

1.0 INTRODUCTION

This attachment considers the potential impact of the Proposed Action on the existing community services and facilities that serve the Site.

2.0 EXISTING CONDITIONS

As discussed in Section C.4 in the FEA, several community services and facilities serve the Project Site. See **Table I.1** for a summary of existing community services and facilities that serve the Site.

Table I-1 - KCE NY 31 Existing Community Facilities/Services	
Community Facility/Service Type	Name
School District	Shoreham-Wading River Central School District
Police	Suffolk County Police Department 7 th Precinct
Fire Protection/ Emergency Medical Services	Wading River Fire District
Hospital Services*	John T Mather Memorial Hospital
Library Services*	North Shore Public Library District
Parks within 1-mile	Shoreham Beach (0.24 mi), Wading River Beach (0.3 mi), Defense Hill (0.5 mi), Jomar Park (0.98 mi)
*Based on the nearest facility to the Proposed Action Site.	

3.0 POTENTIAL IMPACTS OF THE PROPOSED PROJECT

The Proposed Action does not include new residential development. Therefore, the project will not result in an increased number of school-aged children attending Shoreham-Wading River Central School District.

The Suffolk County Police Department provides police protection for the Proposed Action Site. As discussed above, the project does not include new residential development and thus will not result in an increase in residents/population. Therefore, the Proposed Action will not have an impact on the ability of the current police force to provide adequate services. In addition, the project once operational will be operated and monitored remotely by trained personnel providing surveillance of the Site on a continuous basis.

The Wading River Fire District provides fire and emergency medical services (EMS) protection for the Proposed Action Site. As discussed above, the project does not include new residential development and thus will not result in an increase in residents/population. Therefore, the Proposed Action will not have an impact on the ability of the current fire and EMS force to provide adequate services. KCE will continue ongoing conversations and planning with the Wading River Fire District to ensure the Fire District's needs are met, including but not limited to formal training prior to, during and after construction, as well as formalization of the draft Emergency Operations Procedures (EOP).

Like any energy infrastructure, BESS projects are subject to the risk of fire. Testing has consistently found that the air quality impacts of a battery energy storage fire are similar to that of a plastics or standard structural fire. Fire incidents at smaller battery storage facilities on Long Island and in New York State in the summer of 2023 have highlighted the need to adequately address fire safety, including measures to both prevent and respond to battery storage fires. To address these incidents, Governor Kathy Hochul announced the creation of an Inter-Agency Fire Safety Working Group to ensure the safety and security of energy storage. The Working Group announced that tests conducted during the events in 2023 showed

there were no harmful levels of toxins in the air, soil or water¹. The Proposed Action will comply with the recommendation of the Fire Code Recommendation Report that was ultimately produced by the Working Group² and the corresponding code changes proposed in the “Notice of Rule in Development” which incorporates the recommendations of the Working Group³.

The BESS facility utilizes several preventative measures to reduce the chance of a fire risk and ensure in cases where fires do occur, fires are containable with minimal short-term or long-term impacts to the surrounding community. BESS units utilize battery cells similar to what is found in electric vehicles. These cells are arranged into modules, which have sensors to monitor real time conditions (e.g., temperature, voltage, state of charge, etc.) within the enclosed system. These modules are placed in racks that are built into containers custom-designed for the needs of a BESS Facility, including sensors, communications and control equipment, and specialized fire detection and suppression equipment. The system will comply with various required codes and standards that responsible energy storage installations utilize, including International Fire Code (IFC), International Building Code (IBC), NYS Energy Storage Supplement, the National Fire Protection Association (NFPA) 855/68/69, and UL 9540/9540A (See **Appendix J** – U.S. Codes and Standards for Battery Energy Storage Systems). Additionally, BESS distinguish themselves from other technologies that utilize lithium-ion batteries because BESS have constant air-temperature control and are stationary and therefore not subject to normal physical abuse; similarly, the BESS enclosures have exhaust ventilation systems to prevent dangerous accumulation of gases and thermal management systems which prevent the cell from reaching a temperature that could cause the battery cells to ignite and lead to a thermal runaway incident (See **Appendix J** – Energy Storage & Safety and Battery Energy Storage Safety Frequently Asked Questions [FAQs]). The chosen technology offers the highest level of safety with innovative safety architecture, extensive third-party testing, and design that meet or exceeds industry safety standards (See **Appendix J** – TESLA Megapack 2XL Safety Overview).

The BESS facility also has measures in place so that in the rare event of a fire, potential impacts are mitigated to ensure the safety of local first responders, the surrounding properties, and the community. A Hazard Mitigation Analysis (HMA) was performed for the Proposed Action to assess the anticipated overall effectiveness of protective barriers in place to mitigate the consequences of a battery-related failure. The HMA found that the proposed BESS facility and location poses minimal risk to public or life safety and property by way of being on a secured site adequately set back from public spaces or roadways with no public access to the site (See **Appendix J** – TESLA Megapack 2 XL KCE NY 31 BESS Shoreham Hazard Mitigation Analysis [HMA]). Additionally, a draft Emergency Operations Plan (EOP) was prepared, and will be finalized with the Fire District prior to construction, which sets forth the emergency operations plans and procedures for the proposed facility to provide immediate and effective response to emergencies that might arise (See **Appendix J** – KCE NY 31 Draft Emergency Operations Plan [EOP]).

The BESS facility will be operated and monitored remotely by trained personnel on a continuous 24-hour basis with a response team on standby. The early identification of the source of a problem is critical to the success of mitigation measures and alerting first responders, if they are required on scene. Additionally, the systems are monitored by the Battery Management System (BMS) which actively collects and interprets cell data such as temperature, state of charge, and state of health. Active data collection and regular maintenance will reduce the possibility of emergencies.

The closest hospital to the Proposed Action Site is John T Mather Memorial Hospital, which is located in Port Jefferson, New York. Although the Project Site will be predominantly unmanned, it is possible that personnel may be onsite periodically. As discussed in Attachment A of the Expanded EA, a HSEQ (health, safety, environment, and quality) Management Plan will be in place providing a safe work environment for employees of KCE, contractors, and visitors working at the Site. Considering the HSEQ Management Plan

¹ NYSERDA- <https://www.nyserda.ny.gov/About/Newsroom/2023-Announcements/2023-12-21-Governor-Hochul-Announces-Results-of-Fire-Safety-Working-Group>

² <https://www.nyserda.ny.gov/All-Programs/Energy-Storage-Program/New-York-Inter-Agency-Fire-Safety-Working-Group>

³ <https://dos.ny.gov/notice-rule-development>

that will be in place and the lack of increase in residents or employees, the Proposed Action will not have an impact on the ability of the current hospital facilities to provide adequate services.

The closest library to the Proposed Action Site is the North Shore Public Library District. Further, four (4) parks are located within 1-mile of the Proposed Action Site as shown in **Table I-1**. The Proposed Action is a BESS facility and thus will not result in an increase in the residential population. Accordingly, the project will not result in impacts on the existing library services, nor will it lead to a strain on park facilities located in the vicinity of the Site.

The relocation of the training facility, the interconnect line, and upgrades to the existing LIPA substation will not result in additional people on the Site and will be consistent with onsite and surrounding uses/facilities. Therefore, no community services/facilities serving the Site will be impacted by the relocation of the training facility, the interconnect line, and upgrades to the existing LIPA substation.

Considering the above, the Proposed Action Site is not anticipated to have a significant adverse impact to community services/facilities serving the Site.