

# What Powers You

May 25, 2022

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 300-Kilowatt Fuel Cell Customer-Side Distributed Resource at the University of New Haven, 300 Boston Post Road, West 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 300-kilowatt fuel cell and associated equipment at the University of New Haven campus at 300 Boston Post Road in West Haven, Connecticut (the “Facility”). Electricity generated by the Facility will benefit the University’s operation, 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](mailto:kristen.grillo@bloomenergy.com)  
(917) 803-4511



Bloom Energy Corporation  
4353 North First Street, San Jose, CA 95134  
408 543 1500  
[www.bloomenergy.com](http://www.bloomenergy.com)

**STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL**

PETITION OF BLOOM ENERGY CORPORATION : PETITION NO. \_\_\_\_  
FOR A DECLARATORY RULING FOR THE :  
LOCATION AND CONSTRUCTION OF A :  
300-KILOWATT FUEL CELL CUSTOMER-SIDE :  
DISTRIBUTED RESOURCE AT THE :  
UNIVERSITY OF NEW HAVEN, 300 BOSTON :  
POST ROAD, WEST HAVEN, CT : MAY 25, 2022

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 University of New Haven campus (the “University”) at 300 Boston Post Road, West Haven, Connecticut (the “Site”). Bloom will install a fuel cell consisting of one (1) ES-5 Bloom Energy Server solid oxide fuel cell and associated equipment (the “Facility”) that will provide a total of 300 kilowatts (“kW”) (net) of power to the Site. *See* Exhibits 1 and 3. The Facility will be installed, maintained and operated by Bloom under a 15-year power purchase agreement with the University owned by a third-party financing source. The Facility has been selected as part of the LREC 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 Protection....

The proposed fuel cell 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 Protection (“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 Site 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  
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Fax: (408) 543-1501  
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## III. DISCUSSION

### A. The Facility

The Facility will be a 300-kW customer-side distributed resource consisting of one (1) Bloom solid oxide fuel cell Energy Server, model ES5-YASAAN, 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 in the southeastern portion of the Site, at the edge of a parking lot near the recently developed Bergami Center for Science, Technology and Innovation and Buckman Hall. An additional adjacent space has been

tentatively designated for potential future expansion of the University's fuel cell generation capacity.<sup>1</sup>

Connections to existing utilities will extend underground northeastward to electrical, telco and water utilities within Buckman Hall. 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 photographs and equipment specifications.

Bloom has sized the system at 300 KW based on consultation with University representatives and analysis of the University'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. The Facility has been sized to provide at least 49% of the University's average annual baseload. Exhibit 4. Electricity generated by the Facility will be consumed primarily at the Site and any excess electricity will be exported to the grid.

The operational life of the Facility is for the life of the 15-year contract with the University. At the conclusion of the 15-year contract, the University 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 will be filed with United Illuminating in the near future; approval is anticipated in fall of 2022.

## **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 on the Site. 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

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<sup>1</sup> Any addition to the Facility would be the subject of an additional petition to and review by the Council.

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 West Haven (“City”) Fire Department personnel and University 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.<sup>2</sup> 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<sup>3</sup>.

### **C. Existing and Proposed Environment**

#### **i. The Site**

The Site and other University properties are located in the eastern part of the City, at the intersection of U.S. Route 1 (Boston Post Road/Orange Avenue) and State Route 122 (Campbell Avenue). The Site is an approximately 17.09-acre parcel within the EFD, Educational Facilities District zone. The surrounding area is densely developed with a mix of commercial, residential and institutional uses.

The Site is fully developed with multiple University classroom, student housing, activity buildings and associated surface parking lots. The fuel cell installation will be located in the southeastern portion of the Site, in a paved parking area, utilizing three parking spaces currently designated for handicapped parking. Two existing landscape trees will be removed and a street light will be relocated.

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<sup>2</sup> Standard for the Installation of Stationary Fuel Cell Power Systems, 2015 Edition

<sup>3</sup> Public Act 11-101, An Act Adopting Certain Safety Recommendations of the Thomas Commission

The Facility is designed to take advantage of existing infrastructure, including utilities, and to support the University's goals for conservation and sustainability, represented by the Bergami Center for Science, Technology and Innovation's status as a LEED Gold Certification building. The Facility will have little or no impact on operational requirements and traffic and pedestrian flow within the Site once constructed, and ample parking will continue to exist.

ii. Wildlife and Habitat

Based on a review of the publicly available Connecticut Department of Energy and Environmental Protection (DEEP) Natural Diversity Database (NDDDB) December 2021 data, the proposed Facility is not within an NDDDB area, an identified location of endangered, threatened and special concern species or significant natural community. Exhibit 5. Therefore, no consultation with DEEP NDDDB is required.

The Site and the surrounding vicinity are densely developed. The Facility will be placed within a paved area adjacent to multiple large buildings. The addition of the Facility will have no effect on wildlife habitat.

iii. Wetlands and Watercourses

There are no identified wetland or watercourse resources within or proximate to the proposed Site. Therefore, the Facility will not have any adverse effect on wetlands or watercourses. As described herein, appropriate erosion and sedimentation control measures will be employed during construction.

iv. Flood Zones and Aquifer Protection Area

A review of the flood hazard mapping data from the Federal Emergency Management Agency's ("FEMA") National Flood Insurance Program ("NFIP") shows the Facility would not be located in either a 100-year or 500-year flood zone. *See Exhibit 5.*

The Site was also reviewed for proximity to Aquifer Protection Areas. According to GIS data provided by DEEP, the nearest Aquifer Protection Area is approximately 7.95 miles northwest of the Site.

v. Cultural Resources

The Site, including the Facility location, has been previously developed and disturbed. The construction and operation of the Facility will therefore not have a substantial 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 96-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.<sup>4</sup> 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 Low and Zero Emissions Renewable Energy Credit (LREC/ZREC) program<sup>5</sup>, and compares them to emissions generated from the proposed Facility. By virtue of the non-combustion process the Bloom Energy fuel cells virtually eliminate NO<sub>x</sub>, SO<sub>x</sub>, CO, VOCs and particulate matter emissions from the energy production process. Similarly, there are no CH<sub>4</sub>, SF<sub>6</sub>, HFC or PFC emissions.

**Table 1: Connecticut Thresholds for Greenhouse Gases**

<b>Emission Type</b>	<b>Bloom Output</b>	<b>LREC allowance</b>
Nitrous Oxides (NO <sub>x</sub> )	<0.01 lbs/MWh	0.07 lbs/MWh
Carbon Monoxide (CO)	<0.05 lbs/MWh	0.10 lbs/MWh
Sulfur Oxides (SO <sub>x</sub> )	Negligible	Not Listed
Volatile Organic Compounds (VOCs)	<0.02 lbs/MWh	0.02 lbs/MWh
Carbon Dioxide (CO <sub>2</sub> ) <sup>6</sup>	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

<sup>4</sup> See Conn. Agencies Regs. §§ 22a-174-42(b) and (e).

<sup>5</sup> Sec. 16-244t

<sup>6</sup> Carbon dioxide is measured at Bloom’s stated lifetime efficiency level of 53-60%.

Protection Agency (EPA) “eGrid” data (2020), the proposed Facility is expected to reduce carbon emissions by approximately 13% while essentially eliminating local air pollutants like NO<sub>x</sub>, SO<sub>x</sub>, and particulate matter.

The City’s Plan of Conservation and Development (“POCD”), adopted in 2017, does not address energy conservation or use of renewable energy sources. The Town’s Zoning Regulations, effective August 30, 2006 and revised through January 15, 2020, do not address energy conservation or use of renewable energy sources other than to define passive solar design and note restrictions on visibility of solar panels within the Village District, neither of which are relevant to the proposed Facility.

iii. Sound Levels

The Facility will comply with State of Connecticut regulations for the Control of Noise. The Town’s noise ordinance adopts the same zone noise classifications and standards as the State regulations.

Bloom retained Veneklasen Associates to evaluate the impact of noise from the proposed Facility on adjacent property lines and sensitive noise receptors. *See* Exhibit 7, Veneklasen Associates Property Line Noise Analysis (“Report”). As indicated in the Report, noise levels at Site property lines are in compliance with State and City regulations without mitigation. Five of the six properties identified as sensitive receptors in the report are owned by the University.

The City noise ordinance exempts noise generated by construction activities during daytime hours, 7:00 a.m. to 10:00 p.m. Bloom typically performs project construction Monday through Friday, 7:00 a.m. to 5:00 p.m.

iv. Visual Effects

The visual effect of the Facility will be minimal, and primarily within the Site. Any off-Site views of the Facility would likely be limited to other University properties. Given the low

height and small scale of the Facility in relation to the surrounding buildings, the incremental visual effect of the Facility is minimal.

#### **E. Project Construction and Maintenance**

Bloom anticipates construction to start in the late third quarter of 2022 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 2002 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 storm water 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 Server, associated equipment and components will be dismantled and removed and the site 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 letter and documentation of mailing are provided in Exhibit 8.

A representative of Bloom contacted Mr. Christopher Soto, the City's Director of Planning and Development, by email on May 4, 2022 and provided plans for the proposed Facility for review and comment. Neither Mr. Soto 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 the Site'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.

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 Site or in the State of Connecticut. Accordingly, Bloom respectfully requests that the Council approve the proposed Facility by declaratory ruling.

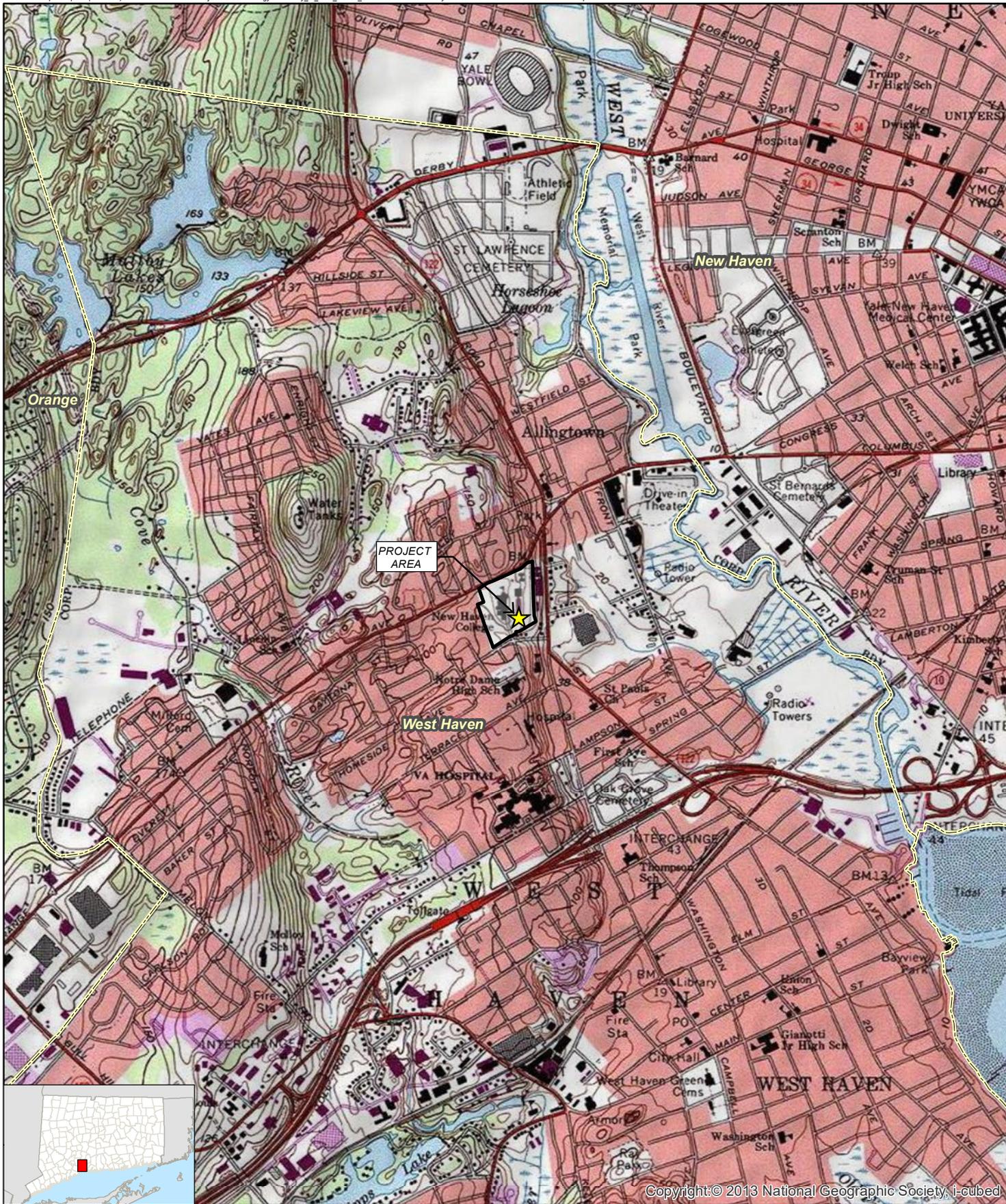
Respectfully submitted,

Bloom Energy Corporation

By: 

Kristen Grillo  
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4353 North First Street  
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Telephone: (917) 803-4511  
Email: [kristen.grillo@bloomenergy.com](mailto:kristen.grillo@bloomenergy.com)

# Exhibit 1

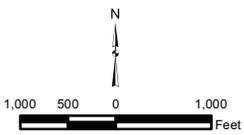


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**Legend**

-  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: May 2022

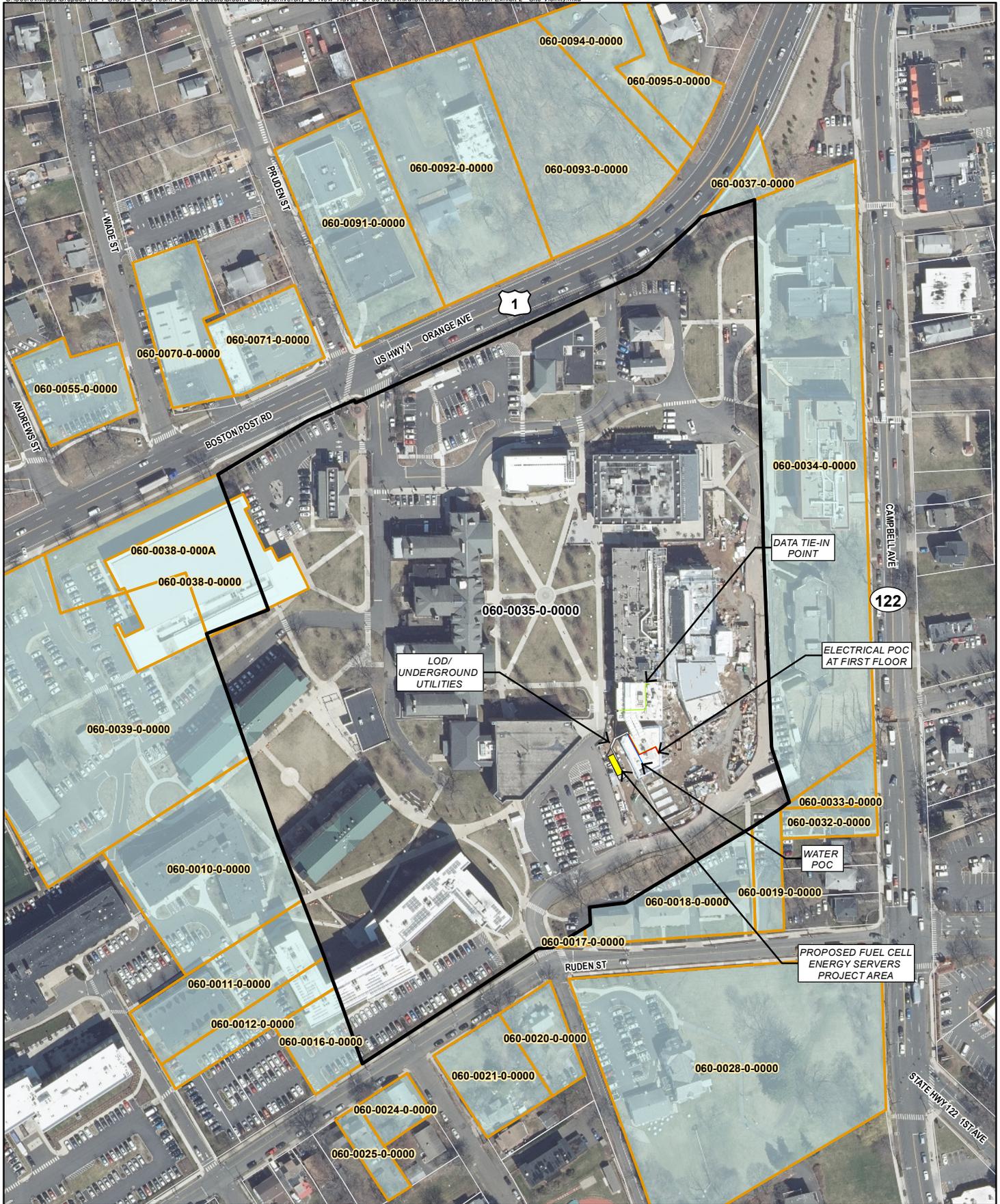


**Exhibit 1  
 Site Location Map**

Proposed Bloom Energy Facility  
 University of New Haven  
 300 Boston Post Road  
 West Haven, Connecticut



Exhibit 2



- Legend**
- Site
  - Abutting Property
  - Approximate Assessor Parcel Boundary
  - Project Area
  - Limit of Disturbance/Underground Utilities
  - Electrical Service
  - Water Service
  - Data Service

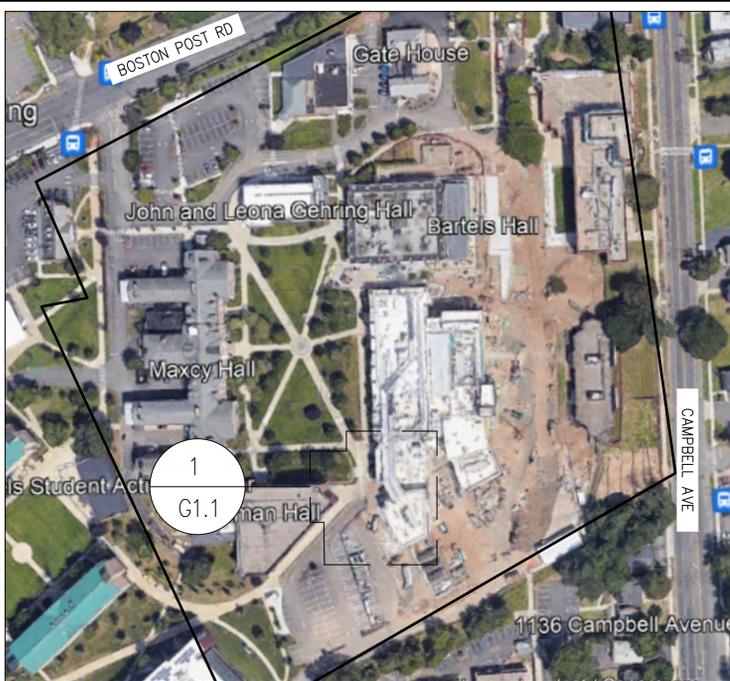
**Map Notes:**  
 Base Map Source: CTECO 2019 Aerial Photograph  
 Map Scale: 1 inch = 200 feet  
 Map Date: May 2022

## Exhibit 2 Site Vicinity

Proposed Bloom Energy Facility  
 University of New Haven  
 300 Boston Post Road  
 West Haven, Connecticut



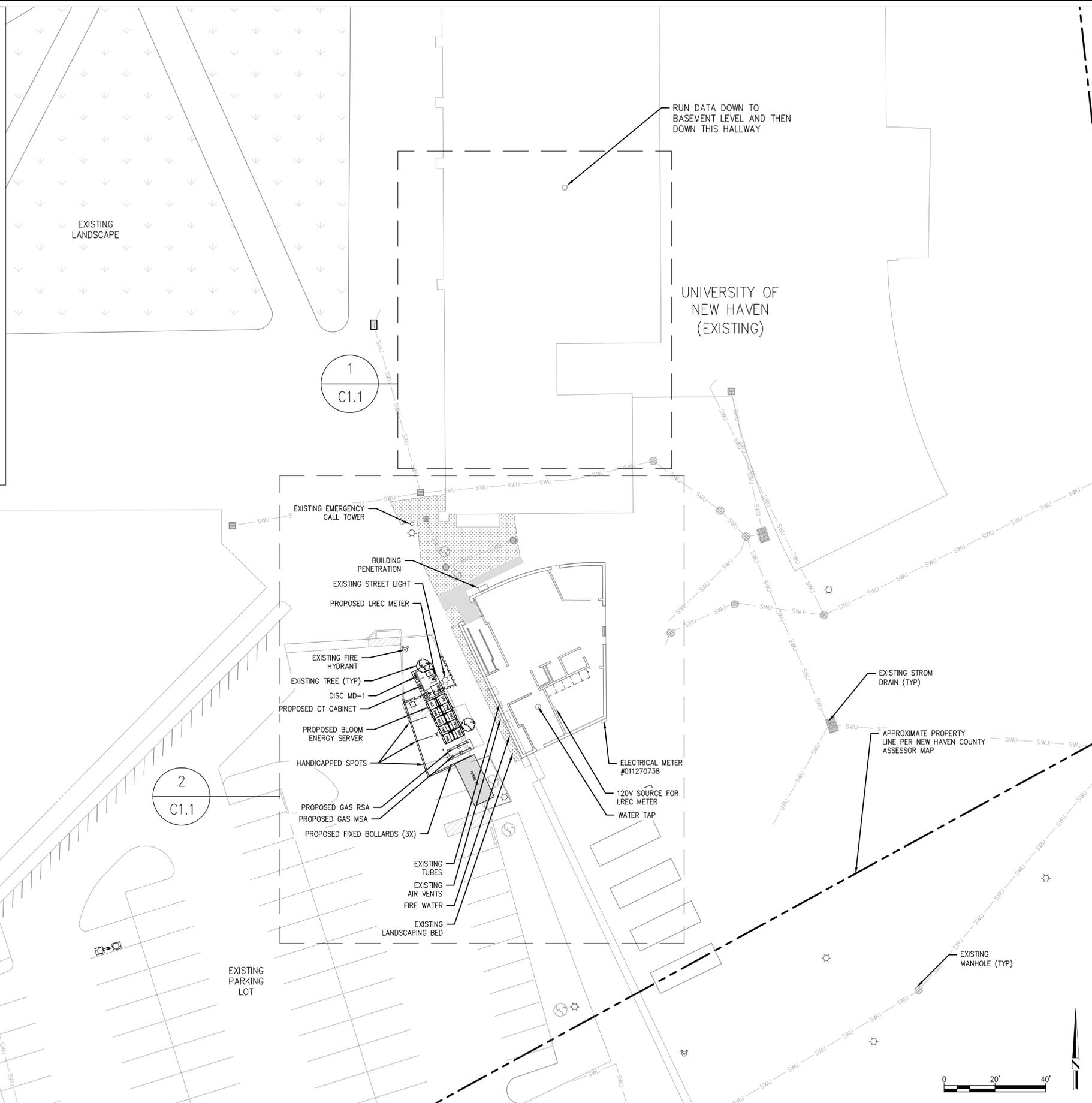
# Exhibit 3



**OVERALL SITE PLAN**

SCALE: NTS =

2  
G1.1



**SITE REFERENCE NOTE:**  
EXISTING SITE CONDITIONS TAKEN FROM GOOGLE EARTH

**OVERALL SITE PLAN**

SCALE: 1" = 20'

1  
G1.1

**Bloomenergy**

4353 N. FIRST STREET  
SAN JOSE, CA 95134

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CUSTOMER SITE

UNIVERSITY OF NEW HAVEN  
300 BOSTON POST RD  
WEST HAVEN, CT 06516



REVISION HISTORY		
REV	REVISION ISSUE	DATE
-	INITIAL RELEASE	01/14/2022

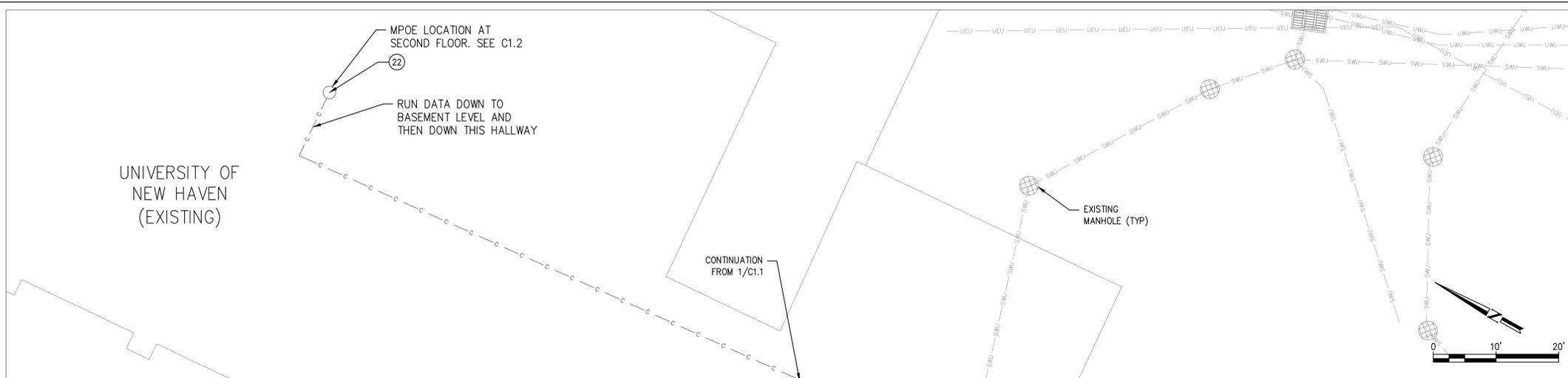
DESIGNED BY SCOTT BARD	REVIEWED BY SASHA SCARLAT
DRAWN BY LATHASHREE	APPROVED BY

SHEET TITLE  
**OVERALL SITE PLAN**

DRAWING NUMBER  
**G1.1**

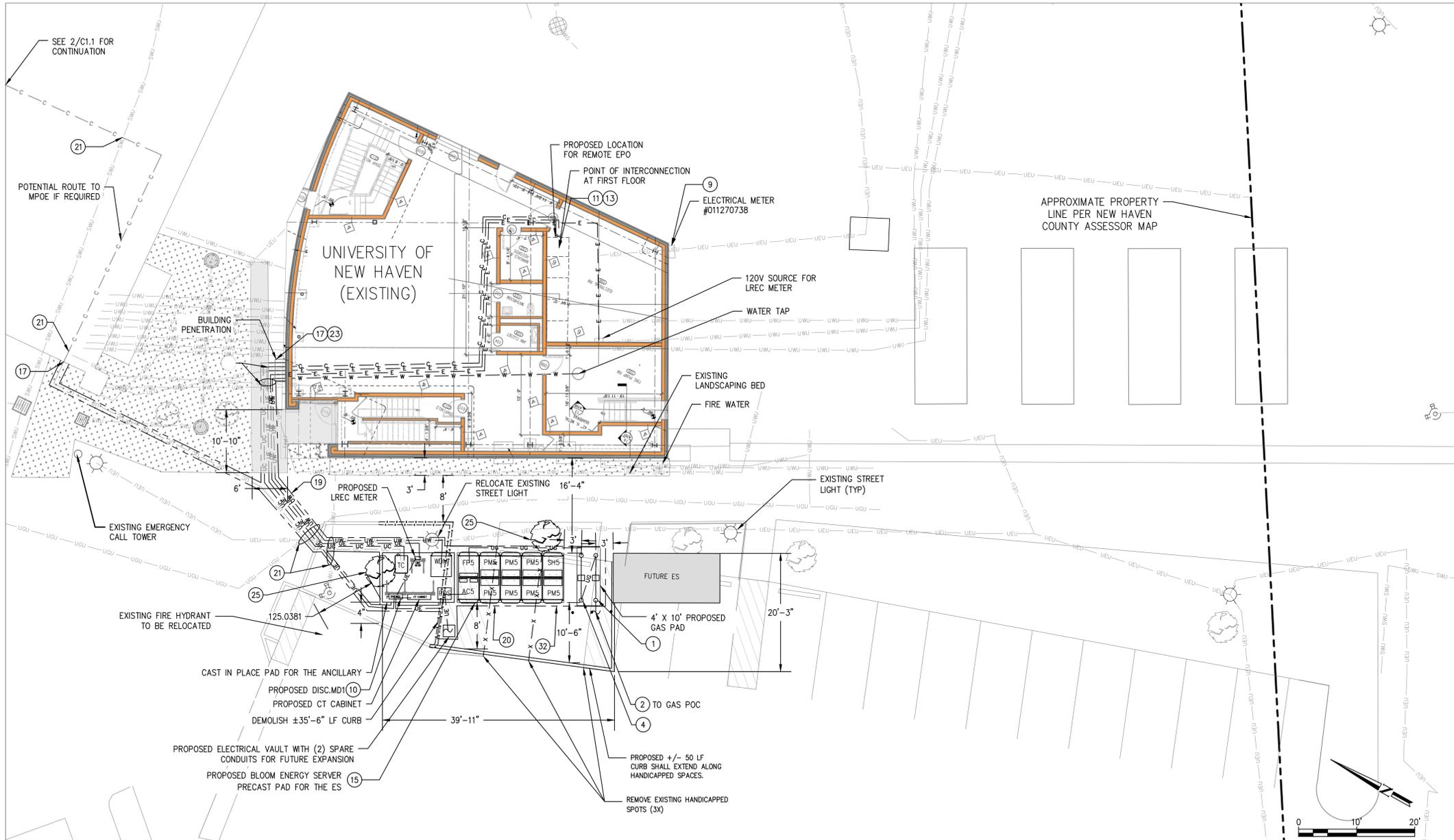
BLOOM DOCUMENT  
**DOC-1014756**

THIS DRAWING IS 24" X 36" AT FULL SIZE  
SITE ID: UNH000.0 SHEET 03 OF 10



DETAILED SITE PLAN  
SCALE: 1" = 10'

1  
C1.1



DETAILED SITE PLAN  
SCALE: 1" = 10'

2  
C1.1

GENERAL NOTES

- CLEAN AND PRIME ALL PROPOSED WALL MOUNTED PIPING AND CONDUIT. PIPING AND CONDUIT SHALL BE PAINTED WITH EXTERIOR GRADE PAINT TO MATCH EXISTING.
- 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.
- SLOPE LINES SHOWN ARE APPROXIMATE AND INTENDED TO SHOW THE GENERAL DIRECTION OF WATER RUN OFF; SLOPE LINES ARE DRAWN PER VISUAL SURVEY OF SURROUNDING AREA.
- SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.

REFERENCE SHEET NOTES

- UTILITY SHALL FURNISH AND INSTALL GAS METER & REGULATOR ASSEMBLY WITH SHUT-OFF VALVE. CONTRACTOR SHALL FURNISH AND INSTALL PAD DETAILS. THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
- UTILITY SHALL FURNISH AND INSTALL UNDERGROUND GAS SERVICE TAP. CONTRACTOR SHALL PERFORM COMPACTION AND MATCH EXISTING SURFACE AND GRADE. CONTRACTOR SHALL COORDINATE GAS PIPE SIZING AND INSTALLATION REQUIREMENT WITH UTILITY.
- UTILITY SHALL FURNISH AND INSTALL ABOVEGROUND GAS SERVICE TAP. CONTRACTOR SHALL COORDINATE GAS UTILITY. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- FURNISH AND INSTALL GAS PIPE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- BLOOM ENERGY SHALL FURNISH AND CONTRACTOR SHALL INSTALL DISCONNECT SWITCH. MOUNT DISCONNECT SWITCH TO THE WALL PER MANUFACTURER AND UTILITY SPECIFICATIONS.
- CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL FEEDER. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- PROPOSED BLOOM ENERGY SERVER. REFER TO BLOOM ENERGY STANDARD INSTALLATION DRAWING SET FOR ADDITIONAL BLOOM ENERGY SERVER DETAILS.
- FACTORY WIRED BLOOM ENERGY SERVER EMERGENCY POWER-OFF SWITCH (EPO).
- 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.
- CONTRACTOR SHALL SAWCUT TRENCH FOR UNDERGROUND UTILITIES IN THIS LOCATION AND HAND DIG TRENCHES WHERE THEY CROSS EXISTING UTILITIES. REFER TO UNDERGROUND/TRENCH CONDUIT AND PIPING DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL SAWCUT TO ALLOW FOR EXCAVATION UNDER ENERGY SERVER AND ANCILLARY PAD LOCATIONS. REFER TO PAD DETAIL FOR ADDITIONAL EXCAVATION AND BACKFILL REQUIREMENTS.
- PROTECT EXISTING UNDERGROUND UTILITY LINES FROM DAMAGE WHEN CROSSING WITH PROPOSED UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED LINES.
- CONTRACTOR SHALL FURNISH AND INSTALL CONDUITS AND CABLES FROM THE PROPOSED GAS MSA TO CUSTOMER MPOE FOR UTILITY BILLING. REFER TO BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR CONNECTION REQUIREMENTS.
- CONTRACTOR SHALL TRANSITION ALL ABOVEGROUND 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 DETAIL.
- CONTRACTOR SHALL REMOVE EXISTING TREE.
- THE CONTRACTOR SHALL REMOVE AND RELOCATE EXISTING STREET LIGHT CONDUIT AND CONDUCTORS FROM ENERGY SERVER AREA. COORDINATE ALL WORK WITH OWNER REPRESENTATIVE. CONTRACTOR SHALL ROUTE CONDUCTORS FROM THE STREET LIGHT TO STREET LIGHT WITHOUT SPLICING, TYP.

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 UTILITIES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED LINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE AND MAY REQUIRE ADJUSTMENTS TO AVOID CONFLICTS.



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SAN JOSE, CA 95134  
PROPRIETARY AND CONFIDENTIAL

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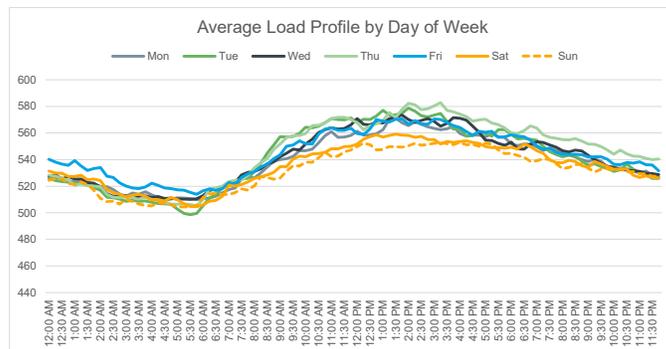
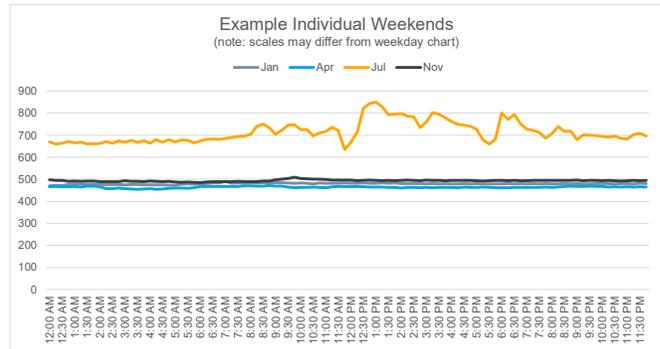
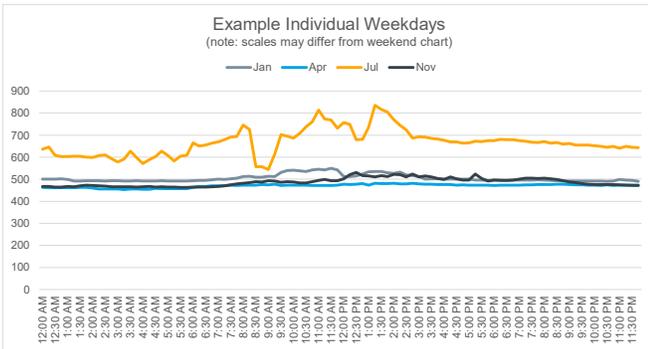
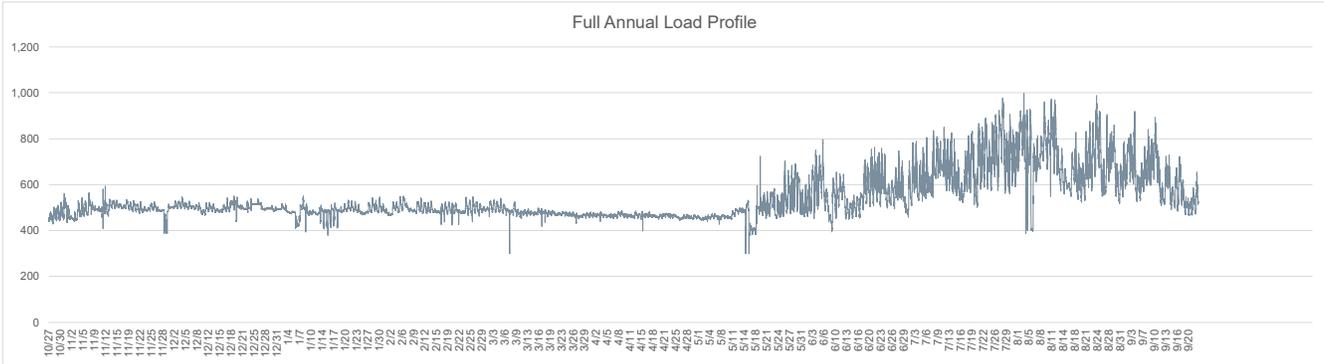
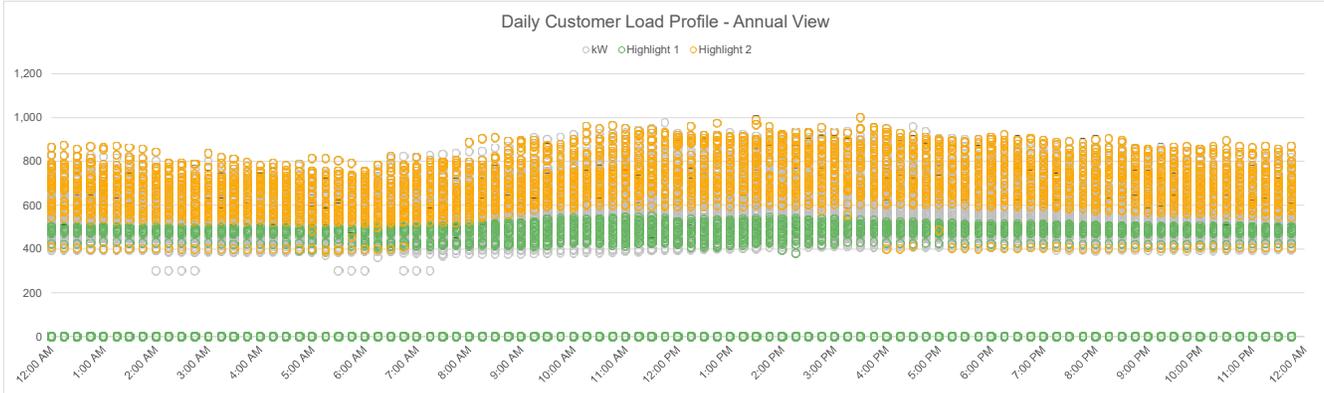
# Exhibit 4

SITE DETAILS	
Utility Tariff	CT - UI GST-S
Customer Name	University of New Haven
Site Name or Address	New Addition
Utility Account Number	01000015947376
Meter Number	011270738
<b>NOTES</b>	
[Notes here]	

SIZING SUMMARY	
Total Days of Complete, Non-Zero Data	332
Annual Load Factor	49%
Total Customer Usage	4,300,517 kWh
Average 15-Min kW	540 kW
Average Peak Demand	687 kW
<b>Absolute Minimum kW (non-zero)</b>	<b>300 kW</b>
<b>Estimated Average Baseload</b>	<b>500 kW</b>
<b>Proposed System Size</b>	<b>550 kW</b>
<b>Estimated Resulting Net Metering</b>	<b>5.07%</b>

University of New Haven - New Addition (Acct 7376; Meter 0738) - New Sizing Tool

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



## Energy Server 5

Always On, Clean Energy  
Using Patented Solid Oxide  
Fuel Cell Technology



The Energy Server 5 provides combustion-free electric power with these benefits



### Clean

Our systems produce near zero criteria pollutants (NOx, SOx, and particulate matter) and far fewer carbon emissions than legacy technologies.



### Reliable

Bloom Energy Servers are designed around a modular architecture of simple repeating elements. This enables us to generate power 24 x 7 x 365 and can be configured to eliminate the need for traditional backup power equipment.



### Resilient

Our system operates at very high availability due to its fault-tolerant design and use of the robust natural gas pipeline system. Bloom Energy Servers have survived extreme weather events and other incidences and have continued providing power to our customers.



### Simple Installation and Maintenance

Our Energy Servers are 'plug and play' and have been designed in compliance with a variety of safety standards. Bloom Energy manages all aspects of installation, operation and maintenance of the systems.

Energy Server 5		Technical Highlights (ES5-YASAAN)	
<b>Outputs</b>			
Nameplate power output (net AC)	300kW		
Load output (net AC)	300kW		
Electrical connection	480V, 3-phase, 60 Hz		
<b>Inputs</b>			
Fuels	Natural gas, directed biogas		
Input fuel pressure	10-18 psig (15 psig nominal)		
Water	None during normal operation		
<b>Efficiency</b>			
Cumulative electrical efficiency (LHV net AC) <sup>1</sup>	65-53%		
Heat rate (HHV)	5,811-7,127 Btu/kWh		
<b>Emissions<sup>2</sup></b>			
NOx	0.0017 lbs/MWh		
SOx	Negligible		
CO	0.034 lbs/MWh		
VOCs	0.0159 lbs/MWh		
CO <sub>2</sub> @ stated efficiency	679-833 lbs/MWh on natural gas; carbon neutral on directed biogas		
<b>Physical Attributes and Environment</b>			
Weight	15.8 tons		
Dimensions (variable layouts)	17'11" x 8'8" x 6'9" or 32'3" x 4'4" x 7'2"		
Temperature range	-20° to 45° C		
Humidity	0% - 100%		
Seismic vibration	IBC site class D		
Location	Outdoor		
Noise	< 70 dBA @ 6 feet		
<b>Codes and Standards</b>			
Complies with Rule 21 interconnection and IEEE1547 standards			
Exempt from CA Air District permitting; meets stringent CARB 2007 emissions standards			
An Energy Server is a Stationary Fuel Cell Power System. It is Listed by Underwriters Laboratories, Inc. (UL) as a 'Stationary Fuel Cell Power System' to ANSI/CSA FC1-2014 under UL Category IRGZ and UL File Number MH45102.			
<b>Additional Notes</b>			
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			
<sup>1</sup> 65% LHV efficiency verified by ASME PTC 50 Fuel Cell Power Systems Performance Test			
<sup>2</sup> NOx and CO measured per CARB Method 100, VOCs measured as hexane by SCAQMD Method 25.3			

## About Bloom Energy

Bloom Energy's mission is to make reliable, clean energy affordable for everyone in the world. The company's product, the Bloom Energy Server, delivers highly reliable and resilient, Always On electric power that is clean and sustainable. Bloom's customers include twenty-five of the Fortune 100 companies and leaders in cloud services and data centers, healthcare, retail, financial services, utilities and many other industries.

Bloom Energy

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www.bloomenergy.com

Be

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DOC-1013916 Rev A



Looking south toward Facility location



Looking south toward Facility location



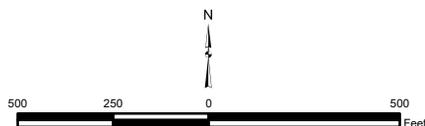
Looking north; Facility location at left

# Exhibit 5



- Legend**
- Site
  - Project Area
  - CTDEEP Watercourse
  - CTDEEP Natural Diversity Database (updated Dec 2021)
  - CTDEEP Critical Habitat (Oct 2019)
  - CTDEEP Wetlands
  - FEMA 100-Year Flood Zone
  - FEMA 500-Year Flood Zone
  - Floodway
  - CTDEEP Coastal Boundary
  - Approximate Assessor Parcel Boundary
  - 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: May 2022



**Exhibit 5  
 Environmental Resources**  
 Proposed Bloom Energy Facility  
 University of New Haven  
 300 Boston Post Road  
 West Haven, Connecticut



Exhibit 6



# *Fire Prevention and Emergency Planning – Grid Parallel*

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

## Table of Contents

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2. Fuel Cell Installation Safety Features
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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 modell 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

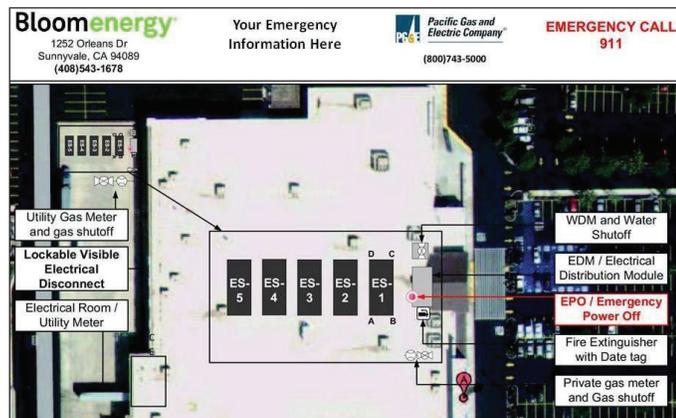


Figure 4: Sample Site Map

**Manual controls:**

- Clearly marked emergency stop button labeled —Fuel Cell Emergency Shut Down 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:

<b>Fire:</b>	<b>911</b>
<b>Ambulance:</b>	<b>911</b>
<b>Police:</b>	<b>911</b>

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 CO<sub>2</sub>. 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.

**Exhibit 7**

April 27, 2022

**Bloom Energy**

4353 North 1<sup>st</sup> Street  
 San Jose, California 95134

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

Subject: **UNH000.0 University of New Haven; West Haven, Connecticut  
 Property Line Noise Analysis  
 Veneklasen Project No. 4631-035**

Dear Brandon:

Veneklasen Associates, Inc. (Veneklasen) was contracted to evaluate noise impact of proposed fuel cells for the subject project in West Haven, Connecticut. This report includes predicted 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 West Haven, Connecticut Municipal Code Chapter 154 “Noise” Section 154-5 provides property line noise limits for various property types. These are summarized below in Table 1.

**Table 1. State of Connecticut Noise Limits**

Emitter’s Zone	Receptor’s Zone			
	Industrial	Commercial	Residential/Day	Residential/Night
Residential	62 dBA	55 dBA	55 dBA	45 dBA
Commercial	62 dBA	62 dBA	55 dBA	45 dBA
Industrial	70 dBA	66 dBA	61 dBA	51 dBA

Additionally, Section 154-5.C.(1) states the following:

*In those individual cases where the background noise levels caused by sources not subject to these regulations exceed the standards contained herein, a source shall be considered to cause excessive noise if the noise emitted by such source exceeds the background noise levels by five decibels, provided that no source subject to the provisions of this chapter shall emit noise in excess of 80 decibels at any time, and provided that this section does not decrease the permissible levels of other sections of this chapter.*

Veneklasen assumes proposed fuel cells will run 24-hours per day. According to the City of West Haven Zoning Map, all adjacent properties are zoned as residential and educational. Note that the City Noise Ordinances states that city-owned educational land is equal to residential land in regard to noise limits. In the following analysis, fuel cell noise levels are compared to the applicable limits described above.

**Existing Ambient Noise**

To determine the ambient noise levels at the site due to existing traffic sources, Veneklasen has utilized the Traffic Noise Model computer software program developed by the FHWA (Federal Highway Administration TNM 2.5) in order to predict vehicular noise levels at nearby sensitive receptors. Traffic counts for the nearby roadways were provided by the Connecticut Department of Transportation (CTDOT). The primary noise source is vehicular traffic on Campbell Avenue. CTDOT only published traffic count data for Campbell Avenue and not for any nearby local roads.

The FHWA software utilizes traffic count data, as well as other attributes of the roadway, to calculate average daytime, evening time, and nighttime noise levels. Since the fuel cells will operate 24-hours per day, Veneklasen

calculated the nighttime noise levels at select sensitive receptors. Note that receptors west of 46 Ruden Street will experience nighttime ambient levels less than 45 dBA and therefore not be subject to noise limit modification. Nighttime ambient levels for receptors closer to Campbell Avenue are summarized below in Table 2. Modified ambient noise levels are also included.

**Table 2. Average Nighttime Ambient Traffic Noise Levels**

Receptor Location	Calculated Nighttime Average Level, dBA	Revised Noise Limit, dBA
13 Ruden St	52	57
19 Ruden St	51	56
21 Ruden St	50	55
1136 Campbell Ave	57	62
46 Ruden St	49	54

### Property Line Noise Analysis

Drawings dated January 14, 2022 indicate that proposed fuel cell will be installed south of the existing building. Proposed fuel cells are shown in green in Figure 1 below. 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.

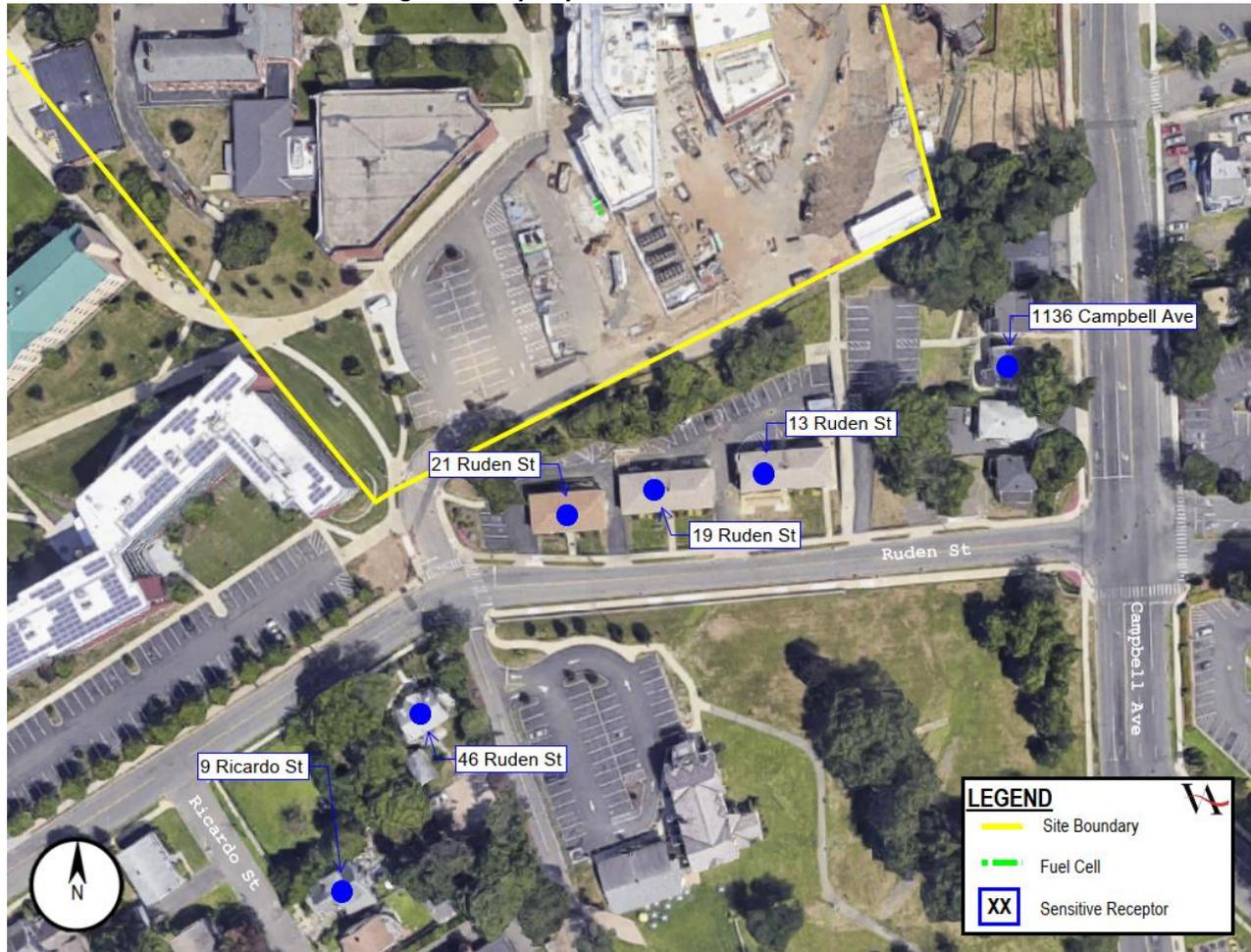
The calculated fuel cell noise levels as compared with State noise level limits are presented and compared in Table 3 below. Note that the reported distances between property lines and the fuel cells are taken from the closest face of the fuel cell nearest to the associated property line.

**Table 3. Fuel Cell Property Line Noise Levels**

Sensitive Receptor	Distance from Fuel Cell, ft	Applicable Noise Limit, dBA	Calculated Fuel Cell Noise Level, dBA	Code Compliant?
13 Ruden St	165	57	38	Yes
19 Ruden St	165	56	40	Yes
21 Ruden St	175	55	41	Yes
1136 Campbell Ave	280	62	27	Yes
46 Ruden St	345	54	33	Yes
9 Ricardo St	445	45	31	Yes

As shown in the table above, fuel cell noise levels are compliant with local requirements as designed.

Figure 1. Property Line and Fuel Cell Locations



**Summary**

Veneklasen has reviewed the subject project proposed fuel cell property line noise levels as they pertain to the City noise requirements. Adjacent properties are zoned as residential and educational land.

As currently designed, fuel cell noise levels comply with City requirements. Therefore, no noise mitigation is required for the subject project.

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

Sincerely,  
**Veneklasen Associates, Inc.**

  
Kevin Patterson  
Associate

  
John LoVerde, FASA  
Principal

## A. 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

## B. 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:

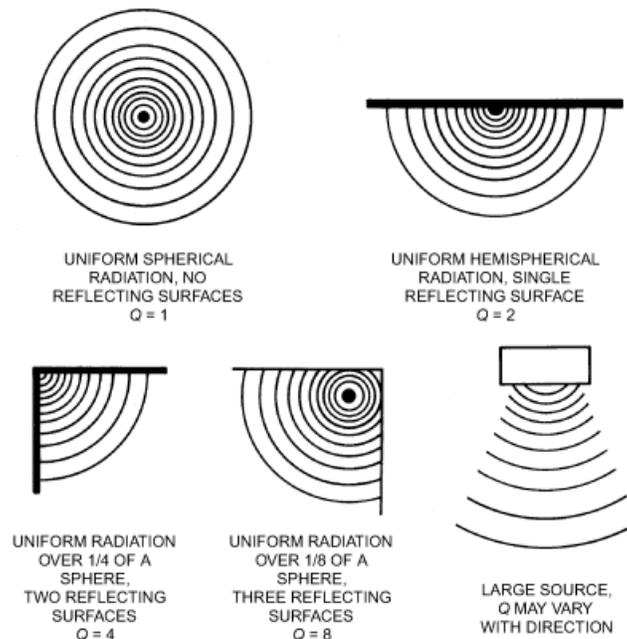
$d$  = The distance between the center of the fuel cell unit to the property line in feet.

$L_p$  = 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.

# Exhibit 8

# What Powers You

VIA CERTIFICATE OF MAILING

May 20, 2022

RE: Application of Bloom Energy for the location and construction of a Bloom Energy Server fuel cell installation to provide 300 kilowatts of Customer-Side Distributed Resource at the University of New Haven, 300 Boston Post Road, West 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 25, 2022, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of a 300-kilowatt fuel cell installation and associated equipment at the University of New Haven campus at 300 Boston Post Road in West Haven, Connecticut (the "Site"). The Facility will be located in the southeastern part of the campus.

The purpose of the proposed Facility is to replace a portion of the University's annual load with a renewable energy source<sup>1</sup> 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](mailto:Kristen.grillo@bloomenergy.com)

---

<sup>1</sup>Connecticut General Statutes §16-1(a)(26)(A) identifies fuel cells as a "Class I renewable energy source".



Bloom Energy Corporation  
4353 North First Street, San Jose, CA 95134  
408 543 1500  
[www.bloomenergy.com](http://www.bloomenergy.com)

**ABUTTING PROPERTY OWNERS**

subject parcel

Property ID	Property Address	Owner Name	Mailing Address	Town	State	Zip
060-0035-0-0000	300 Orange Avenue	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0037-0-0000	Orange Avenue	Gannett Outdoor Co. of Conn., c/o NextMedia Outdoor	201 Christian Ln., Ste A	Berlin	CT	06037
060-0034-0-0000	1146 Campbell Avenue	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0033-0-0000	1140 Campbell Avenue	Jason M. Winters	1140 Campbell Ave.	West Haven	CT	06516
060-0032-0-0000	1136 Campbell Avenue	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0019-0-0000	15 Ruden Street	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0018-0-0000	21 Ruden Street	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0017-0-0000	Ruden Street	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0028-0-0000	1092 Campbell Avenue	University of New Haven	300 Orange Ave.	West Haven	CT	06516
060-0020-0-0000	46 Ruden Street	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0021-0-0000	17 Ricardo Street	Juan Gonzalez aka Juan Gonzalez-Vera & Carlota A. Gonzalez-Vera	17 Ricardo St.	West Haven	CT	06516
060-0024-0-0000	20 Ricardo Street	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0025-0-0000	92 Ruden Street	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0016-0-0000	105 Ruden Street	University of New Haven	105 Ruden Street	West Haven	CT	06516
060-0012-0-0000	15 Ruden Place	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0011-0-0000	19 Ruden Place	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0010-0-0000	33 Ruden Place	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0039-0-0000	420 Orange Avenue	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0038-0-0000/ 060-0038-0000A	390 Orange Avenue	University of New Haven	390 Orange Ave.	West Haven	CT	06516
060-0055-0-0000	441 Orange Avenue	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0070-0-0000	419 Orange Avenue	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0071-0-0000	403 Orange Avenue	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0091-0-0000	381 Orange Avenue	University of New Haven	300 Boston Post Rd.	West Haven	CT	06516
060-0092-0-0000	363 Orange Avenue	David W. Moulton & Evelyn S. Moulton	137 Laurel Rd.	New Haven	CT	06515
060-0093-0-0000	339 Orange Avenue	David W. Moulton	P.O. Box 1482	New Haven	CT	06506
060-0094-0-0000	41 Linde Street	Shireen Majeed & Ghanim Abdelaziz	41 Linde St.	West Haven	CT	06516
060-0095-0-0000	333 Orange Avenue	Joseph T. & Mary Ann Genovese	323 Orange Ave.	West Haven	CT	06516

**OFFICIALS**

<b>Name</b>	<b>Title</b>	<b>Mailing Address</b>	<b>Town</b>	<b>State</b>	<b>Zip</b>
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 Paslick Gillett	Chairman, Public Utilities Regulatory Authority	10 Franklin Square	New Britain	CT	06051
Dr. Manisha Juthani	Commissioner, Dept. of Public Health	410 Capitol Ave.	Hartford	CT	06134
Susan D. Merrow	Chair, 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
Joseph Giulietti	Commissioner, Dept. of Transportation	2800 Berlin Turnpike	Newington	CT	06111
David Lehman	Commissioner, Dept. of Economic and Community Development	450 Columbus Blvd.	Hartford	CT	06103
Brenda Bergeron	Deputy Commissioner, Dept. of Emergency Management and Homeland Security	1111 Country Club Rd.	Middletown	CT	06457
Michelle H. Seagull	Commissioner, Dept. of Consumer Protection	450 Columbus Blvd., Suite 901	Hartford	CT	06103
Josh Geballe	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	Hartford	CT	06106-1591
Treneé McGee	Representative, 116th District	Legislative Office Building, Room 4003	Hartford	CT	06106-1591
	South Central Regional Council of Governments	127 Washington Ave., 4th Floor West	North Haven	CT	06473
Nancy R. Rossi	Mayor, City of West Haven	355 Main St.	West Haven	CT	06516
Christopher Soto	Director of Planning and Development	355 Main St.	West Haven	CT	06516
Kathleen Hendricks	Chairwoman, Planning and Zoning Commission	355 Main St.	West Haven	CT	06516
William Kane	Chairman, Inland Wetlands Watercourse Agency	355 Main St.	West Haven	CT	06516
	Zoning Board of Appeals	355 Main St., Third Floor	West Haven	CT	06516
Justin Elicker	Mayor, City of New Haven	165 Church St., 2nd Floor	New Haven	CT	06510
Aicha Woods	Executive Director, City Plan	165 Church St., 5th Floor	New Haven	CT	06510

Leslie Radcliff	Chair, City Plan Commission	165 Church St., 5th Floor	New Haven	CT	06510
Mildred Melendez	Chair, Board of Zoning Appeals	165 Church St., 5th Floor	New Haven	CT	06510



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4.	Dr. Manisha Juthani, Commissioner Department of Public Health 419 Capitol Ave. Hartford, CT 06134				
5.	Susan D. Merrow, Chair Council on Environmental Quality 79 Elm St. Hartford, CT 06106				
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3.	David Lehman, Commissioner Department of Economic and Community Development 450 Columbus Blvd., Suite 5 Hartford, CT 06103					
4.	Brenda Bergeron, Dep. Commissioner Division of Emergency Management and Homeland Security 1111 Country Club Rd. Middletown, CT					
5.	Michelle H. Seagull, Commissioner Department of Consumer Protection 450 Columbus Blvd., Suite 901 Hartford, CT 06103					
6.	Josh Geballe, Commissioner Department of Administrative Services 450 Columbus Blvd Hartford, CT 06103					



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<p>2.</p>	<p>Hon. Richard Blumenthal Senator 706 Hart Senate Office Building Washington, DC 20510</p>			
<p>3.</p>	<p>Hon. Chris Murphy Senator 136 Hart Senate Office Building Washington, DC 20510</p>			
<p>4.</p>	<p>Hon. Rosa DeLauro U.S. Representative 2413 Rayburn House Office Building Washington, DC 20515</p>			
<p>5.</p>	<p>Hon. Gary A. Winfield Senator, 10th District Legislative Office Building, Room 3300 Hartford, CT 06106-1591</p>			
<p>6.</p>	<p>Hon. Trenee McGee Representative, 116th District Legislative Office Building, Room 4003 300 Capitol Ave. Hartford, CT 06106-1591</p>			
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<p>2. _____</p>	<p>Honorable Nancy R. Rossi Mayor, City of West Haven 355 Main St. West Haven, CT 06516</p>		
<p>3. _____</p>	<p>Christopher Sete Director of Planning and Development 355 Main St. West Haven, CT 06516</p>		
<p>4. _____</p>	<p>Kathleen Hendricks, Chairwoman Planning and Zoning Commission 355 Main St. West Haven, CT 06516</p>		
<p>5. _____</p>	<p>William Kane, Chairman Inland Wetlands Watercourse Agency 355 Main St. West Haven, CT 06516</p>		
<p>6. _____</p>	<p>Zoning Board of Appeals 365 Main St. West Haven, CT 06516</p>		



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3.	Leslie Redcliff Chair, City Plan Commission 165 Church St., 5th Floor New Haven, CT 06510					
4.	Mildred Melendez Chair, Board of Zoning Appeals 165 Church St., 5th Floor New Haven, CT 06510					
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1.	University of New Haven 300 Boston Post Rd. West Haven, CT 06516					
2.	University of New Haven 300 Orange Ave. West Haven, CT 06516					
3.	University of New Haven 390 Orange Ave. West Haven, CT 06516					
4.	Gannett Outdoor Co. of Conn. c/o NextMedia Outdoor 201 Christian Ln., Ste A Berlin, CT 06037					
5.						
6.						



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2.	Juan Gonzalez aka Juan Gonzalez-Vera & Carlota A. Gonzalez-Vera					
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	West Haven, CT 06516					
3.	David W. Moulton & Evelyn S. Moulton					
	137 Laurel Rd.					
	New Haven, CT 06515					
4.	David W. Moulton					
	P.O. Box 1482					
	New Haven, CT 06506					
5.	Shireen Majeed & Ghanim Abdelaziz					
	41 Linde St.					
	West Haven, CT 06516					
6.	Joseph T. & Mary Ann Genovese					
	323 Orange Ave.					
	West Haven, CT 06516					

# Exhibit 9

**From:** [Jennifer Young Gaudet](#)  
**To:** ["csoto@westhaven-ct.gov"](mailto:csoto@westhaven-ct.gov)  
**Subject:** Bloom Energy - University of New Haven, 300 Orange Avenue, West Haven  
**Date:** Wednesday, May 4, 2022 8:33:00 PM  
**Attachments:** [image001.png](#)  
[UNH000-Site Plans 05.03.22.pdf](#)

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Dear Mr. Soto:

I am writing on behalf of Bloom Energy in connection with a planned fuel cell installation at the University of New Haven campus. Attached is an aerial site plan depicting the proposed installation, which will consist of one 300-kW energy server and associated equipment, and be fueled by natural gas. As shown, the installation will be in the southeastern section of the West Haven Campus, northwest of the intersection of Campbell Avenue and Ruden Street.

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 or officials 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 the number below or by e-mail.



**JENNIFER YOUNG GAUDET**

Program Manager

**D** | 860.581.4478 • **M** | 860.798.7454 • **W** |

[www.allpointstech.com](http://www.allpointstech.com)

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