What Powers You

July 29, 2024

Melanie Bachman, Esq.
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: Petition of Bloom Energy Corporation for a Declaratory Ruling for the Location and Construction of a 900-Kilowatt Fuel Cell Customer-Side Distributed Resource at Assa Abloy, 100 Sargent Drive, New Haven, Connecticut

Dear Attorney Bachman:

We are submitting an original and fifteen (15) copies of the above-captioned Petition, together with the filing fee of $625.

In the Petition, Bloom Energy Corporation ("Bloom") requests the Connecticut Siting Council approve the construction and operation of a 900-kilowatt fuel cell and associated equipment at the Assa Abloy manufacturing facility in New Haven, Connecticut (the "Facility"). The Facility will be installed at 100 Sargent Drive. Electricity generated by the Facility will benefit Assa Abloy's operation at that location, and any excess electricity will be exported to the electric grid. The Facility will be fueled by natural gas.

Should you have any questions, concerns, or require additional information, please contact me at (917) 803-4511.

Sincerely,
Bloom Energy

Kristen Grillo
kristen.grillo@bloomenergy.com
(917) 803-4511

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

PETITION OF BLOOM ENERGY CORPORATION FOR A DECLARATORY RULING FOR THE LOCATION AND CONSTRUCTION OF A 900-KILOWATT FUEL CELL CUSTOMER-SIDE DISTRIBUTED RESOURCE AT ASSA ABLOY, 1000 SARGENT DRIVE, NEW HAVEN, CONNECTICUT	:	PETITION NO. ____
	:	JULY 29, 2024

PETITION OF BLOOM ENERGY CORPORATION
FOR A DECLARATORY RULING

I. INTRODUCTION

Pursuant to Conn. Gen. Stat. §§ 4-176 and 16-50k(a) and Conn. Agencies Regs. § 16-50j-38 et seq., Bloom Energy Corporation ("Bloom") requests that the Connecticut Siting Council ("Council") approve by declaratory ruling the location and construction of a customer-side distributed resources project at the Assa Abloy manufacturing facility ("Assa Abloy"), 100 Sargent Drive, New Haven, Connecticut (the "Property"). Bloom will install a fuel cell facility consisting of three (3) ES-6 Bloom Energy Server solid oxide fuel cells and associated equipment (the "Facility") that will provide a total of 900 kilowatts ("kW") (net) of power to the Assa Abloy building. *See* Exhibits 1 and 3. The Facility will be installed, maintained and operated by Bloom under a 20-year power purchase agreement with Assa Abloy owned by a third-party financing source. The Facility has been selected as part of the Non-Residential Renewable Energy Solutions ("NRES") Program.

Conn. Gen. Stat. § 16-50k(a) provides that:

> Notwithstanding the provisions of this chapter or title 16a, the council shall, in the exercise of its jurisdiction over the siting of generating facilities, approve by declaratory ruling ... (B) the construction or location of any fuel cell, unless the council finds a substantial adverse environmental effect, or of any customer-side

> distributed resources project or facility ... with a capacity of not more than sixty-five megawatts, as long as such project meets air and water quality standards of the Department of Energy and Environmental Projection….

The proposed fuel cell installation will be a customer-side distributed resources facility under 65 MW that complies with the air and water quality standards of the State of Connecticut Department of Energy and Environmental Projection ("DEEP"). Bloom submits that no Certificate is required for the proposed Facility, as the installation would not have a substantial adverse environmental effect in the immediate vicinity of the Facility, Property, or in the State of Connecticut.

II. COMMUNICATIONS

Correspondence and other communication regarding this petition should be directed to the following parties:

Kristen Grillo
Bloom Energy Corporation
4353 North First Street
San Jose, CA 95134
Telephone: (917) 803-4511
Fax: (408) 543-1501
Email: Kristen.Grillo@bloomenergy.com

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San Jose, CA 95134
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Fax: (408) 543-1501
Email: George.Gaydos@bloomenergy.com

III. DISCUSSION

A. The Facility

The Facility will be a 900-kW customer-side distributed resource consisting of three (3) Bloom solid oxide fuel cell Energy Servers, one (1) each of models ES6-3250US5002S-NASK10-A, ES6-3000US5002S-NASK10-A, and ES6-2750US5002S-NASK10-A; and associated equipment. As shown on Exhibits 2 and 3, the fuel cell and associated equipment (utility cabinets, water deionizers, telemetry cabinets, and disconnect switches) will be installed behind the Assa Abloy building in the west-central portion of the Property. An equipment area

will be developed in a lawn area at the southwest corner of the building. Due to the area's flood zone designation, and as further described in Section III.C.v. of this Petition, the equipment will be raised approximately 4' above the surrounding ground level on an asphalt apron. A 6'-wide ramp will extend from a service driveway south to the equipment pad to provide access to the raised Facility.

Connections to existing electrical, communication, gas and water utilities will extend underground from the equipment area, east between the equipment area and an existing water tank to the Assa Abloy building, then continue underground northerly along the building perimeter to various points of tie-in within the building or at the building's exterior wall. The Facility will be fueled by natural gas supplied by Southern Connecticut Gas. Exhibits 1 and 2 depict the Facility location; Exhibit 3 contains plans; Exhibit 4 contains a photograph and equipment specifications.

Bloom has sized the system at 900 kW based on consultation with Assa Abloy's representatives and analysis of Assa Abloy's operational needs. The Facility will replace a portion of the average baseload of the Site with a Class I renewable energy source and improve reliability of electrical systems and equipment. It has been sized to provide at least 50% of Assa Abloy's average annual baseload. Exhibit 4. Electricity generated by the Facility will be consumed primarily for the Assa Abloy operations and any excess electricity will be exported to the grid.

The operational life of the Facility is for the life of the 20-year contract with Assa Abloy. At the conclusion of the 20-year contract, Assa Abloy may renew the contract, return the Facility at no cost, or buy the Facility at a fair market value.

The interconnection application for the Facility was filed with United Illuminating in May, 2024 and is under engineering study review; approval is anticipated in December, 2024.

B. Public Health and Safety

The Facility will be installed in compliance with applicable building, plumbing, electrical, and fire codes. The Facility is enclosed, factory-assembled and tested prior to installation. Solid oxide media in the fuel cells are exchanged at roughly five-year intervals. Extensive hardware, software and operator safety control systems are utilized, and will be controlled from a Bloom Energy Remote Monitoring Control Center ("RMCC"). Internal sensors continuously monitor system operation and provide for system components to shut down if safety circuits detect a condition outside normal operating parameters; the RMCC operator can initiate an emergency shutdown if warranted. Bloom will provide City of New Haven ("City") Fire Department personnel and Assa Abloy's operations/emergency personnel with an Emergency Response Plan and will offer to provide training. Exhibit 6.

The Facility will be installed in accordance with NFPA 853.[1] The Facility does not burn natural gas; it is used in a chemical reaction to generate electricity, and is digested almost immediately upon entering the unit and is no longer combustible. Before commissioning, the fuel lines (pipes) are cleaned in accordance with Conn. Gen. Stat. Section 16-50ii[2].

C. Existing and Proposed Environment

i. <u>The Facility Location</u>

The Property is an approximately 30-acre parcel located in the Long Wharf area of the City. It is developed with a single building that houses Assa Abloy's manufacturing facility and office space. The southern portion of the property contains a paved parking area. The Property is zoned IL – Light Industry.

[1] Standard for the Installation of Stationary Fuel Cell Power Systems, 2020 Edition
[2] Public Act 11-101, An Act Adopting Certain Safety Recommendations of the Thomas Commission

The surrounding area consists of industrial, commercial, and transportation properties. The New Haven rail yard associated with Union Station is located to the north and west, bordering the nearest property boundary to the Facility. Interstate Route 95 ("I-95") and Long Wharf Drive extend in a northeast-southwest direction to the east and south of the Property, with New Haven Harbor beyond.

The fuel cell installation will be located in the west central portion of the Property, near the southwest corner of the Assa Abloy building. The Facility is designed to take advantage of existing infrastructure within and adjoining the Assa Abloy building. After construction, there will be no impact on vehicular access to the parking lot or a driveway behind the building.

ii. Wildlife and Habitat

Based on a review of the publicly available Connecticut Department of Energy and Environmental Protection (DEEP) Natural Diversity Database (NDDB) June 2024 data, the proposed Facility is not within an NDDB area, an identified location of endangered, threatened and special concern species or significant natural community. Exhibit 5. The nearest NDDB area is approximately 0.25 mile southeast of the proposed Facility location. Therefore, no consultation with DEEP NDDB is required.

The Property and the surrounding vicinity are heavily developed with buildings and paved surfaces. The addition of the Facility in close proximity to highly developed and heavily traveled infrastructure will have no effect on wildlife habitat.

iii. Wetlands and Watercourses

No wetlands are identified on DEEP state wetland mapping as extending onto the Property. Facility development would not result in any direct or indirect effect on wetland or watercourse resources. As described herein, appropriate erosion and sedimentation control measures will be employed during construction.

iv. Aquifer Protection Area

The Facility location was reviewed for proximity to Aquifer Protection Areas. According to GIS data provided by DEEP, the Facility is approximately 8.3 miles south of the nearest Aquifer Protection Area.

v. Flood Zone and Coastal Boundary

The proposed Facility is located within the Coastal Boundary associated with the New Haven Harbor and an associated flood zone AE12. This flood zone is also located in a Limit of Moderate Wave Action (LiMWA) zone, a Coastal AE 12 zone, and as such is treated like a VE zone for construction per the Connecticut State Building Code. These design requirements as well as those noted in Section 8 of Connecticut Public Act 18-82, require no less than two feet of freeboard above the base flood elevation (BFE). The Facility's location in the AE 12 zone dictates a BFE of 12 feet; the addition of two feet of freeboard brings the minimum elevation for the proposed Facility design to elevation 14 feet. As this is a coastal location, no compensatory storage is required.

As noted on the project site plans (Exhibit 3), particularly Elevation View detail (A-A) on Drawing No. C1.2, an earthen berm is proposed that will elevate equipment to a minimum of 14.2 feet, with the bottom of the Bloom Energy Servers to be no less than elevation 15.37 feet with supporting skids. This design satisfies the applicable flood regulations and resiliency requirements.

The proposed flood resiliency design, as presented in this Petition, resulted from an initial consultation with the National Flood Insurance Program (NFIP) State Coordinator. A formal review of the design has been submitted to the NFIP State Coordinator at CT DEEP for a determination of compliance with NFIP regulations.

Aside from the coastal flood zone, no other coastal resources are located on the Property, including at the proposed Facility location. The nearest coastal resource to the proposed Facility is intertidal flats and tidal wetlands associated with the northern edge of New Haven Harbor located over 1,400 feet southeast of the Facility. With the significant separating distance, which includes intervening industrial development and I-95, the proposed Facility will not impact intertidal flats, tidal wetlands, or New Haven Harbor. Therefore, the activity proposed by Bloom is consistent with all applicable policies in Section 22a-92 of the Connecticut Coastal Management Act and will not adversely impact coastal resources of the City.

vi. Cultural Resources

The Property, including the Facility location, has been previously developed and disturbed. Construction and operation of the Facility is therefore not expected to have an adverse effect on cultural (archaeological and historical) resources.

D. Environmental Effects and Mitigation

i. Natural Gas Desulfurization Process

Sulfur compounds that are added to natural gas as an odorant are removed in the first step of electricity production in a Bloom Energy Server. Sulfur is separated from the natural gas by filtering in a specialized canister within the Energy Server (the "Desulf Unit") that uses a copper catalyst to remove the sulfur. The Desulf Units are periodically removed and replaced. The spent units are transported to ShoreMet, L.L.C. (ShoreMet) in Indiana, where they are opened, the contents are removed and copper is used as an ingredient in various products. The Desulf Units are then cleaned, refilled, and sent back to the field for reuse. Handling and transportation are performed in accordance with hazardous waste restrictions.

ii. Water, Heat and Air Emissions

The construction and operation of the Facility will comply with DEEP's air and water quality standards and will not have a substantial adverse environmental effect.

The Facility is designed to operate without water discharge under normal operating conditions. There are no connections or discharge points to the proposed Facility. The Facility uses no water after start-up, which requires a 720-gallon injection.

Heat generated by the proposed Facility is used internally to increase the electrical efficiency of the fuel cell system. As a result, there is no useful waste heat generated by the fuel cell. The minimal amount of thermal load present at the Site would preclude the efficient deployment of a combined heat and power application.

Conn. Agencies Regs. § 22a-174-42 exempts fuel cells from air permitting requirements. Accordingly, no permits, registrations, or applications are required based on the actual emissions from the Facility.[3] It should be noted, however, that Bloom Energy fuel cells do meet the emissions standards of Section 22a-174-42.

The Facility will also meet state criteria thresholds for all greenhouse gases defined in Section 22a-174-1(49). Table 1 lists thresholds set by the NRES Program Manual, and compares them to emissions generated from the proposed Facility. By virtue of the non-combustion process the Bloom Energy fuel cells virtually eliminate NOx, SOx, CO, and VOCs from the energy production process. Similarly, there are no CH_4, SF_6, HFC or PFC emissions.

[3] See Conn. Agencies Regs. §§ 22a-174-42(b) and (e).

Table 1: Connecticut Thresholds for Greenhouse Gases

Emission Type	Bloom Output	NRES Allowance
Nitrous Oxides (NOx)	<0.01 lbs/MWh	0.07 lbs/MWh
Carbon Monoxide (CO)	<0.05 lbs/MWh	0.10 lbs/MWh
Sulfur Oxides (SOx)	Negligible	Not Listed
Volatile Organic Compounds (VOCs)	<0.02 lbs/MWh	0.02 lbs/MWh
Carbon Dioxide (CO2)[4]	679-833 lbs/MWh	Not Listed

The proposed Facility will ultimately displace less efficient fossil fueled marginal generation on the ISO New England system. Based upon the most recent US Environmental Protection Agency (EPA) "eGrid" data (2022), the proposed Facility is expected to reduce carbon emissions by approximately 16.3% while essentially eliminating local air pollutants like NOx and SOx.

The City's Plan of Conservation and Development, "New Haven Vision 2025" ("POCD"), adopted in 2015, focuses throughout on energy conservation. In Section VII, Environment, development of renewable energy resources is specified. "Moving forward, the city will require a continued commitment to sustainable environmental policy and a systematic approach to energy efficiency and development of renewable energy resources to further improve air quality and ensure a high quality environment." POCD, page VII-4. In addition, the Long Wharf Responsible Growth Plan envisions the continued presence of Assa Abloy as a key anchor for the area. The City's Zoning Ordinance does not specifically address fuel cells or renewable energy facilities, but utility uses are consistent with the LI district.

iii. Sound Levels

The Facility will comply with both State of Connecticut and City regulations for the control of noise.

[4] Carbon dioxide is measured at Bloom's stated lifetime efficiency level of 53-60%.

Bloom retained Veneklasen Associates to evaluate the impact of noise from the proposed Facility on nearby properties. *See* Exhibit 7, Veneklasen Associates Property Line Noise Analysis ("Report"). As indicated in the Report, nearby receptors are industrial in nature and there is ambient noise from Interstate 95 and other industrial sound sources. The Report concludes that noise levels from the proposed Facility will be in compliance with State and City noise limits, without any need for mitigation.

Bloom typically performs project construction Monday through Friday, 7:00 a.m. to 5:00 p.m. The City's noise ordinance defines daytime hours as Monday through Saturday, 7:00 a.m. to 10:00 p.m. and Sunday and holidays, 9:00 a.m. to 9:00 p.m.

iv. Visual Effects

The visual effect of the Facility will be limited primarily to the Property, with some visibility from the rail yard, which is not an area of public access. The scale of the Facility to the Assa Abloy development minimizes any impact, and there is no visibility to the rear of the Property from the walkways along New Haven Harbor due to the intervening highway and industrial infrastructure. Therefore, there is little or no incremental visual effect from development of the Facility.

E. Project Construction and Maintenance

Bloom anticipates construction to start in the second quarter of 2025 with approximately four months of total construction time (4 - 6 weeks of site prep, 4 - 6 weeks of installation, and 4 – 6 weeks of commissioning).

Construction of the Facility would conform to best management practices for erosion and sedimentation ("E&S") controls, including those provided for in the 2024 Connecticut Guidelines for Soil Erosion and Sediment Control. During construction, appropriate erosion and sedimentation (E&S) controls will be installed and areas of disturbance will be promptly

stabilized in order to minimize the potential for soil erosion and the flow of sediments off-site. Temporary E&S control measures will be maintained and inspected throughout construction to ensure their integrity and effectiveness. The temporary E&S control measures will remain in place until the work is complete and all disturbed areas have been stabilized. No effects to drainage patterns or stormwater discharges are anticipated. Due to the limited disturbance required for the Facility's installation, no construction-related stormwater permits will be required.

Soils that are generated during construction activities would not be stored or stockpiled inside of wetlands or adjacent to a watercourse, and appropriate E&S control measures would be employed and maintained for any temporary soil stockpiles. Any excavated soils compatible for reuse will be used as backfill in proximity to the same excavation area from where it originated. Any excess excavated soils not suitable for reuse would be trucked off-site and managed in accordance with applicable regulations. Rock, concrete and other debris would be removed and trucked off-site.

Areas affected by construction would be re-graded as practical and stabilized using revegetation or other measures before removing temporary E&S controls. Construction-related impacts will therefore be minimal.

If there is a default in the contract or the Facility is to be removed at the end of the contract, the Energy Servers, associated equipment and components will be dismantled and removed and the Facility location will be restored as nearly as practicable to its effective original condition.

IV. NOTICE AND CONSULTATION

Bloom has provided notice of this petition via certificate of mailing to abutting property owners and appropriate municipal officials and governmental agencies to whom notice is

required to be given pursuant to Conn. Agencies Regs. § 16-50j-40(a). Lists of officials and abutting property owners, a copy of the notice letters and documentation of mailing are provided in Exhibit 8.[5]

A representative of Bloom contacted Ms. Laura Brown, Executive Director of City Plan, by email on April 22, 2024 and provided plans for the proposed Facility for review and comment. That email was followed on July 18, 2024 with a more detailed plan and update on Bloom's anticipated submission to the Council. Neither Ms. Brown nor any other municipal official has provided comments or questions to date. *See* Exhibit 9.

V. CONCLUSION

Under Conn. Gen. Stat. § 16-50k(a), the Council is required to approve by declaratory ruling the construction or location of a customer-side distributed resources project or facility with a capacity of not more than 65 MW, as long as the facility meets DEEP air and water quality standards. The proposed Facility meets each of these criteria.

The proposed project will replace a portion of Assa Abloy's baseload with a Class I renewable energy source, assist in achieving the State's sustainability goals, and improve reliability of electrical systems and equipment.

[5] Due to a delay in filing beyond that originally anticipated, Bloom provided notice twice, by letters dated April 29, 2024 and July 22, 2024.

Bloom submits that no Certificate is required for the proposed Facility, as the installation would not have a substantial adverse environmental effect in the immediate vicinity of the Facility, Property or in the State of Connecticut. Accordingly, Bloom respectfully requests that the Council approve the proposed Facility by declaratory ruling.

Respectfully submitted,

Bloom Energy Corporation

By:_____

Kristen Grillo
Bloom Energy Corporation
4353 North First Street
San Jose, CA 95134
Telephone: (917) 803-4511
Email: kristen.grillo@bloomenergy.com

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Exhibit 1

C:\Users\mkope\APT GIS Dropbox\APT GIS Team Folder\Projects\Bloom Energy\Assa Abloy_New Haven_CT507870\mxd\Assa Abloy New Haven Exhibit 1 - Site Location Map.mxd

Legend

- Project Area
- Site
- Municipal Boundary (CTDEEP)

Map Notes:
Base Map Source: USGS 7.5 Minute
Topographic Quadrangle Map: New Haven, CT (1984)
Map Scale: 1:24,000
Map Date: April 2024

N

1,000 500 0 1,000 Feet

Exhibit 1
Site Location Map

Proposed Bloom Energy Facility
Assa Abloy
100 Sargent Drive
New Haven, Connecticut

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Exhibit 2

Legend

- Site
- Abutting Property
- Approximate Assessor Parcel Boundary
- Equipment
- Asphalt Service Apron
- Limit of Grading
- Electrical Service
- Water Service
- Gas Service

Map Notes:
Base Map Source: CTECO 2019 Aerial Photograph
Map Scale: 1 inch = 300 feet
Map Date: July 2024

N

300 150 0 300 Feet

Exhibit 2
Site Vicinity

Proposed Bloom Energy Facility
Assa Abloy
100 Sargent Drive
New Haven, Connecticut

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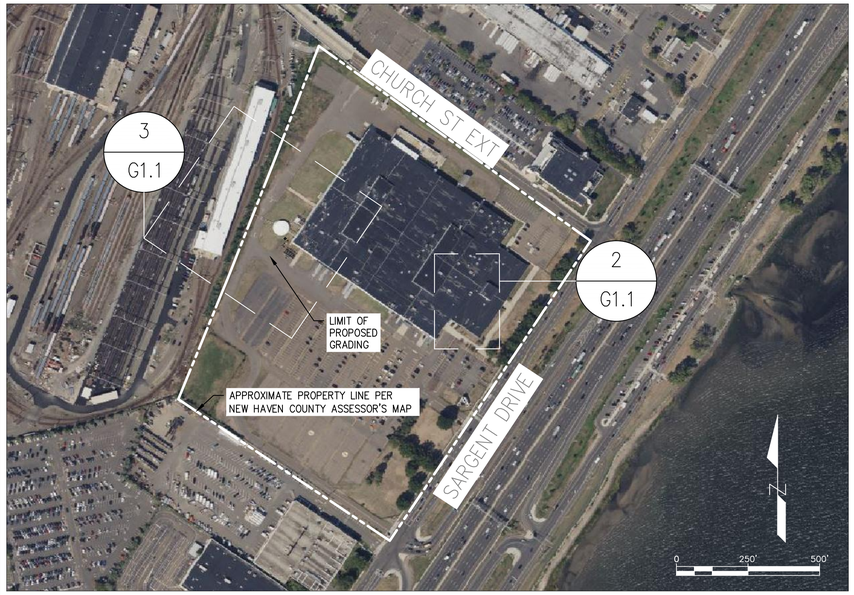
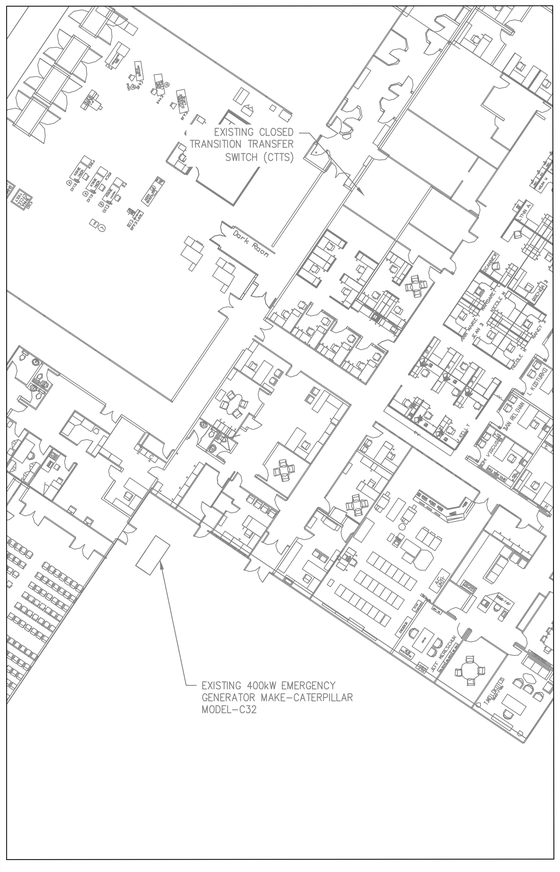
Exhibit 3



KEY SITE PLAN

SCALE: 1" = 250'

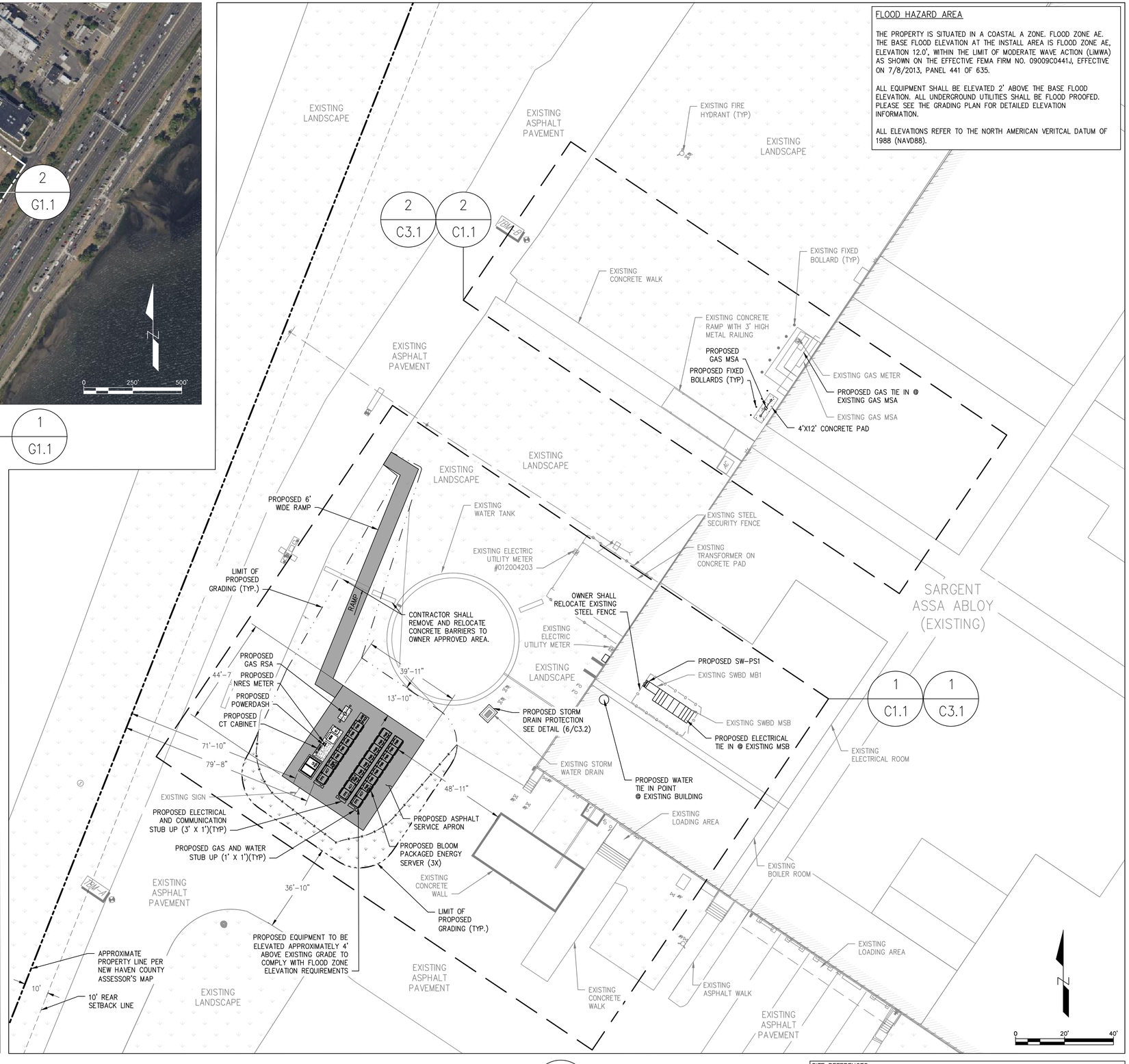
1 G1.1



EMERGENCY GENERATOR LOCATION

SCALE: 1" = 20'

2 G1.1



GENERAL SITE PLAN

SCALE: 1" = 20'

3 G1.1

FLOOD HAZARD AREA

THE PROPERTY IS SITUATED IN A COASTAL A ZONE. FLOOD ZONE AE. THE BASE FLOOD ELEVATION AT THE INSTALL AREA IS FLOOD ZONE AE, ELEVATION 12.0', WITHIN THE LIMIT OF MODERATE WAVE ACTION (LiMWA) AS SHOWN ON THE EFFECTIVE FEMA FIRM NO. 09009C0441J, EFFECTIVE ON 7/8/2013, PANEL 441 OF 635.

ALL EQUIPMENT SHALL BE ELEVATED 2' ABOVE THE BASE FLOOD ELEVATION. ALL UNDERGROUND UTILITIES SHALL BE FLOOD PROOFED. PLEASE SEE THE GRADING PLAN FOR DETAILED ELEVATION INFORMATION.

ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERITCAL DATUM OF 1988 (NAVD88).

SITE REFERENCES:

1. EXISTING SITE CONDITIONS TAKEN FROM TOPOGRAPHIC SURVEY ENTITLED "PARTIAL TOPOGRAPHIC AND UTILITY SURVEY" DATED 01/29/2024 BY CONTROL POINT ASSOCIATES, Inc.
2. AERIAL IMAGERY

Bloomenergy

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ENGINEER OF RECORD
CARSON TURNER, P.E.
LICENSE # 22700

CUSTOMER SITE

ASSA ABLOY INC.
100 SARGENT DR.
NEW HAVEN, CT 06511

ASSA ABLOY
The World's Leading Lock Group

RELEASE HISTORY

REV	ISSUE PURPOSE	DATE
–	INITIAL RELEASE	07/02/2024

DESIGNED BY KATE TAYLOR	REVIEWED BY CARSON TURNER
DRAWN BY MAHADEVA D K	APPROVED BY CARSON TURNER

SHEET TITLE

GENERAL SITE PLAN

DRAWING NUMBER

G1.1

BLOOM ENERGY DOCUMENT NUMBER

DOC-1017348

THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: ABL000.0 | SHEET 03 OF 15

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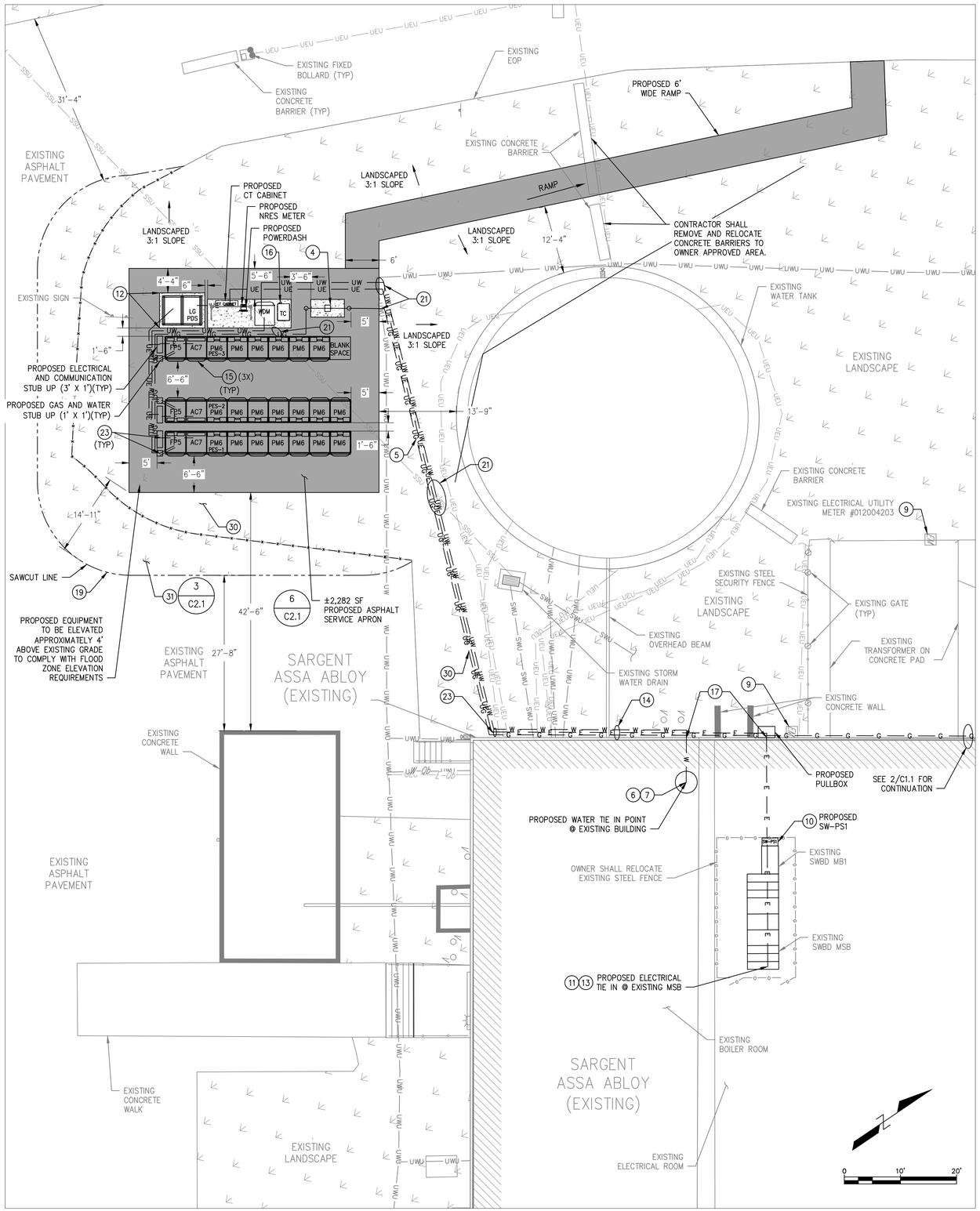

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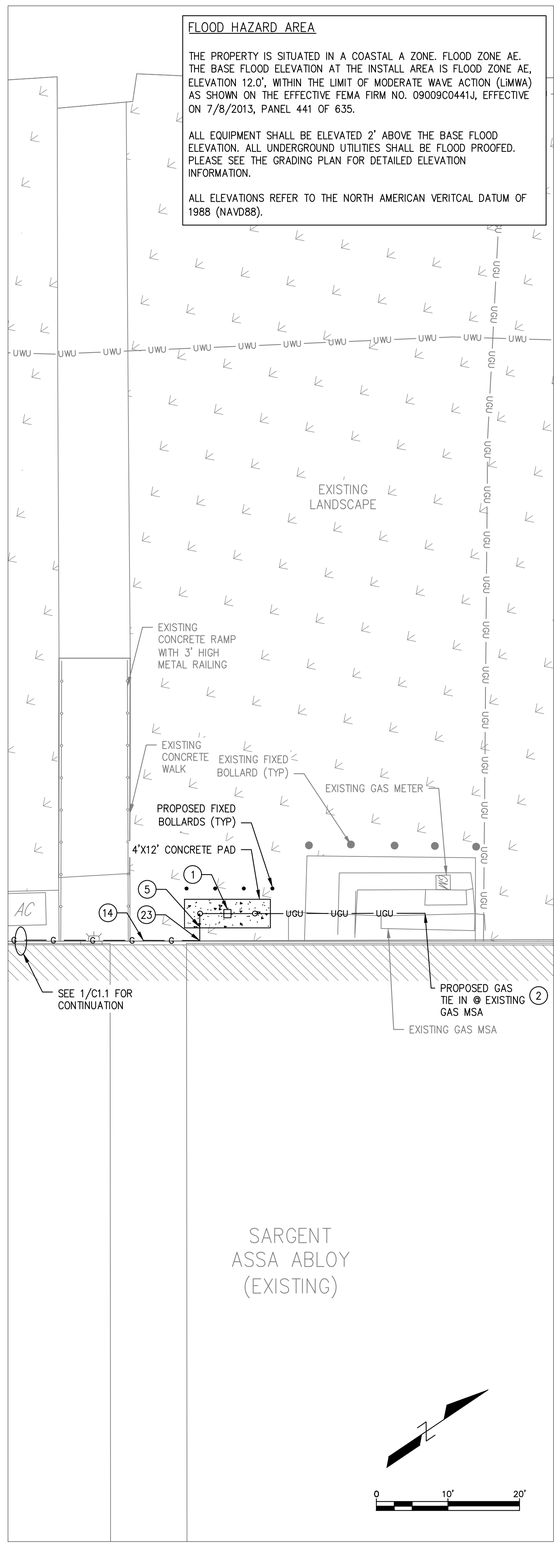
2. AERIAL IMAGERY

DETAILED SITE PLAN

SCALE: 1" = 10'

1 / C1.1



DETAILED SITE PLAN

SCALE: 1" = 10'

2 / C1.1

FLOOD HAZARD AREA

THE PROPERTY IS SITUATED IN A COASTAL A ZONE. FLOOD ZONE AE. THE BASE FLOOD ELEVATION AT THE INSTALL AREA IS FLOOD ZONE AE, ELEVATION 12.0', WITHIN THE LIMIT OF MODERATE WAVE ACTION (LiMWA) AS SHOWN ON THE EFFECTIVE FEMA FIRM NO. 09009C0441J, EFFECTIVE ON 7/8/2013, PANEL 441 OF 635.

ALL EQUIPMENT SHALL BE ELEVATED 2' ABOVE THE BASE FLOOD ELEVATION. ALL UNDERGROUND UTILITIES SHALL BE FLOOD PROOFED. PLEASE SEE THE GRADING PLAN FOR DETAILED ELEVATION INFORMATION.

ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERITCAL DATUM OF 1988 (NAVD88).

GENERAL NOTES

1. CLEAN AND PRIME ALL PROPOSED WALL MOUNTED PIPING AND CONDUIT. PIPING AND CONDUIT SHALL BE PAINTED WITH EXTERIOR GRADE PAINT TO MATCH EXISTING WALL COLOR.
2. CONDUITS AND PIPES MOUNTED TO BUILDING WALL SHALL BE SUPPORTED AS PER LOCAL CODE, RUN AT HEIGHT ABOVE DOORWAYS, AND STAND OFF WALL TO AVOID EXISTING CONDUITS AND PIPES.
3. SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.
4. PRIOR TO LANDING THE PACKAGED ENERGY SERVER, CONTRACTOR SHALL CONFIRM EXISTING GRADING IN INSTALL AREA IS MAXIMUM 2% SLOPE ACROSS THE ENERGY SERVER INSTALLATION AREA AND MAXIMUM 5% SLOPE WITHIN THE SERVICE AREA. REFER TO LEVELING COURSE DETAIL FOR ADDITIONAL INFORMATION.
5. ALL EXISTING FEATURES SHALL REMAIN AND BE PROTECTED THROUGHOUT THE DURATION OF CONSTRUCTION UNLESS OTHERWISE NOTED ON PLANS.
6. CONTRACTOR SHALL PROVIDE ELECTRICAL PULL BOXES EVERY 360 DEGREES OF HORIZONTAL AND VERTICAL BENDS. EXACT NUMBER AND LOCATION OF BOXES SHALL BE FIELD VERIFIED BY CONTRACTOR AND INSTALLED IN ACCORDANCE WITH NEC REQUIREMENTS.
7. IF AND WHERE THE EXISTING SLOPE IS GREATER THAN 5% IN THE AREA OF THE PACKAGED ENERGY SERVER (PES) INSTALLATION, THE CONTRACTOR SHALL SUPPLY AND INSTALL SHIM PLATES TO ACHIEVE THE 5% MAXIMUM SLOPE FOR THE PES UNIT. CONTRACTOR SHALL FIELD VERIFY IF SHIM PLATES ARE REQUIRED TO ACHIEVE THE 5% MAXIMUM SLOPE AND NOTIFY THE EOR OF APPROXIMATE LIMITS ALONG THE PES SUPPORT FRAME AND HEIGHTS OF SHIM PLATES NEEDED TO ACHIEVE THE 5% MAXIMUM SLOPE. EOR SHALL PROVIDE ADDITIONAL DIRECTION AS NEEDED. SHIM PLATES AND INSTALLATION ARE NOT DETAILED, AND SHALL BE SUBMITTED AS A DEFERRED SUBMITTAL TO THE EOR.
8. DIMENSIONS SHOWN BETWEEN THE SYSTEM(S) AND ANOTHER SYSTEM OR OBJECT REFERENCES THE SYSTEM PAD/SKID.

REFERENCE SHEET NOTES

1. UTILITY SHALL FURNISH AND INSTALL GAS METER ASSEMBLY WITH SHUT-OFF VALVE. CONTRACTOR SHALL INSTALL CONCRETE PAD IN ACCORDANCE WITH UTILITY SPECIFICATIONS AND COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
2. UTILITY SHALL PERFORM UNDERGROUND GAS SERVICE TAP. CONTRACTOR SHALL PERFORM BACKFILL, COMPACTION AND MATCH EXISTING SURFACE AND GRADE. CONTRACTOR SHALL COORDINATE SCHEDULE AND INSTALLATION REQUIREMENTS WITH UTILITY PRIOR TO CONSTRUCTION. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
4. BLOOM ENERGY SHALL FURNISH AND CONTRACTOR SHALL INSTALL PRIVATE GAS REGULATOR SET ASSEMBLY WITH SHUT-OFF VALVE FOR BLOOM ENERGY SERVER. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
5. CONTRACTOR SHALL FURNISH AND INSTALL GAS PIPE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
6. TAP EXISTING WATER LINE AT NEAREST ACCESSIBLE LOCATION AS SHOWN WITH A LOCAL SHUT-OFF VALVE. REFER TO DOMESTIC WATER CONNECTION DETAIL FOR ADDITIONAL REQUIREMENTS.
7. CONTRACTOR SHALL FURNISH AND INSTALL WATER PIPE. REFER TO WATER RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
9. EXISTING UTILITY ELECTRIC METER. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
10. BLOOM ENERGY SHALL FURNISH AND CONTRACTOR SHALL INSTALL DISCONNECT SWITCH. MOUNT DISCONNECT SWITCH TO THE WALL PER MANUFACTURER AND UTILITY SPECIFICATIONS.
11. CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
12. CONTRACTOR SHALL FURNISH AND INSTALL TWO GROUNDING RODS PLACED A MINIMUM OF 6' APART. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
13. CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL FEEDER. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
14. CONTRACTOR SHALL MOUNT CONDUIT/PIPE TO EXTERIOR WALL. COORDINATE EXACT ROUTING WITH CUSTOMER REPRESENTATIVE IN THE FIELD. REFER TO WALL MOUNTING DETAIL FOR ADDITIONAL REQUIREMENTS.
15. PROPOSED BLOOM ENERGY SERVER. REFER TO BLOOM ENERGY STANDARD INSTALLATION DRAWING SET FOR ADDITIONAL BLOOM ENERGY SERVER DETAILS.
16. FACTORY WIRED ENERGY SERVER EMERGENCY POWER-OFF SWITCH (EPO).
17. CONTRACTOR SHALL CORE CONDUIT AND/OR PIPE THROUGH WALL. SCAN WALL PRIOR TO CORING TO AVOID COLLATERAL DAMAGE TO EXISTING PLUMBING AND WIRING. REFER TO WALL PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS.
19. CONTRACTOR SHALL SAWCUT TRENCH IN ASPHALT AND CONCRETE SURFACE AREAS FOR UNDERGROUND UTILITIES AND HAND DIG TRENCHES WHERE THEY CROSS EXISTING UTILITIES. REFER TO UNDERGROUND/TRENCH CONDUIT AND PIPING DETAIL FOR ADDITIONAL REQUIREMENTS.
21. CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND UTILITY LINES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED LINES.
23. CONTRACTOR SHALL TRANSITION ALL ABOVE GROUND PROPOSED LINES TO UNDERGROUND TOWARD ANCILLARY EQUIPMENT. ABOVE GROUND UTILITIES SHALL BE PROTECTED AS NECESSARY, THEN ROUTED UNDERGROUND TO EQUIPMENT STUB-UP LOCATIONS PER MECHANICAL DETAILS.
30. CONTRACTOR SHALL FURNISH AND INSTALL LANDSCAPE RESTORATION. REFER TO LANDSCAPE RESTORATION DETAIL FOR ADDITIONAL REQUIREMENTS. IRRIGATION SHALL BE PROTECTED AND REMAIN OPERATIONAL DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR EXTENDING AND/OR REROUTING IRRIGATION LINES AS NECESSARY AND THE REPAIR/REPLACEMENT IF ANY DAMAGE OCCURS. COORDINATE IRRIGATION CONTROL WIRING MODIFICATIONS WITH OWNER REPRESENTATIVE.
31. CONTRACTOR SHALL SAWCUT AND REMOVE 920 SF EXISTING ASPHALT PAVEMENT AND EXTEND LANDSCAPE AREA TO CREATE EARTHEN BERM FOR PROPOSED EQUIPMENT. CONTRACTOR SHALL FURNISH AND INSTALL LANDSCAPE RESTORATION IN THIS AREA PER NOTE 30 ON THIS SHEET.

EXISTING UTILITY NOTE:
THE LOCATION OF EXISTING UTILITIES IS SHOWN FOR THE CONTRACTOR'S REFERENCE. EXACT LOCATION, DEPTH, AND SIZE OF ALL EXISTING UTILITIES IS NOT KNOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES NOT SHOWN ON THESE DRAWINGS. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND PROTECT THE EXISTING UNDERGROUND LINES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED UTILITIES OR PERFORMING EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPRESENTED HERON. SUCH CONDITIONS COULD RENDER THE DESIGNS HERON INAPPROPRIATE AND MAY REQUIRE ADJUSTMENTS TO AVOID CONFLICTS.

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CARSON TURNER, P.E.
LICENSE # 22700

CUSTOMER SITE

ASSA ABLOY INC.
100 SARGENT DR.
NEW HAVEN, CT 06511

ASSA ABLOY
The World's Leading Lock Group

RELEASE HISTORY

REV	ISSUE PURPOSE	DATE
–	INITIAL RELEASE	07/02/2024

DESIGNED BY KATE TAYLOR	REVIEWED BY CARSON TURNER
DRAWN BY MAHADEVA D K	APPROVED BY CARSON TURNER

SHEET TITLE

DETAILED SITE PLAN

DRAWING NUMBER

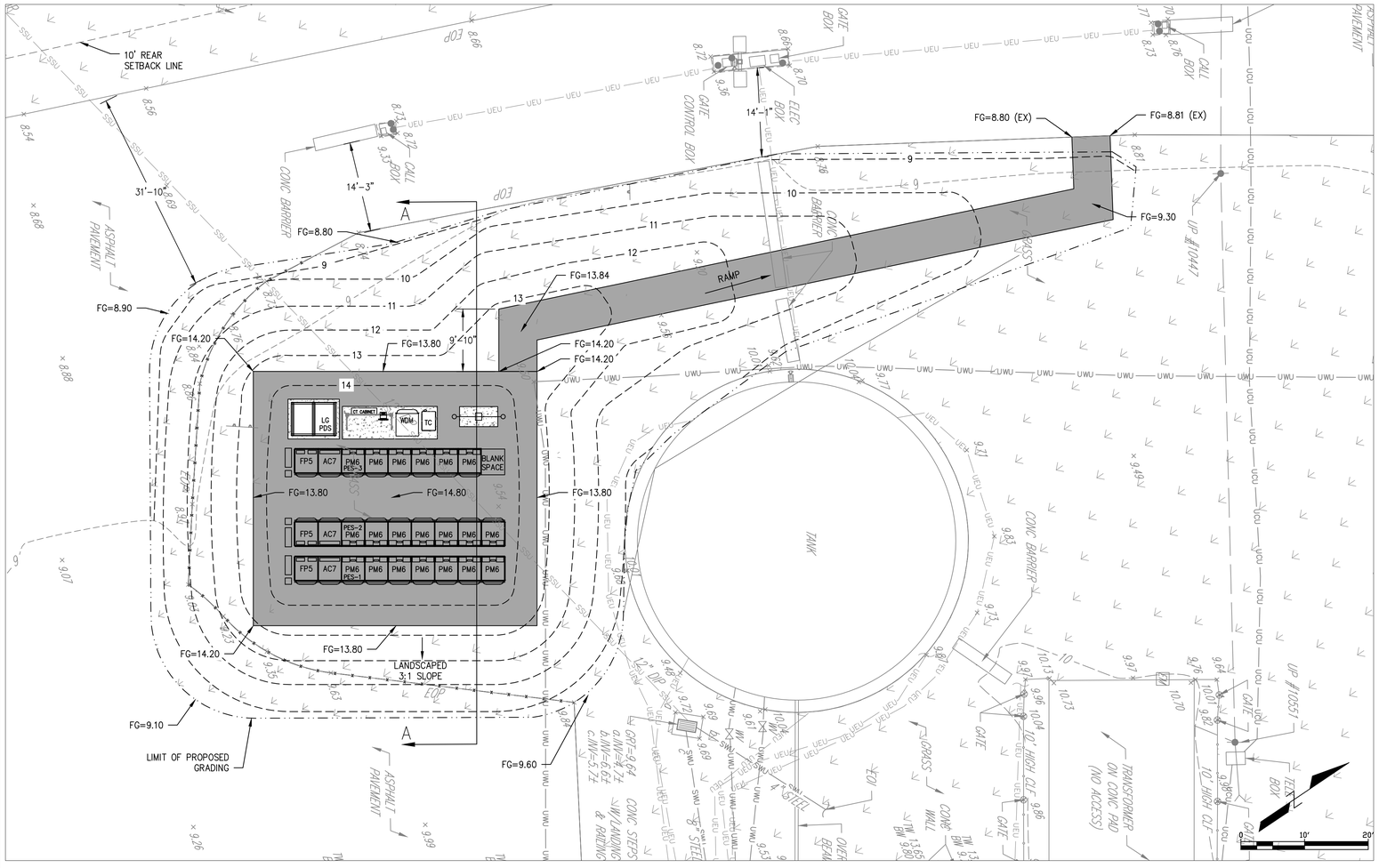
C1.1

BLOOM ENERGY DOCUMENT NUMBER

DOC-1017348

THIS DRAWING IS 24" X 36" AT FULL SIZE

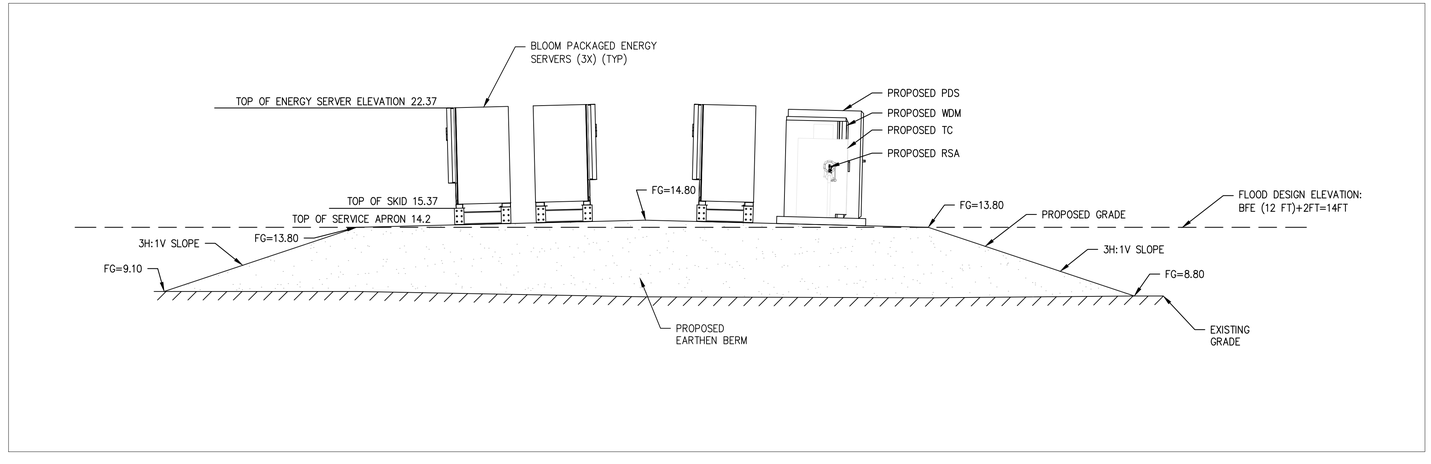
SITE ID: ABL000.0 | SHEET 04 OF 15



GRADING PLAN

SCALE: 1" = 10'

1 / C1.2



ELEVATION VIEW (A-A)

SCALE: 1" = 5'

2 / C1.2

LEGEND

EXISTING	PROPOSED	
		APPROXIMATE LIMIT OF GRADING
— —XXX— —	— —XXX— —	CONTOUR
x 208.02	x 206.0	SPOT ELEVATION
TC XXX.XX		TOP OF CURB
BC XXX.XX		BOTTOM OF CURB
TW XXX.XX		TOP OF WALL
BW XXX.XX		BOTTOM OF WALL
	TP XXX.XX	TOP OF PAD
	FG XXX.XX	FINISH GRADE
	SLOPE →	DIRECTION OF SLOPE
	TC	TOP OF CURB
	BC	BOTTOM OF CURB
	TBM	TEMPORARY BENCH MARK

NOTES:
1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, LOCAL AND OSHA GOVERNING RULES AND REGULATIONS. NO EXCEPTIONS.
2. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ELEVATIONS ARE BASED UPON GPS OBSERVATIONS UTILIZING THE KEYSTONE KEYNET NETWORK.

   TEMPORARY BENCHMARK SET:

   TBM-A: NAIL SET IN ASPHALT PAVEMENT ON THE SOUTHWESTERLY SIDE OF SUBJECT AREA. ELEVATION=8.55'
   TBM-B: NAIL SET IN ASPHALT PAVEMENT ON THE WESTERLY SIDE OF SUBJECT AREA. ELEVATION=8.85'

PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON G1.1 HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTIONS

3. SLOPES LINES SHOWN ARE APPROXIMATE AND INTENDED TO SHOW THE GENERAL DIRECTION OF WATER RUNOFF.
4. THIS GRADING LAYOUT SHALL SERVE AS GENERAL GUIDELINES FOR THE INTENT OF THE SITE. CONTRACTOR SHALL MAINTAIN 0.5% SLOPE AND MAXIMUM 2% SLOPE ACROSS ENERGY SERVER PADS, MAXIMUM 5% SLOPE FOR SERVICE AREA, AND MAXIMUM 3:1 (HORI TO VERTI) SLOPE FOR AREA BEYOND THE SERVICE AREA, MATCH EXISTING SLOPE DIRECTIONS AND MAINTAIN POSITIVE DRAINAGE.

SITE REFERENCES:
1. EXISTING SITE CONDITIONS TAKEN FROM TOPOGRAPHIC SURVEY ENTITLED "PARTIAL TOPOGRAPHIC AND UTILITY SURVEY" DATED 01/29/2024 BY CONTROL POINT ASSOCIATES, Inc.
2. AERIAL IMAGERY

CAUTION:
CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING NEAR EXISTING WET & DRY UTILITIES WITHIN THE PROJECT SITE AND WITHIN STREET RIGHT-OF-WAY. ALL EXISTING WET & DRY UTILITIES SHALL BE PROTECTED IN PLACE, MAINTAINED AND REPAIRED IMMEDIATELY IF DAMAGED. IN CASE OF DAMAGED WET & DRY UTILITIES, CONTRACTOR SHALL NOTIFY BLOOM ENERGY AND SHALL BEAR ALL COSTS ASSOCIATED WITH PERMITS AND NECESSARY REPAIRS, NO EXCEPTIONS.

FLOOD HAZARD AREA

THE PROPERTY IS SITUATED IN A COASTAL A ZONE. FLOOD ZONE AE. THE BASE FLOOD ELEVATION AT THE INSTALL AREA IS FLOOD ZONE AE, ELEVATION 12.0', WITHIN THE LIMIT OF MODERATE WAVE ACTION (LiMWA) AS SHOWN ON THE EFFECTIVE FEMA FIRM NO. 09009C0441J, EFFECTIVE ON 7/8/2013, PANEL 441 OF 635.

ALL EQUIPMENT SHALL BE ELEVATED 2' ABOVE THE BASE FLOOD ELEVATION. ALL UNDERGROUND UTILITIES SHALL BE FLOOD PROOFED. PLEASE SEE THE GRADING PLAN FOR DETAILED ELEVATION INFORMATION.

ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERITCAL DATUM OF 1988 (NAVD88).

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REV	ISSUE PURPOSE	DATE
–	INITIAL RELEASE	07/02/2024

DESIGNED BY KATE TAYLOR	REVIEWED BY CARSON TURNER
DRAWN BY MAHADEVA D K	APPROVED BY CARSON TURNER

SHEET TITLE
GRADING PLAN

DRAWING NUMBER
C1.2

BLOOM ENERGY DOCUMENT NUMBER
DOC-1017348

THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: ABL000.0	SHEET 05 OF 15

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Exhibit 4

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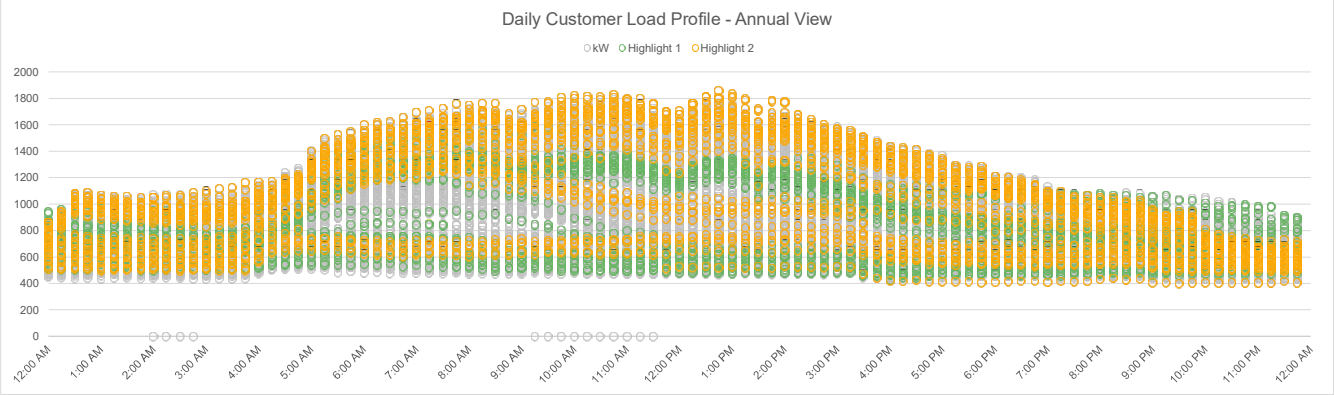
SITE DETAILS	
Utility Tariff	CT - UI GST-S-GRT Credit
Customer Name	0
Site Name or Address	0
Utility Account Number	
Meter Number	445552060, 537715039
NOTES	
[Notes here]	

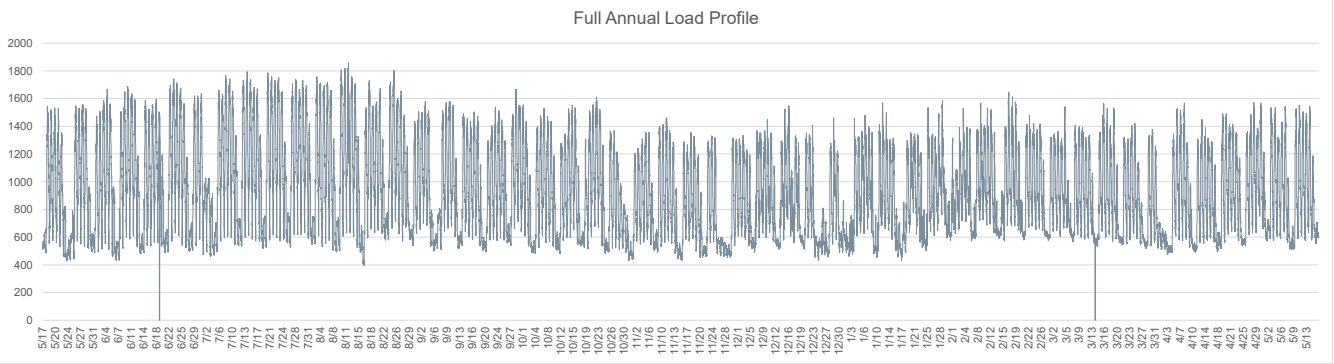
0 - 0 (Acct ; Meter 5039) - New Sizing Tool

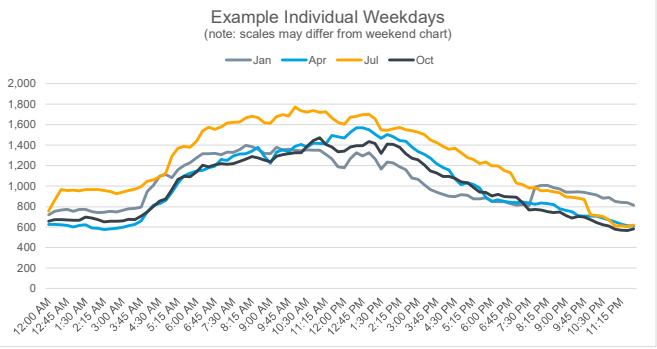
SIZING SUMMARY		
Total Days of Complete, Non-Zero Data	365	
Annual Load Factor	50%	
Total Customer Usage	8,071,192	kWh
Average 15-Min kW	922	kW
Average Peak Demand	1,633	kW
Absolute Minimum kW (non-zero)	***397***	***kW***
Estimated Average Baseload	***750***	***kW***
Proposed System Size	***900***	***kW***
Estimated Resulting Net Metering	***11.69%***	

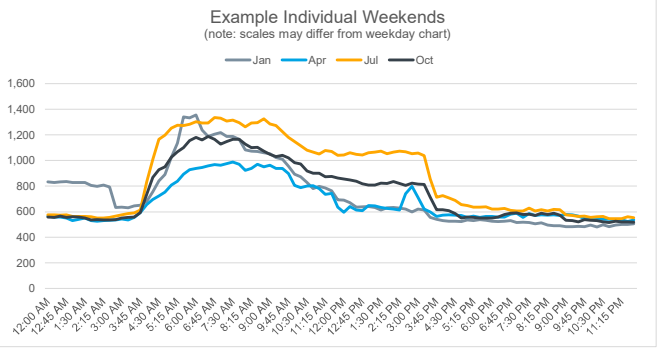
POWER FACTOR SUMMARY [NOT PRINTED]
Power Factor from Customer Bill
kVars at Peak Demand
Inverter Nameplate Required

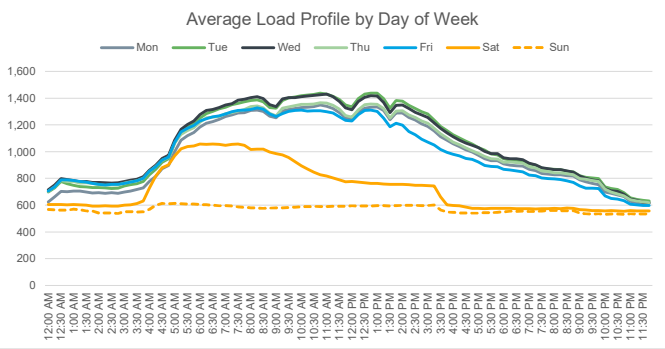
MONTH	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Highlight Color (0/1/2)	1	0	0	0	0	0	0	2	0	0	0	0











Bloomenergy®

Data Sheet

The Bloom Energy Server

Model Number: ES6-XXXXXXXXXXX-XXXXXX[6]

Specifications

Outputs

Nameplate power output (net AC)	Refer to the System Power Ratings Table[7]
Load output (net AC)	Refer to the System Power Ratings Table[7]
Voltage	3-ph, 480, 415, 400 and 380 V
Frequency	50/60 Hz

Inputs

Fuel[1]	Natural gas
Input fuel pressure	12–18 psig (15 psig nominal)
Water	None during normal operation

Efficiency

Cumulative electrical efficiency	65–53% (LHV net AC)[2]
Heat rate (HHV)	5,811–7,127 Btu/kWh
Cumulative thermal efficiency	35–40%
Total efficiency	85-90%

Emissions[3]

NOx	0.003 lbs/MWh
SOx	Negligible
CO	0.013 lbs/MWh
VOCs	0.01 lbs/MWh
CO_2 @ stated efficiency	679–833 lbs/MWh

Physical Attributes and Environment

Weight	Refer to the System Power Ratings Table[7]
Dimensions	Refer to the System Power Ratings Table[7]
Temperature range	-20 °C to 45 °C
Humidity	0%–100%
Seismic vibration	ASCE7 SDC (Seismic Design Category) D
Location	Outdoor
Noise	<65 dBA @ 10 ft

Codes and Standards

Safety	FC1, UL 1741, UL 1741 SB, UL 1998, CE
EMC	EN 5501/KN11, EN 61000, KN32, KN35
Grid Interconnection	IEEE 1547 2018, CA Rule 21, CEI 016, KEPCO, G99 C10/11[4], VDE[4]

Meets stringent CARB 2007 Distributed Generation emission standards.

An Energy Server is a Stationary Fuel Cell Power System. It is Listed by UL Solutions (UL LLC) as a 'Stationary Fuel Cell Power System' to ANSI/CSA FC1-2014 under UL Category IRGZ and UL File Number MH45102.

1. Please contact Bloom Energy for information on using biogas, blended hydrogen and hydrogen fuels with the Energy Server
2. 65% LHV efficiency verified by ASME PTC 50 Fuel Cell Power Systems Performance Test
3. NOx and CO measured per CARB Method 100, VOCs measured as hexane by SCAQMD Method 25.3
5. Certifications expected to be available in 2024
6. X may be any number or letter.
7. Refer to your system's model number and the model number key in the following table for the nameplate, sales power rating, weight, and dimensions of the system

Additional Benefits

Access to a secure website to monitor system performance & environmental benefits. Remotely managed and monitored by Bloom Energy. Capable of emergency stop based on input from the site.

Bloom Energy Headquarters
4353 North First Street
San Jose, CA 95134 USA

bloomenergy.com

Flexible. Future Proof.

Accelerate your path to a zero-carbon future.

System Power Ratings

System Model Number	Nameplate Power Output (net AC) (kW)	Load Output (net AC) (kW)	Dimensions (Linear)	Dimensions (Back to Back)	Dimensions w/ Skid (Linear)	Weight (ton)	Weight w/ Skid (ton)
ES6-0500XXXXXXX-XXXXXX	50	50	18'4" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	8.4	10.7
ES6-0550XXXXXXX-XXXXXX	55	55	18'4" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	8.4	10.7
ES6-0600XXXXXXX-XXXXXX	60	60	18'4" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	8.4	10.7
ES6-0650XXXXXXX-XXXXXX	65	65	18'4" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	8.4	10.7
ES6-0700XXXXXXX-XXXXXX	70	70	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-0750XXXXXXX-XXXXXX	75	75	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-0800XXXXXXX-XXXXXX	80	80	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-0850XXXXXXX-XXXXXX	85	85	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-0900XXXXXXX-XXXXXX	90	90	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-0950XXXXXXX-XXXXXX	95	95	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-1000XXXXXXX-XXXXXX	100	100	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-1050XXXXXXX-XXXXXX	105	105	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-1100XXXXXXX-XXXXXX	110	110	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-1150XXXXXXX-XXXXXX	115	115	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-1200XXXXXXX-XXXXXX	120	120	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-1250XXXXXXX-XXXXXX	125	125	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-1300XXXXXXX-XXXXXX	130	130	22'0" x 4'5" x 7'1"	11'0" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	9.2	11.5
ES6-1350XXXXXXX-XXXXXX	135	135	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1400XXXXXXX-XXXXXX	140	140	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1450XXXXXXX-XXXXXX	145	145	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1500XXXXXXX-XXXXXX	150	150	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1550XXXXXXX-XXXXXX	155	155	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1600XXXXXXX-XXXXXX	160	160	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1650XXXXXXX-XXXXXX	165	165	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1700XXXXXXX-XXXXXX	170	170	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1750XXXXXXX-XXXXXX	175	175	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1750XXXXXXX-XXXXXX	175	175	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1800XXXXXXX-XXXXXX	180	180	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1850XXXXXXX-XXXXXX	185	185	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1900XXXXXXX-XXXXXX	190	190	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-1950XXXXXXX-XXXXXX	195	195	25'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	12	14.3
ES6-2000XXXXXXX-XXXXXX	200	200	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2050XXXXXXX-XXXXXX	205	205	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2100XXXXXXX-XXXXXX	210	210	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2150XXXXXXX-XXXXXX	215	215	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2200XXXXXXX-XXXXXX	220	220	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2250XXXXXXX-XXXXXX	225	225	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2300XXXXXXX-XXXXXX	230	230	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2350XXXXXXX-XXXXXX	235	235	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2400XXXXXXX-XXXXXX	240	240	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2450XXXXXXX-XXXXXX	245	245	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2495XXXXXXX-XXXXXX	249.5	249.5	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2500XXXXXXX-XXXXXX	250	250	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2550XXXXXXX-XXXXXX	255	255	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2600XXXXXXX-XXXXXX	260	260	29'4" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2650XXXXXXX-XXXXXX	265	265	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	14	16.3
ES6-2700XXXXXXX-XXXXXX	270	270	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-2750XXXXXXX-XXXXXX	275	275	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-2800XXXXXXX-XXXXXX	280	280	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-2850XXXXXXX-XXXXXX	285	285	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-2900XXXXXXX-XXXXXX	290	290	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-2950XXXXXXX-XXXXXX	295	295	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-3000XXXXXXX-XXXXXX	300	300	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-3050XXXXXXX-XXXXXX	305	305	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-3100XXXXXXX-XXXXXX	310	310	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-3150XXXXXXX-XXXXXX	315	315	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-3200XXXXXXX-XXXXXX	320	320	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-3250XXXXXXX-XXXXXX	325	325	33'0" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	33'0" x 4'5" x 8'3"	15.6	17.9
ES6-3300XXXXXXX-XXXXXX	330	330	36'8" x 4'5" x 7'1"	18'4" x 8'10" x 7'1"	36'10" x 4'5" x 8'3"	17.4	19.7
ES6-3350XXXXXXX-XXXXXX	335	335	36'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	36'10" x 4'5" x 8'3"	17.4	19.7
ES6-3400XXXXXXX-XXXXXX	340	340	36'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	36'10" x 4'5" x 8'3"	17.4	19.7
ES6-3450XXXXXXX-XXXXXX	345	345	36'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	36'10" x 4'5" x 8'3"	17.4	19.7
ES6-3500XXXXXXX-XXXXXX	350	350	36'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	36'10" x 4'5" x 8'3"	17.4	19.7
ES6-3550XXXXXXX-XXXXXX	355	355	36'8" x 4'5" x 7'1"	14'8" x 8'10" x 7'1"	36'10" x 4'5" x 8'3"	17.4	19.7

*Weights and dimensions indicate the maximum possible values for a fully populated Energy Server

Bloom Energy Headquarters 4353
North First Street
San Jose, CA 95134 USA
bloomenergy.com

Looking east toward Facility location (to right of water tank)

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Exhibit 5

Legend

- Site
- Project Area
- CTDEEP Watercourse
- CTDEEP Natural Diversity Database (updated June 2024)
- CTDEEP Critical Habitat (Oct 2019)
- CTDEEP Wetlands
- FEMA 100-Year Flood Zone
- FEMA 500-Year Flood Zone
- Floodway
- CTDEEP Coastal Boundary
- Approximate Assessor Parcel
- Municipal Boundary

Map Notes:
Not All Legend Items May Be Located Within Map Extent
Base Map Source: CTECO 2019 Aerial Photograph
Map Scale: 1 inch = 500 feet
Map Date: July 2024

N

500 250 0 500 Feet

Exhibit 5
Environmental Resources

Proposed Bloom Energy Facility
Assa Abloy
100 Sargent Drive
New Haven, Connecticut

Bloomenergy®

ALL-POINTS TECHNOLOGY CORPORATION

Bloomenergy®

Exhibit 6

Fire Prevention and Emergency Planning – Grid Parallel

Bloom Energy Corporation, 1299 Orleans Drive, Sunnyvale, CA 94089 USA

Table of Contents

1. Fire Prevention and Emergency Planning Overview

2. Fuel Cell Installation Safety Features

3. Emergency Notification Procedures

4. Fire and Smoke Procedures

5. Medical Emergency Procedures

6. Materials Release Procedures

7. Natural Disasters and Severe Weather
   - 7.1 Earthquake
   - 7.2 Flood

8. Utility Outage

9. Good Housekeeping and Maintenance
   - 9.1 Good Housekeeping
   - 9.2 Maintenance

10. Training

1. FIRE PREVENTION AND EMERGENCY PLANNING OVERVIEW

The following document is provided only as a guide to assist you in complying with national and local codes and requirements, as well as to provide other helpful information. It is not intended to supersede the requirements of any standard. You should review the standards for particular requirements that are applicable to your individual situation, and make adjustments to this program that are specific to your company. You will need to add information relevant to your facility in order to develop an effective, comprehensive program.

2. FUEL CELL SYSTEM INSTALLATION SAFETY FEATURES

The fuel cell system has redundant safety features and in-system checks to ensure that the system will not harm certified technicians or bystanders near the unit. While the actual fuel cells operate at high temperatures, these components do not move, and are contained within many layers of insulation. During normal operation, the unit is cool to the touch and operates quietly.

The fuel cell system is controlled electronically and has internal sensors that continuously measure system operation. If safety circuits detect a condition outside normal operating parameters, the fuel supply is stopped and individual system components are automatically shut down. A Bloom Energy Remote Monitoring and Control Center (RMCC) operator can also remotely initiate any emergency sequence. An Emergency Stop alarm condition initiates an automatic shutdown sequence that puts the fuel cell system into ―safe model‖ and causes it to stop exporting power. If you have questions about any of these safety features, please contact Bloom Energy.

If you have to shut down your fuel cell system right away—for example, in case of a building fire or electrical hazard—three shutoff controls are installed at your facility external to the system. The locations of these three controls should be known to your facilities manager before operation, and should be noted on your facility diagram that you created with your Bloom Energy account manager. The three shutoffs are the **EPO button**, the **electrical disconnect**, and the **natural gas shutoff valve**.

- An **Emergency Power Off (EPO) Button** cuts all power to all systems and stops them from exporting power to your building. All natural gas flow is also stopped within the systems. (The EPO button is on the front/side of the EDM, if an EDM is installed.) Lift the protective cover and break the glass seal that covers the button with the attached hammer. After the glass seal is broken, the shutdown sequence will automatically begin.

Figure 1: Emergency Power Off Button

- An **electrical disconnect** manually disconnects systems from the grid if needed. Pressing the EPO button should already stop any power transmission, but it does not hurt the systems to also open this disconnect if you believe it is needed. The location of this disconnect will vary, however it is typically located near the point of interconnection where the wires from the fuel cell installation meet the facility's electrical framework. This may be inside your facility's electrical room, or if the fuel cell installation is near the electrical room, it may be found within the switchgear that Bloom Energy installs. This location of this disconnect is shown on the Site Map (see below) and is labeled "(name of electrical utility) Lockable Visible Generator Disconnect Switch".


Figure 2: Electrical Disconnect

- A **manual natural gas valve** shuts down all natural gas to the system. If the valve operator is perpendicular to the pipe, the valve is shut. If it is parallel with the pipe, the valve is open.

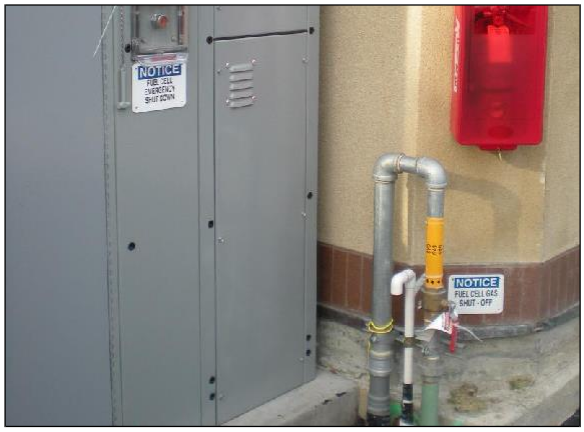

Figure 3: Manual Natural Gas Valve

Site map:

- An overhead site map showing the location of all safety features will be posted throughout the fuel cell installation
- Electronic copies are available to you for use in your site planning

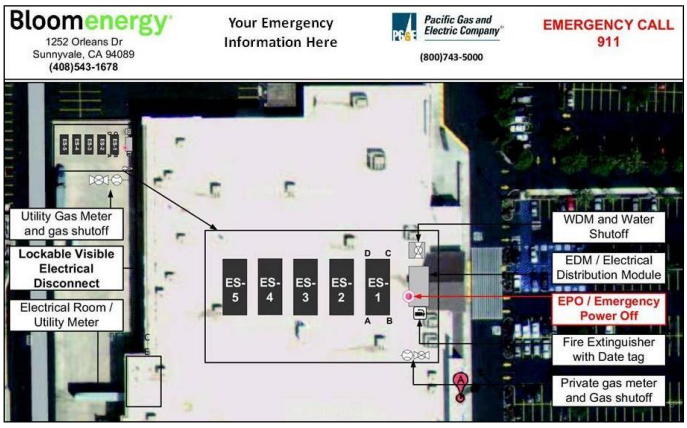

Figure 4: Sample Site Map

Manual controls:

- Clearly marked emergency stop button labeled —Fuel Cell Emergency Shut Downll located at site
- Two manual fuel shutoff valves outside the system, and two isolation valves inside the system

Fire hazard mitigation:

- System is plumbed directly to utility-provided natural gas
- If system input gas pressure is compromised, a pressure switch triggers an emergency system shutdown and fuel input is isolated
- System does not use fuel compressors or pumps
- System has virtually no stored fuel (internal capacity is < 5 scf)

Electrical hazard and mitigation:

- System operates at 480V
- Signs inside the system warn of the risk of electric shock
- System has backfeed protection
- System inverter prevents grid backfeed during a power outage

Mechanical hazard and mitigation:

- Finger/hand guard protection is provided on all fans
- All moving parts are located behind secured doors

Material hazard mitigation:

- Desulfurizer bed (to remove fuel impurities) are fully enclosed
- Maintained and serviced by licensed vendors

3. EMERGENCY NOTIFICATION PROCEDURES

Life-Threatening Emergencies

To report life-threatening emergencies, immediately call:

Fire:	**911**
Ambulance:	**911**
Police:	**911**

Conditions that require automatic emergency notification include:

- Unconscious Victim
- Seizure
- Major Trauma
- Chest Pains
- Difficulty Breathing
- Flames

Non-Life-Threatening Emergencies

For non-life-threatening emergencies, report the incident to the local safety control center.

When you report an emergency, give the following information:

- Exact nature of the emergency (describe as clearly and accurately as possible).
- Exact location (i.e., address, building, floor, area, department, etc.).
- Telephone number from which you are calling.
- Your full name.
- ***Do not hang up***, as additional information may be needed.

To assist in any subsequent investigation or determination of corrective actions, it is recommended to record the following items as close to the incident time as possible:

- Summary of any violation

- Identification of responsible parties
- Identification of victims and witnesses
- Description of evidence
- Description of general conditions
- Description of any vehicles involved
- Narratives from witnesses
- Any photographs

4. FIRE OR SMOKE PROCEDURES

This section describes the procedures involving a fire or smoke. A major fire is one that requires the use of more than one fire extinguisher or takes more than one minute to extinguish.

If you discover a fire or smoke:

1. Activate the nearest fire alarm if not activated already.
2. Activate the fuel cell Emergency Stop if possible.
3. Shut off the fuel cell installation natural gas line if possible.
4. If the fire is small and does not pose an immediate risk to personal safety, you may attempt to extinguish it with a portable fire extinguisher **only if trained to do so.**
5. Avoid using water on electrical fires.
6. Report every fire, regardless of size, immediately. Smoke or the smell of smoke should be reported.
   - From a safe location dial **911**.
   - Report the incident to the local security safety center.

5. MEDICAL EMERGENCY PROCEDURES

This section describes the necessary procedures for injuries or illnesses that may occur under extreme conditions.

A serious injury can be life-threatening and will require immediate medical attention. Injuries can include head injuries, spine injuries, broken bones, heart attack, stroke, loss of consciousness, excessive bleeding, chemical exposure, etc.

A non-serious injury is not immediately life-threatening but may still require the attention of a medical doctor. These can include headaches, nausea, itching, cuts, burns, etc.

Life-Threatening Medical Emergency

1. Remain calm.
2. Immediately dial 911.
3. Report the incident to local security safety center.
4. Do not move the victim unless it is absolutely necessary.
5. Call out for personnel trained in first aid and/or CPR which may include Building Evacuation or Emergency Response team members.

6. Ask someone to bring the area first aid kit and Automated External Defibrillator.
7. Assist if capable or asked to do so.

Non-Life-Threatening Medical Emergency

1. Remain calm.
2. Report the incident to the local security safety center.
3. Do not move the victim unless it is absolutely necessary.
4. Call out for personnel trained in first aid.
5. Ask someone to bring the area first aid kit.
6. If the victim requires further medical attention, then direct them to the nearest approved medical clinic or hospital – Contact Security or Human Resources for assistance if needed.
7. The injured employee's supervisor/manager is responsible for ensuring injury forms are properly filled out. Complete the forms within 24 hours of incident and submit to the injury reporting system for follow-up. Follow company protocols.

6. MATERIALS RELEASE PROCEDURES

The fuel cell system does not pose a hazard to health or environment. However, some internal materials when released, may pose a irritation risk to people and a possible risk of fire if not properly handled. This section was designed to address potential material release events:

In case of a material release that poses a direct threat to health, safety, or the environment:

1. Report the incident to local safety/security office.
2. If extremely life-threatening immediately dial **911** followed with a call to Security.
3. Contain the spill.
4. Evacuate the area or building if the material release is determined to be life-threatening.

In the event of an unknown indoor smell or odor, report the incident to authorities responsible for HAZMAT and spills.

7. NATURAL DISASTERS AND SEVERE WEATHER

7.1 Earthquake

This section provides information and procedures for earthquake emergencies.

The fuel cell system is designed to automatically shut off if the natural gas supply is compromised.

The natural gas supply line has an external, manual shut-off valve that should be activated if it is safe to do so. This valve will be labeled, "Notice – Fuel Cell Gas Shut

Off". The natural gas line will be labeled with the word "gas" on a yellow background with an arrow pointing in the direction of flow.

The nearby Emergency Stop can be activated to stop the flow of fuel and power to/from the fuel cell system.

A Bloom Energy Field Engineer will validate site safety and system operation during/after severe weather as necessary.

7.2 Flood

The fuel cell system support pad is designed to divert water flow. However, if flooding conditions exist, or threaten to exist due to heavy rainfall, creek bank overflows, or pipe breakage, then immediately report the incident to the local safety/security office.

Do not use the fuel cell power system if any part has been under water. If it is safe to reach the Emergency Power Off button for the site without entering the water, stop all systems until a Bloom Energy representative can assess the site.

Precautions to follow after a flood:

- Stay out of flooded areas. Flooded areas remain unsafe. Entering a flooded area places you at risk.
- Notify Bloom Energy. A Bloom Energy Field Engineer will validate site safety and system operation during/after severe weather as necessary

8. UTILITY OUTAGE

The fuel cell system is operated in "Grid-Parallel" mode. If utility provided power is lost for any reason, the fuel cell system will go "off-line". The fuel cell system will remain in stand-by mode until it automatically senses the utility grid has been restored. If utility gas is shut down, the fuel cell system will begin to shut down completely.

The Bloom Energy Remote Monitoring Control Centers monitor the fuel cells 24 hours per day and will be alerted to utility grid interruptions via its controls software. A Field Service Engineer will be dispatched to restart the fuel cell system if necessary. Customer personnel should NOT attempt to start up or operate the fuel cell system.

Before a Planned Outage

- Notify the Bloom Energy Remote Monitoring Control Center at 1-408-543-1678 at least 24 hours before planned outage.
- Bloom Energy Remote Monitoring Engineers will reduce power generated by the fuel cell system and take the fuel cell off-line.
- Abrupt fuel cell system shutdowns may cause significant system damage.

During a Utility Power Loss

- The fuel cell system will automatically go off-line.
- The Bloom Energy Remote Monitoring Control Centers will monitor the fuel cell system.
- Bloom Energy Field Service will be dispatched to start up the fuel cell system as necessary.
- If the fuel cell system has been automatically shut down and utility power is restored, there will be no impact to building power delivery: primary power will come from the utility rather than the fuel cells.

9. GOOD HOUSEKEEPING AND MAINTENANCE

9.1 Good Housekeeping

Although extremely unlikely, to minimize the risk of fire and any incidents, Facility Managers should take the following precautions around the fuel cell installation:

- What to do if you smell gas:
  - Do not try to light any appliance
  - Do not touch any electrical switch; do not use any phone in the area
  - Leave the area immediately
  - Immediately call your gas supplier. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department

- Notify Bloom Energy Remote Monitoring Control Center at 1-408-543-1678 of any condition that would impair the safety of the fuel cell installation so that mitigation measures could be determined and placed into effect.
- Prohibit smoking within the area of the fuel cell installation. Bloom Energy will furnish No Smoking signs for the area.
- Ensure only Bloom Energy Service Providers are permitted access inside the system.
- Keep the area around the fuel cell installation clear for ten feet in all directions, for safety and ease of maintenance.
- Keep the area around the fuel cell power system clear and free of combustible materials, gasoline, and other flammable vapors and liquids.
- Shut the system down and call Bloom Energy immediately if you suspect a fuel line rupture.
- **Never enclose an operating system** in a tarp, tent, shed, or other structure that would allow air to become trapped. This system runs on natural gas, and produces trace amounts of CO and CO2. The amounts of these gases are safe for normal outdoor operation but could gather in an enclosed place.
- Do not block or obstruct air openings on the fuel cell power system. This system requires air flow in order to operate.

- Do not use this fuel cell power system if any part has been under water. Immediately call qualified service personnel to inspect the fuel cell power system and to replace any functional part which has been under water.
- Please contact Bloom Energy at 408-543-1678 with as much advance notice as possible if you plan, detect, or suspect a prolonged Internet outage.
- The Bloom Energy Field Service team will periodically clean the equipment; do not spray with pressurized hoses.

9.2 Maintenance

Your site has specific Field Service personnel assigned to it for both routine maintenance and troubleshooting. Your site project manager will introduce you to the designated Bloom Energy Field Service team assigned to your site prior to operation.

Bloom Energy Field Service personnel are trained in state Safety Law. They are trained in all the procedures required for the fuel cell installation, and their toolkit includes all the safety equipment required to work around the fuel components and high voltage in our system (480VAC).

Bloom Energy also requires its employees to follow all necessary safety precautions, including:

- Every time a Field Service technician arrives at a site for the first time and opens a service panel, the technician will use a leak detector to determine whether there is any gas buildup in the system and determine that it is safe to work on it.
- Whenever a Field Service technician is removing and replacing a component on a fuel or exhaust line, the technician must keep a CO detector nearby to make sure that no CO is present in the line even after the system has been shut down.

The Field Service team expects to conduct quarterly and yearly preventative maintenance for certain types of consumable or cleanable components such as replacement of air filters, water filters, and desulfurizer beds. Other maintenance will be performed as required. During such times, inspections for any hazards will be conducted including quarterly fire extinguisher inspection (if applicable).

10. TRAINING

Prior to system startup, a Bloom Energy representative will provide training on the fuel cell installation to include the location and operation of safety features as well as actions to take during emergencies. We desire this training to provide lasting value and are more than happy to work with you to customize the experience to suit your needs.

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Exhibit 7

Veneklasen Associates
Consultants in Acoustics | Noise | Vibration | AV | IT

March 5, 2024

Bloom Energy
4353 North 1st Street
San Jose, California 95134

Attention: **Brandon Leaverton | Supply Chain Specialist – Construction**

Subject: **ABL000.0 ASSA ABLOY; New Haven, Connecticut**
Property Line Noise Analysis
Veneklasen Project No. 4631-053

Dear Brandon:

Veneklasen Associates, Inc. (Veneklasen) was contracted to evaluate noise impact of proposed fuel cells for the subject project in New Haven, Connecticut. This report includes measured noise levels at adjacent property lines and an evaluation of necessary mitigation, if warranted, to comply with the local noise ordinance in the surrounding community. This report documents our acoustical comments.

Noise Criteria

The City of New Haven, Connecticut Code of Ordinances, Chapter 18, Section 18-75 "Noise Levels" provides property line noise level limits per land use. These are summarized in Table 1. Note that these noise limits are identical to those specified in the State of Connecticut Statutes Chapter 442 "NOISE POLUTION CONTROL", Section 22a-69-3.5. The emitter and receptor classes as defined in the State noise code are also included in the table below in parentheses.

Table 1. City of New Haven Permissible Property Line Noise Levels

Emitter Zone	Maximum Permissible Noise Level, dBA			
	Residential (Class A), Day	Residential (Class A), Night	Commercial (Class B)	Industrial (Class C)
Residential (Class A)	55	45	55	62
Commercial (Class B)	55	45	62	62
Industrial (Class C)	61	51	66	70

Furthermore, the City ordinance language states the following:

> *If background noise levels caused by sources not subject to these regulations exceed the standards contained herein as amended from time to time, a source shall be considered to cause excessive noise if its emission exceeds the background noise levels by five (5) decibels, provided that no source subject to this article shall emit noise in excess of eighty (80) decibels at any time, and provided that this section does not decrease the permissible levels of other sections of this chapter as amended from time to time.*

State noise code provides identical allowances for existing ambient noise levels.

In the following analysis, fuel cell noise levels are compared to the applicable limits described above as well as existing daytime ambient noise levels measured by Veneklasen. According to the City of New Haven Zoning Map, the closest sensitive receptors are all zoned as light industrial (IL).

Veneklasen assumes proposed fuel cells will run 24 hours per day.

Existing Site Conditions

Veneklasen visited the site on March 4, 2024 to take ambient noise measurements from 8AM to 1PM. The primary sources of existing noise were traffic noise from the I-95 freeway nearby and other industrial sound sources. The goal of the measurements was to establish existing ambient noise levels for which the noise generated by the equipment will be compared against. Measurement locations are shown in Figure 1, and the results are shown in Table 2.

Figure 1. Measurement Locations and Sensitive Receptors

Table 2. Measured Ambient Noise Levels

Location	Average Ambient Noise Levels, dBA
S1	61
S2	64
S3	64

Measured ambient noise levels are lower than industrial-to-industrial noise level limits, shown in Table 1 above. Therefore, fuel cell noise levels will be compared to City limits rather than existing ambient levels in the following section.

Property Line Noise Analysis

Drawings dated February 1, 2024 indicate that proposed fuel cells will be installed on the western edge of the property. Proposed fuel cells are shown in green in Figure 1. Additionally, the nearest receptors are annotated in blue.

The current fuel cell installation method includes a foam dampening material that is installed at the doors and exhaust to the fuel cells. Measurement data of these units when compared to units without foam indicate that the foam compound reduces noise levels produced by the fuel cells by approximately 5 decibels. See Appendix A below for fuel cell sound power data and foam compound reduction data used in the following analysis.

SoftNoise Predictor version 2023.01 environmental noise modelling computer software was utilized to calculate fuel cell noise levels at the nearby residences. The calculated fuel cell noise levels as compared with City noise level limits are presented in Table 3 below. Note that the reported distances between property lines and the fuel cells are taken from the closest face of the fuel cell nearest to the associated property line.

Table 3. Fuel Cell Property Line Noise Levels: No Mitigation

Sensitive Receptor	Distance from Fuel Cell, ft	Applicable Noise Limit, dBA	Calculated Fuel Cell Noise Level, dBA	Code Compliant?
MTA Metro Yard	110	70	44	Yes
150 Sargent Drive	625	70	29	Yes
90 Sargent Drive	610	70	31	Yes

As shown in the table above, fuel cell noise levels at all receptors will meet allowable City noise limits. Mitigation is therefore not required.

Summary

Veneklasen has reviewed the subject project proposed fuel cell property line noise levels as they pertain to the applicable design goals. The City of New Haven provides applicable noise limits for different types of emitter and receptor land uses. For the subject project, both are zoned as Light Industrial land. Measurements were conducted at the site to determine existing ambient noise levels, though these were much lower than applicable City property line noise limits.

As currently designed, fuel cell noise levels comply with City requirements at all surrounding properties analyzed. No mitigation is required to comply with municipal requirements.

If you have any questions, please do not hesitate to call.

Sincerely,
Veneklasen Associates, Inc.

Kevin Patterson
Senior Associate

John LoVerde, *FASA*
Principal

Appendix A – Sound Power Levels

Sound power data was taken from the Mei Wu Acoustics (MWA) Report titled "Bloom Energy – ES5 Linear Sound Power Measurement", dated June 21, 2016. These reported levels were measured without the sound dampening foam described above.

Table 4. Fuel Cell Measured Sound Power Levels

Dampening Product Installed?	Measured Sound Power Level [dB] – 1/1 Octave Bands							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	LwA
No	77.9	80.9	84.1	82.3	80.5	76.9	69.4	84.9
Yes	77.9	80.9	81.0	77.9	73.7	67.2	64.8	79.3

In a study conducted at an existing installation of the fuel cell systems, measurements were taken of the fuel cell banks with and without the dampening product. The Noise Reduction (NR) of the dampening product was calculated by taking the difference of these measured values at octave band frequencies. Note that no significant reduction was shown at the 63 Hz and 125 Hz bands. The modified sound levels for the fuel cells that were utilized in calculations shown in this report are shown in Table 4.

Table 5. Measured Sound Dampening Foam Mitigation

Condition	Measured Sound Pressure Level [dB] @10ft – 1/1 Octave Band				
	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
No Foam	70.8	66.8	65.5	62.4	53.6
Foam	67.8	62.5	58.7	52.8	49.0
Difference (NR)	3.1	4.4	6.8	9.7	4.6

Appendix B – Calculation Methods

Sound level attenuates over distance by a factor of -6 dB per doubling of distance. For example, if a sound source was measured to be 60 dBA at a distance of 10 feet, the measured sound level at 20 feet would be 54 dBA. Sound level reduction due to distance is calculated according to the following equation:

$$L_p = L_w + 10\log_{10} Q - 20\log_{10} d - 0.7$$

Where:
d = The distance between the center of the fuel cell unit to the property line in feet.
L_p = The sound pressure level at a distance *d* in decibels.
L_w = The sound power level from the fuel cell. Sound power levels are reported above in Appendix A in decibels.
Q = The directivity factor which dictates how sound radiates outward from the source. See Figure 2 below from the 2015 American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) Handbook, Chapter 48 describing *Q* factors and their associated sound radiation patterns.

Figure 2. ASHRAE Handbook: Q Factor Sound Radiation Patterns

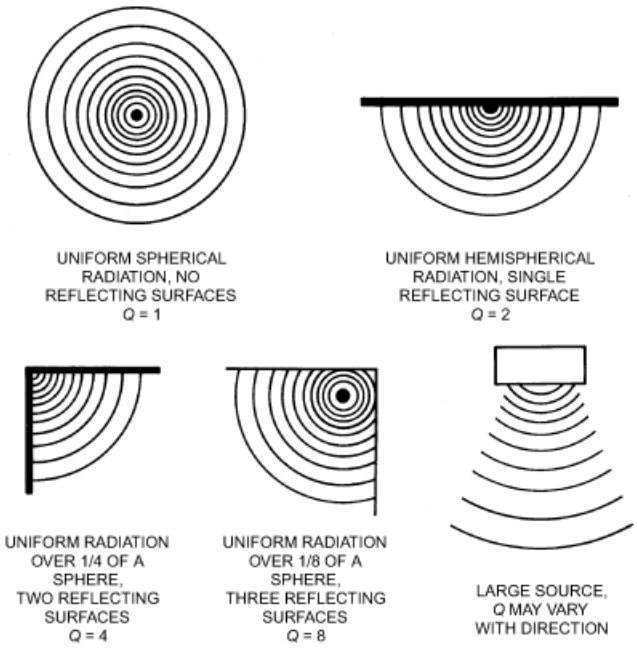

Fig. 30 Directivity Factors for Various Radiation Patterns

In the equation above, the greater the distance away from the sound source (*d*), the lower the sound level. This is intuitive and most people would consider this common knowledge.

In general, the more reflecting surfaces there are adjacent to a noise source, the more sound will bounce off these surfaces and radiate outward. In other words, larger *Q* factors will increase the noise level. For example, a fuel cell sitting on the ground, with nothing else around, would have a *Q* factor of 2 because the ground that the fuel cell is sitting on acts as a single reflecting surface. Another example would be a fuel cell sitting on the ground with a retaining wall on one side of it; this system would have a *Q* factor of 4 because both the ground and the retaining wall act as reflecting surfaces. A doubling of the *Q* factor increases the receiver noise level, L_p, by 3 dB.

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Exhibit 8

OFFICIALS

Name	Title	Mailing Address	Town	State	Zip
William Tong	Attorney General	165 Capitol Ave.	Hartford	CT	06106
Katie Dykes	Commissioner, Dept. of Energy and Environmental Protection	79 Elm St.	Hartford	CT	06106-5127
Marissa Gillett	Chairman, Public Utilities Regulatory Authority	10 Franklin Square	New Britain	CT	06051
Manisha Juthani, M.D.	Commissioner, Dept. of Public Health	410 Capitol Ave.	Hartford	CT	06134
Paul Aresta	Executive Director, Council on Environmental Quality	79 Elm St.	Hartford	CT	06106
Bryan P. Hurlburt	Commissioner, Dept. of Agriculture	450 Columbus Blvd., Suite 701	Hartford	CT	06103
Jeffrey R. Beckham	Secretary, Office of Policy and Management	450 Capitol Ave.	Hartford	CT	06106
Garrett Eucalitto	Commissioner, Dept. of Transportation	2800 Berlin Turnpike	Newington	CT	06111
Alexandra Daum	Commissioner, Dept. of Economic and Community Development	450 Columbus Blvd.	Hartford	CT	06103
Brenda Bergeron	Deputy Commissioner, Div. of Emergency Management and Homeland Security	1111 Country Club Rd.	Middletown	CT	06457
Bryan T. Cafferelli	Commissioner, Dept. of Consumer Protection	450 Columbus Blvd., Suite 901	Hartford	CT	06103
Michelle Gilman	Commissioner, Dept. of Administrative Services	450 Columbus Blvd.	Hartford	CT	06103
Danté Bartolomeo	Commissioner, Dept. of Labor	200 Folly Brook Blvd.	Wethersfield	CT	06109
Richard Blumenthal	Senator	706 Hart Senate Office Building	Washington	DC	20510
Chris Murphy	Senator	136 Hart Senate Office Building	Washington	DC	20510
Rosa L. DeLauro	U.S. Representative	2413 Rayburn House Office Building	Washington	DC	20515
Gary A Winfield	State Senator, 10th District	Legislative Office Building, Room 3300, 300 Capitol Ave.	Hartford	CT	06106-1591
Juan Candelaria	Representative, 95th District	Legislative Office Building, Room 4015, 300 Capitol Ave.	Hartford	CT	06106-1591
	South Central Regional Council of Governments	127 Washington Ave., 4th Floor West	North Haven	CT	06473
Justin Elicker	Mayor, City of New Haven	165 Church St.	New Haven	CT	06510
Laura Brown	Executive Director, City Plan	165 Church St., 5th Floor	New Haven	CT	06510
Leslie Radcliff	Chair, City Plan Commission*	165 Church St.	New Haven	CT	06510

*City Plan Commission functions as Inland Wetlands agency

ABUTTING PROPERTY OWNERS

		subject parcel				
Map/Block/Lot	**Property Address**	**Owner Name**	**Mailing Address**	**Town**	**State**	**Zip**
228/1304/00500	100 Sargent Drive	Sargent Manufacturing Company	100 Sargent Dr.	New Haven	CT	06511
236/1304/00702	Food Terminal Plz	State of Connecticut Department of Transportation	2800 Berlin Turnpike, P.O. Box 317546	Newington	CT	06131-7546
236/1304/00701	102 Food Terminal Plz	Ronald A. Petrillo	518 Racebrook Rd.	Orange	CT	06477
228/1304/00700	Sargent Drive	1-3 Long Wharf Drive Ownership LLC	Healthcare Trust of America, 16435 N Scottsdale Rd. #320	Scottsdale	AZ	85254
228/1304/00600	150 Sargent Drive	Yale-New Haven Hospital, Inc.	20 York St.	New Haven	CT	06510
no parcel number	I-95	State of Connecticut Department of Transportation	2800 Berlin Turnpike, P.O. Box 317546	Newington	CT	06131-7546
235/1304/00300	90 Sargent Drive	South Central Connecticut Water Authority	90 Sargent Dr.	New Haven	CT	06511
235/1304/00400	Sargent Drive	South Central Connecticut Regional Water Authority	90 Sargent Dr.	New Haven	CT	06511
237/1300/00103	Union Avenue	Penn Central	1439 State St.	New Haven	CT	06511

What Powers You

VIA CERTIFICATE OF MAILING

July 22, 2024

RE: Application of Bloom Energy for the location and construction of a Bloom Energy Server fuel cell installation to provide 900 kilowatts of Customer-Side Distributed Resource at Assa Abloy, 100 Sargent Drive, New Haven, Connecticut

Dear Ladies and Gentlemen:

Pursuant to Section §16-50j-40 of the Connecticut Siting Council's (the "Council") regulations, we are notifying you that Bloom Energy intends to file, on or about July 26, 2024, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of a 900-kilowatt fuel cell installation and associated equipment. The Facility will be located at the Assa Abloy facility at 100 Sargent Drive in New Haven, Connecticut (the "Site"). You previously received a notification; this provides notification of the same petition, which was delayed.

The purpose of the proposed Facility is to replace a portion of Assa Abloy's annual load at that location with a renewable energy source[1] and improve reliability of electrical systems and equipment. Electricity generated by the Facility will be consumed primarily at the Site, and any excess electricity will be exported to the electric grid. The Facility will be fueled by natural gas.

Keeping the lines of communication open is an important part of our work in your community. If you have questions about this work, please contact the undersigned or the Council.

Respectfully,

Kristen Grillo
Senior Permitting Specialist
Kristen.grillo@bloomenergy.com

[1]Connecticut General Statutes §16-1(a)(26)(A) identifies fuel cells as a "Class I renewable energy source".

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3.	Marissa Gillett, Chairman Public Utilities Regulatory Authority 10 Franklin Square New Britain, CT 06051				
4.	Manisha Juthani, M.D., Commissioner Department of Public Health 410 Capitol Ave. Hartford, CT 06134				
5.	Paul Aresta, Executive Director Council on Environmental Quality 79 Elm St. Hartford, CT 06106				
6.	Bryan P. Hurlburt, Commissioner Department of Agriculture 450 Columbus Blvd., Suite 701 Hartford, CT 06103				

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3.	Alexandra Daum, Commissioner ~~Department of Economic and~~ Community Development 450 Columbus Blvd. ~~Hartford, CT 06103~~				
4.	~~Brenda Bergeron, Dep. Commissioner.~~ Division of Emergency Management and Homeland Security 1111 Country Club Rd. ~~Middletown, CT~~				
5.	~~Bryan T. Cafferelli, Commissioner~~ Department of Consumer Protection 450 Columbus Blvd., Suite 901 ~~Hartford, CT 06103~~				
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2.	Hon. Richard Blumenthal Senator 706 Hart Senate Office Building Washington, DC 20510				
3.	Hon. Chris Murphy Senator 136 Hart Senate Office Building Washington, DC 20510				
4.	Hon. Rosa L. DeLauro U.S. Representative 2413 Rayburn House Office Building Washington, DC 20515				
5.	Hon. Gary A. Winfield State Senator, 10th District Legislative Office Building, Room 3300 300 Capitol Ave. Hartford, CT 06106-1591				
6.	Hon. Juan Candelaria Representative, 95th District Legislative Office Building, Room 4015 300 Capitol Ave. Hartford, CT 06106-1591				

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2.	1-3 Long Wharf Drive Ownership LLC Healthcare Trust of America 16435 N. .Scottsdale Rd. #320 Scottsdale, AZ 85254				
3.	Yale-New Haven Hospital Inc. 20 York St. New Haven, CT 06510				
4.	South Central Connecticut Water Authority 90 Sargent Dr. New Haven, CT 06511				
5.	~~South Central Connecticut Regional Water Authority~~ ~~90 Sargent Dr.~~ ~~New Haven, CT 06511~~				
6.	~~State of Connecticut Dept of Transportation~~ ~~2800 Berlin Turnpike~~ ~~P.O. Box 317546~~ ~~Newington, CT 06131-7546~~				

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3.	Leslie Radcliff, Chair City Plan Commission ~~165 Church St.~~ New Haven, CT 06510				
4.	South Central Regional Council of Governments 127 Washington Ave., 4th Floor West North Haven, CT 06473				
5.	Sargent Manufacturing Company 100 Sargent Dr. New Haven, CT 06511				
6.	Penn Central 1439 State St. New Haven, CT 06511				

What Powers You

VIA CERTIFICATE OF MAILING

April 29, 2024

RE: Application of Bloom Energy for the location and construction of a Bloom Energy Server fuel cell installation to provide 900 kilowatts of Customer-Side Distributed Resource at Assa Abloy, 100 Sargent Drive, New Haven, Connecticut

Dear Ladies and Gentlemen:

Pursuant to Section §16-50j-40 of the Connecticut Siting Council's (the "Council") regulations, we are notifying you that Bloom Energy intends to file, on or about May 3, 2024, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of a 900-kilowatt fuel cell installation and associated equipment. The Facility will be located at the Assa Abloy facility at 100 Sargent Drive in New Haven, Connecticut (the "Site").

The purpose of the proposed Facility is to replace a portion of Assa Abloy's annual load at that location with a renewable energy source[1] and improve reliability of electrical systems and equipment. Electricity generated by the Facility will be consumed primarily at the Site, and any excess electricity will be exported to the electric grid. The Facility will be fueled by natural gas.

Keeping the lines of communication open is an important part of our work in your community. If you have questions about this work, please contact the undersigned or the Council.

Respectfully,

Kristen Grillo
Senior Permitting Specialist
Kristen.grillo@bloomenergy.com

[1]Connecticut General Statutes §16-1(a)(26)(A) identifies fuel cells as a "Class I renewable energy source".

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4.	Manisha Juthani, M.D., Commissioner Department of Public Health 410 Capitol Ave. Hartford, CT 06134				
5.	Paul Aresta, Executive Director Council on Environmental Quality 79 Elm St. Hartford, CT 06106				
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5.	Hon. Gary A. Winfield State Senator, 10th District Legislative Office Building, Room 3300 300 Capitol Ave. Hartford, CT 06106-1591				
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See Reverse for Instructions

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5.	South Central Connecticut Regional Water Authority 90 Sargent Dr. New Haven, CT 06511				
6.	State of Connecticut Dept of Transportation 2800 Berlin Turnpike P.O. Box 317546 Newington, CT 06131-7546				

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Exhibit 9

From: Jennifer Young Gaudet
To: "lebrown@newhavenct.gov"
Subject: RE: Bloom Energy - proposed fuel cell installation at Assa Abloy, 100 Sargent Drive
Date: Thursday, July 18, 2024 3:06:00 PM
Attachments: image001.png
ABL000.0 Assa Abloy site plan.pdf

Dear Ms. Brown:

I am writing to follow up my previous correspondence on the Bloom Energy planned fuel cell installation at 100 Sargent Drive. Attached is a more detailed plan that depicts the raised fuel cell area. We anticipate that Bloom will submit a petition to the Connecticut Siting Council by the end of July; City representatives will receive notice of that filing from both Bloom and the Siting Council.

If you or any other City staff have questions or comments, please don't hesitate to contact me.

Thank you.

Jennifer Young Gaudet

JENNIFER YOUNG GAUDET
PROGRAM MANAGER
M | 860.798.7454
All-Points Technology Corporation

From: Jennifer Young Gaudet
Sent: Monday, April 22, 2024 4:58 PM
To: 'lebrown@newhavenct.gov' <lebrown@newhavenct.gov>
Subject: Bloom Energy - proposed fuel cell installation at Assa Abloy, 100 Sargent Drive

Dear Ms. Brown:

I am writing on behalf of Bloom Energy in connection with a planned fuel cell installation at the Assa Abloy facility on Sargent Drive. Attached are plans depicting the proposed installation, which will consist of three Energy Servers and associated equipment and be fueled by natural gas. As shown, it will be located at the rear of the property, near the west corner of the building.

Bloom will be submitting a petition to the Connecticut Siting Council for approval. In preparation for the filing, we are seeking any comments you or other appropriate City departments may have on the proposed plans.

I am available to discuss the plans or answer any questions you may have. I can be reached by phone at 860 798-7454 or by e-mail.

Thank you.

Jennifer Young Gaudet

JENNIFER YOUNG GAUDET
PROGRAM MANAGER
D| 860.581.4478 · **M**| 860.798.7454 · **W**|
www.allpointstech.com
567 Vauxhall Street Extension – Suite 311, Waterford, CT 06385