
**CHAPTER FIVE:
Irreversible and Irretrievable
Commitment of Resources**

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The purpose of this section is to identify irreversible and irretreivable commitments of environmental resources required to execute the proposed action. The section is divided into construction phase and operation phase of the new facilities.

5.1 Construction Phase

The construction phase of the proposed action will require building materials to be used in the erection of new buildings and associated site work. Materials required include masonry materials such as concrete and stone; metals such as steel, aluminum and copper; petroleum products such as those contained in asphalt and fuel for construction equipment; glass; and synthetics such as those contained in insulation and carpeting. The sustainable design initiatives used in the specification of the building and site materials are intended to minimize the impact on the environment from manufacturing and shipping the construction materials. No shortage of materials is anticipated that could result in a negative impact on other projects.

The construction process will result in the modification of vegetation on the site.

5.2 Operating Phase

The operation of the proposed action will require expenditure of energy and other natural resources such as water. Energy supplied to the project is permanently lost to the surrounding environment. Potable water is taken from Fall Creek, utilized and discharged to Cayuga Lake via the Ithaca Area Waste Water Treatment Plant. Resources are expended in purifying the water. A number of resources will be needed to serve the project. These include water and sewage disposal facilities, solid waste facilities and management procedures, police and fire protection and medical services. Currently, west campus uses all of these facilities and services. Since the overall student population for this project is not increasing, it is expected that there will be no significant increase in the commitment of operating resources.

Increased energy expenditures used to heat larger square foot buildings, and air condition some of the proposed buildings will be offset by the replacement of older, poorly insulated buildings with new, better insulated structures, and are expected to be small to moderate. The energy consumption will not have a significant effect on the community's fuel sources or be a significant drain on the existing Cornell capacity to provide utilities to the proposed project. Therefore, shortage of energy supply to the community is not expected to occur as a result of this project.

CHAPTER SIX:
Growth Inducing Aspects

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It is anticipated that approximately 22 new jobs will be added to the local economy following the construction phase.

As there are no additional beds included in this plan, the number of students living on west campus will not increase.

There are no other growth inducing aspects to the project.