

1.0 INTRODUCTION

This attachment considers potential impacts on energy that will be generated from the Proposed Action. The Site is cleared and graded and had been previously used as a staging area for the construction of the Shoreham Nuclear Power Station. Currently, the Site is developed with active electric transmission infrastructure owned by LIPA.

There are currently no battery energy storage facilities in the area. There is an existing substation to the south of the Site which is used for electrical distribution within the area. The BESS will have interconnection into this substation.

2.0 POTENTIAL IMPACTS OF THE PROPOSED PROJECT

KCE is proposing to construct and operate an approximately 50-megawatt (MW) Lithium-Ion Battery Energy Storage System Facility (BESS Facility) on the Site. There will be no net increase/decrease in energy usage as a result of the relocated training facility.

As discussed in Attachment A, KCE NY 31 will support New York’s Climate Leadership and Community Protection Act (CLCPA) and the Public Service Commission’s (PSC) Order establishing a statewide energy storage goal of installing 1,500 MW of energy storage by 2025 and 3,000 MW by 2030. Governor Hochul announced a doubling of the latter to 6,000 MW by 2030 during her State of the State address in January 2022. In June 2024, PSC approved an updated roadmap submitted by New York State Energy Research and Development Authority (NYSERDA)/Department of Public Service (DPS) staff which outlines how this will be achieved. Long Island’s electric grid is rapidly changing in preparation for expected offshore wind and solar generation and the retirement of aging power plants. The local grid will need fast-responding, flexible solutions like battery energy storage to accommodate these changes. KCE NY 31 will respond to intermittent grid fluctuations to enhance the power grid by charging during periods of excess generation and discharging during peak load hours. The BESS Facility will also enhance power grid reliability by providing ancillary services (e.g., voltage uplift) to the New York Independent System Operator (NYISO).

Considering the above, the Proposed Action will have positive impacts on the existing energy resources.