

**ENVIRONMENTAL ASSESSMENT FORM  
SUPPLEMENTAL INFORMATION ATTACHMENT**

**Key Capture Energy (NY31) (the “Proposed Action”)**

**Part 1**

**D.1. - Proposed and Potential Development**

**D.1.b.a – Total acreage of the site of the Proposed Action**

2.29 acres will house the BESS Facility and 2.10 acres will house the relocated training facility. The parcels that the BESS Facility and relocated training facility will be located on have a cumulative total acreage of 56.98 acres (46.98 acres for SCTM Number 0200-039.00-02.00-002.000 and 10.00 acres for SCTM Number 0200-040.00-01.00-001.000).

**D.1.b.b – Total acreage to be physically disturbed**

Approximately 2.29 acres will be physically disturbed for the construction of the BESS Facility/interconnect line. Approximately 2.10 acres will be physically disturbed for the relocation of the training facility.

**D.1.b.c – Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor**

2.29 acres of the 46.98-acre parcel will be leased from LIPA and will house the BESS Facility.

**D.1.e.i – Anticipated period of construction**

Construction of KCE NY 31 will take approximately 16 months. In order to maintain optimal operating capacity, the project will include periodic augmentation of the system, tentatively starting in the third year of operations. This augmentation will consist of adding new battery containers and possibly medium voltage power conversion systems. KCE NY 31's design in this application depicts the footprint and equipment after all augmentation is completed through the project life. To the extent possible, KCE will prepare the Proposed Action Site during initial construction (e.g., grading, foundations, access roads, etc.) in anticipation of project battery augmentation.

**D.1.g.i – Total number of structures**

Total number of structures include 53 battery modules; 119 CMA units; 14 MV transformer units; one (1) auxiliary load transformer; a storage shipping container; and a project substation control building.

**D.1.g.ii – Dimensions (in feet) of largest proposed structure**

The largest structure will be approx. 13" feet in height (project substation building). However, the proposed lightning mast will be 55'2" in height.

**D.1.g.iii – Approximate extent of building space to be heated or cooled**

Square footage includes structures that will be cooled including the 53 battery modules (via liquid cooled pump systems); project substation control building and relocated training facility trailer (via HVAC unit).

**D.2.p.ii – Chemical Metrics**

It is anticipated that a total of approximately +/- 14,755 kg of Anode (including Carbon/Graphite), +/- 12,765 kg of Cathode (including lithium transition metal oxides or lithium iron phosphate), and +/- 18,440 kg of Electrolyte (including Lithium salts and Carbonate Esters) encased within each BESS containers; +/- 240 kg coolant/refrigerant per BESS container unit; +/- 35,000 liters of dielectric fluids within the medium voltage transformers; +/- 35,000 liters of dielectric fluid within the main power transformer (MPT); and +/- 700 gallons of dielectric fluid within auxiliary load transformer will be located onsite.

**E.1. - Land Uses On and Surrounding the Project Site**

**E.1.h.i – Potential contamination history – spill incidents**

During Phase I ESA research and investigations, it was identified that 20 spills occurred on-site and on adjoining properties. H2M has reviewed the spill reports for each of the spill incidents and determined that there are no open spill case investigations. See Attachment J of the Expanded EA for further detail.

Spill Incidents Table from Phase I ESA

Site Name	Databases	Spill #	Spill Date	Spill Closed Date
PPL Shoreham Energy LLC / 277 N Country Rd	RCRA-VSQG MOSF NY Spills Manifest SPDES	0207262	10/12/2002	11/1/2022
LILCO / Shoreham Nuclear Power	LTANKS NY Spills	8700471	4/16/1987	4/16/1987
		9111405	2/4/1992	2/6/1992
PPL Shoreham Power Plant	UST AST	N/A	N/A	N/A
Shoreham Energy LLC	CBS AIRS	N/A	N/A	N/A
Shoreham Nuclear Power	NY Spills	9500129	4/3/1995	1/28/2004
Shoreham Nuclear Power Place	NY Spills	9307629	9/22/1993	2/22/1995
Shoreham Nuclear Power	NY Spills	9708362	10/16/1997	3/4/1998
Shoreham Nuclear / Diesel Transfer Station	NY Spills	9209833	11/23/1992	6/14/2004
Shoreham Gen Sta Bldg 117	NY Spills	9510848	11/28/1995	12/1/1995
Shoreham Power Station / PO 628	NY Spills	9401394	4/28/1994	5/10/1994
Shoreham Nuclear PS / No Country Road IFO Bldg #6	NY Spills	9307935	9/30/1993	10/1/1993
LILCO / Shoreham Power Plant Bldg #25	NY Spills	9011665	2/6/1991	2/12/1991
LILCO Shoreham / Area 34 Power Plant	NY Spills	8802649	6/23/1988	9/26/1988
Unknown / Shoreham Power Plant	NY Spills	8601656	6/10/1986	4/22/1987
		8902545	6/12/1989	6/27/1989
LILCO (Orphan Site)	NY Spills	9508241	10/4/1995	10/10/1995

### **E.3. - Designated Public Resources On or Near the Project Site**

#### **E.3.h.i – Officially designated and publicly accessible federal, state, or local scenic or aesthetic resource - list of identified resources**

Long Island North Shore State Heritage Area , Brookhaven State Park (1.2 mi), Rocky Point Pine Barrens State Forest (2.6 mi), Wildwood State Park (2.9 mi), Shoreham Beach (0.24 mi), Wading River Beach (0.3 mi), Defense Hill (0.5 mi), Jomar Park (0.98 mi), Miller Ave Park (1.61 mi), Police Officers Memorial Park (1.8 mi), Tallgrass Golf Club (1.8 mi), Great Rock Golf Club (2 mi), Bayberry Park (2.13 mi), Friendship Beach (2.69 mi), Broadway Beach (3.04 mi), Calverton Mountain Bike Trail (3.57 mi), Veterans Memorial Park (3.62 mi), Isaac Dog Park (3.77 mi), Ridge Multiple Use Area (3.96 mi), Robert Miner Park (4 mi), Robert Miner Park (4.04 mi), Brookhaven Veterans Park (4.11 mi), Hagerman Landing Beach (4.48 mi), Grumman Memorial Park (4.52 mi), and Tides Beach (4.65 mi), North Shore Rail Trail (0.92 mi), Wading River Marsh Preserve (1,050 feet), Josiah Woodhull House (900 feet), Tuthill-Lapham House (0.8), Benjamin King Woodhull House (0.75), and Former Nike Missile Launch Facility (0.61).