas. Although energy expenditures are anticipated to be offset by the termination of energy consumption from existing facilities and land uses to be demolished, overall power proposed consumption rates are expected to be within the capacities of National Grid's existing infrastructure.

4.3. INDIRECT EFFECTS ON ENERGY CONSUMPTION

The project will result in the following indirect effects on energy consumption, which are not expected to significantly impact existing reserves:

- Use of gasoline, diesel and alternative fuels in motor vehicles, both construction- and operations-related, traveling to and from the project site.

4.4. ENERGY CONSERVATION MEASURES

Contractor(s) will be offered the opportunity during construction-phase activities to select and implement a variety of energy conservation measures including:

- Implementation of a maintenance and protection traffic plan
- Use of alternative fuels and energy-saving equipment
- Evaluation of material selection for interior and exterior building use
- Redirecting reusable and/or recyclable materials
- Purchase of "green" products
- Promotion of mass transit or other less-energy consuming modes of transportation.

During operations, conservation will be achieved from the use of high efficiency equipment and lighting whenever feasible. It is in the economic interest of MVHS to use less energy. In addition, regulatory standards for high efficient construction and lighting will be applied. Energy requirements will be consistent with energy policy recommendations established in the New York State Energy Conservation Construction Code.¹¹⁸

¹¹⁸ <https://www.dos.ny.gov/DCEA/pdf/2016%20EC%20Supp-Revised-2016-08-12-approved%20bycouncil%20V-A.pdf>

