

What Powers You

March 17, 2023

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 2,000-Kilowatt Fuel Cell Customer-Side Distributed Resource at Central Connecticut State University, 2004 Wells Street, New Britain, 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 2,000-kilowatt fuel cell and associated equipment at Central Connecticut State University ("CCSU") in New Britain, Connecticut (the "Facility"). The Facility will be installed at 2004 Wells Street within the parcel known as 1615 Stanley Street, which is the CCSU campus. Electricity generated by the Facility will benefit CCSU'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
(917) 803-4511



Bloom Energy Corporation
4353 North First Street, San Jose, CA 95134
408 543 1500
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 :
2,000-KILOWATT FUEL CELL CUSTOMER-SIDE :
DISTRIBUTED RESOURCE AT CENTRAL :
CONNECTICUT STATE UNIVERSITY, :
NEW BRITAIN, CT : MARCH 17, 2023

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 Central Connecticut State University (“CCSU”), 1615 Stanley Street, New Britain, Connecticut (the “Site”). Bloom will install a fuel cell consisting of seven (7) ES-5 Bloom Energy Server solid oxide fuel cells and associated equipment (the “Facility”) that will provide a total of 2,000 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 20-year power purchase agreement with the Connecticut State Colleges & Universities (“CSCU”) 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:

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III. DISCUSSION

A. The Facility

The Facility will be a 2,000-kW customer-side distributed resource consisting of seven (7) Bloom solid oxide fuel cell Energy Servers, one (1) model ES5-EAXAAL, four (4) model ES5-2750US0501S-NASK10-0, two (2) model ES5-3250US0601S-NASK10-0; 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 adjacent to the Copernicus Parking Garage in the southern portion of the Site.¹ A new paved equipment

¹ The Site is identified as 1615 Stanley Street and encompasses the CCSU campus as a whole; the address associated with the Energy Center with which the Facility will be connected is 2004 Wells Street.

area will be installed south of the parking lot in an area that also contains utility and mechanical infrastructure.

Connections to existing communication and water utilities will extend underground from the equipment area to the Energy Center, which is located east of the Copernicus Garage. Connection to existing electrical service will be at an existing switch located near the northwest corner of the Copernicus Garage. The Facility will be fueled by natural gas supplied by Connecticut Natural 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 2,000 kW based on consultation with CCSU's representatives and analysis of CCSU'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 42% of CCSU'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 20-year contract with CSCU. At the conclusion of the 20-year contract, CSCU 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 is anticipated to be filed with Eversource in late March, 2023; approval is anticipated in the third quarter of 2023.

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

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 Britain (“City”) Fire Department personnel and CCSU’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 853.² 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 16-50ii³.

C. Existing and Proposed Environment

i. The Site

The Site is an approximately 119-acre parcel located in the east central part of the City. It is developed with multiple academic, administrative and operational buildings, sports facilities, and associated roadways and parking lots. The Site is zoned OP – Office and Public.

The surrounding area contains a mix of residential (single and multi-family) and commercial development, with municipal park land across Stanley Street, northwest of the Site. State Route 9 and the Town of Newington are to the east; Stanley Street is to the west.

The fuel cell installation will be located in the eastern portion of the Site, at the north side of the Copernicus Parking Garage and west of CCSU’s Energy Center. A concrete surface approximately 4300 square feet will be installed on which the equipment will be placed. The Facility is designed to take advantage of existing infrastructure, particularly proximity to the

² Standard for the Installation of Stationary Fuel Cell Power Systems, 2015 Edition

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

Energy Center. After construction, there will be no impact on the Garage or nearby paths and structures.

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 2022 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 immediate surrounding vicinity are heavily developed with buildings and paved surfaces. The addition of the Facility within a limited area in proximity to multiple structures and areas heavily utilized by vehicles and pedestrians will have no effect on wildlife habitat.

iii. Wetlands and Watercourses

Wetlands are identified on DEEP state wetland mapping as extending into a small area of the northeastern portion of the Site, adjacent to State Route 9. The nearest mapped wetlands are off-Site at a distance of approximately 0.25 mile, to the east and also adjacent to State Route 9. Given the distance and intervening development, there would not be any direct or indirect effect on the mapped wetland or watercourse resources. 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. A 100-year flood zone is south of the Copernicus Garage and others are mapped at and near the Site perimeters.

The Site was also reviewed for proximity to Aquifer Protection Areas. According to GIS data provided by DEEP, the Facility is approximately 2.75 miles northwest of the nearest Aquifer Protection Area.

v. Cultural Resources

The Site, 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 672-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.⁴ 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) program⁵, 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_x, SO_x, CO, and VOCs from the energy production process. Similarly, there are no CH₄, SF₆, HFC or PFC emissions.

Table 1: Connecticut Thresholds for Greenhouse Gases

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

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

⁵ Sec. 16-244t

⁶ 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 13.6% while essentially eliminating local air pollutants like NOx and SOx.

The City’s Plan of Conservation and Development adopted in December 2021 identifies sustainability and promotion of green energy as a goal, referencing specific instances of fuel cell use within the City. The City’s Zoning Regulations, updated through 2022, are silent as to renewable energy generally and fuel cells specifically.

iii. Sound Levels

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

Bloom retained Veneklasen Associates to evaluate the impact of noise from the proposed Facility on nearby properties south and east of the proposed Facility. *See Exhibit 7, Veneklasen Associates Property Line Noise Analysis (“Report”).* As indicated in the Report, calculated noise levels at nearby receptors are within the limits established by the City. They are also within the limits of State regulations.

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 limited to portions of the Site. The Copernicus Garage will block views from the south; views from other directions will be interrupted by other structures and terrain variations. The Facility will be visible from pedestrian walkways in the vicinity of the Facility. The incremental visual effect of the Facility is anticipated to be minimal.

E. Project Construction and Maintenance

Bloom anticipates construction to start in the second quarter of 2024 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. Steven P. Schiller, City Planner, by email on March 2, 2023 and provided plans for the proposed Facility for review and comment. Neither Mr. Schiller 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.

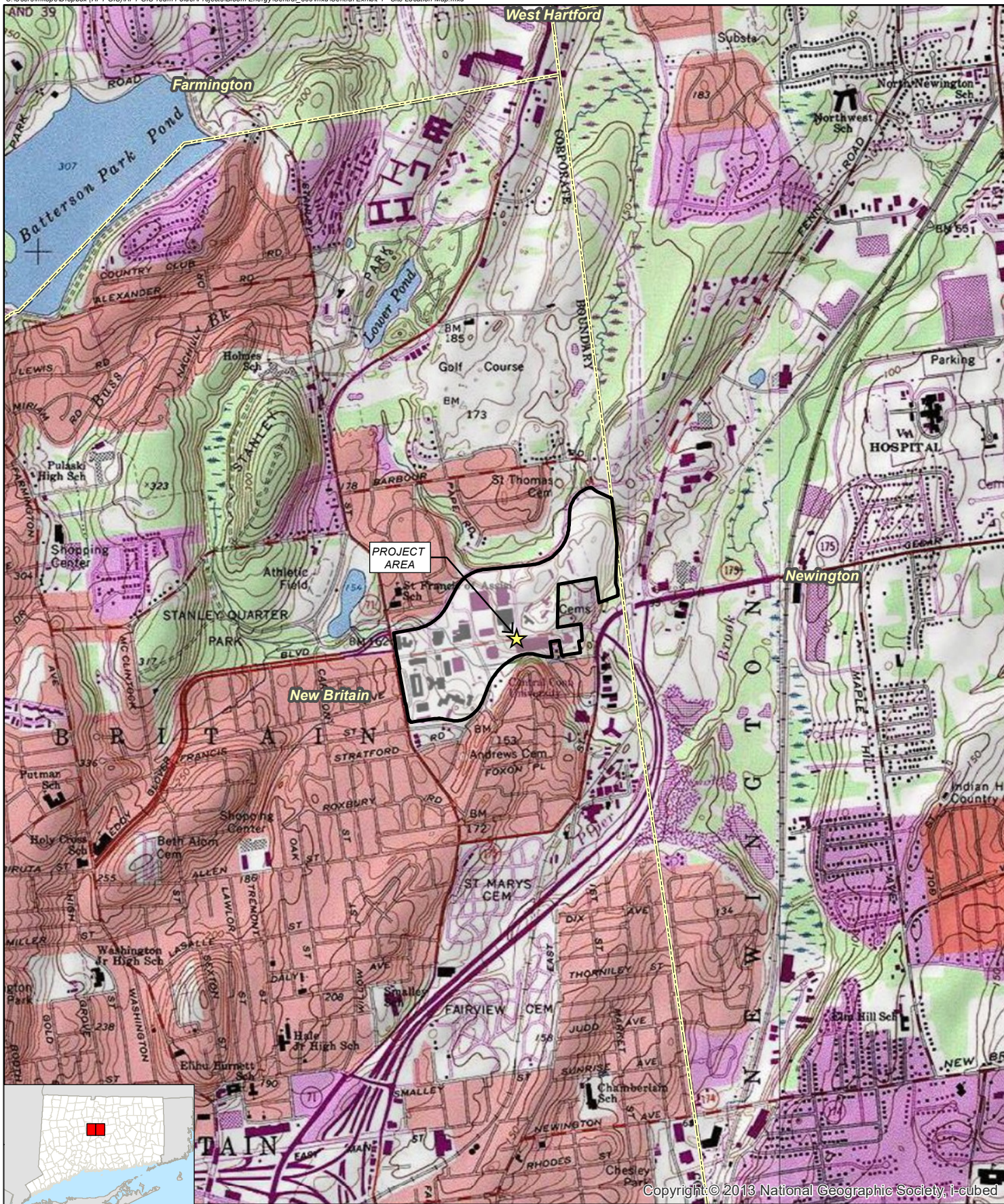
Respectfully submitted,

Bloom Energy Corporation

By: 




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Exhibit 1

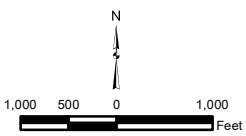


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Legend

-  Project Area
-  Site
-  Municipal Boundary (CTDEEP)

Map Notes:
 Base Map Source: USGS 7.5 Minute
 Topographic Quadrangle Map: Hartford South, CT (1992)
 and New Britain, CT (1992)
 Map Scale: 1:24,000
 Map Date: March 2023



**Exhibit 1
 Site Location Map**

Proposed Bloom Energy Facility
 Central Connecticut State University
 2004 Wells Street
 New Britain, Connecticut



Exhibit 2



- Legend**
- Proposed Bloom Energy Equipment
 - Proposed Service area
 - Site
 - Abutting Property
 - Approximate Parcel Boundary
 - Municipal Boundary
 - Proposed Electrical Service
 - Proposed Gas Service
 - Proposed Water Service
 - Proposed Data Service

Map Notes:
 Base Map Source: 2019 CTECO Aerial Imagery
 Map Scale: 1 inch = 600 feet
 Map Date: March 2023

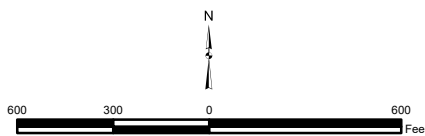
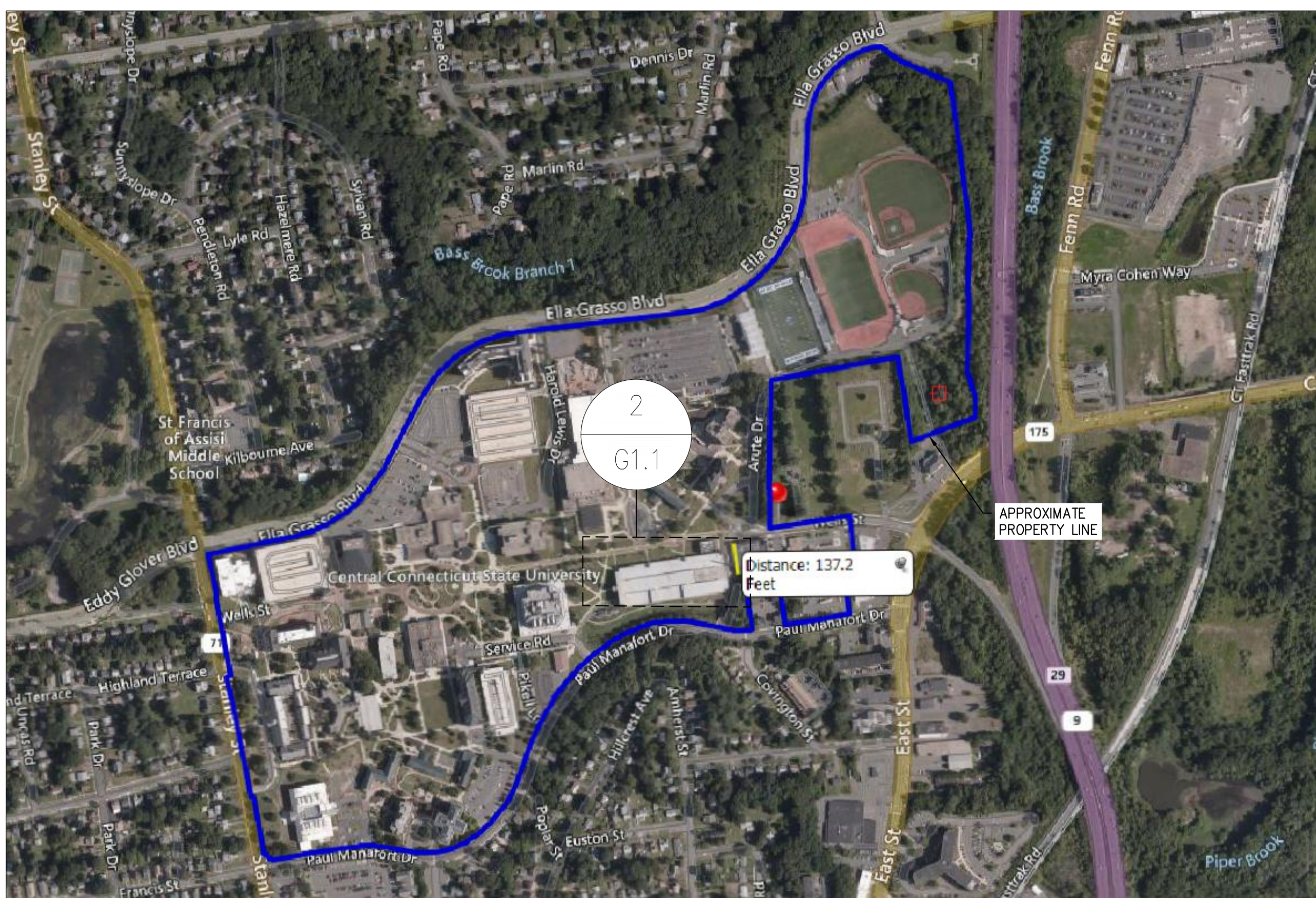


Exhibit 2 Site Vicinity

Proposed Bloom Energy Facility
 Central Connecticut State University
 2004 Wells Street
 New Britain, Connecticut



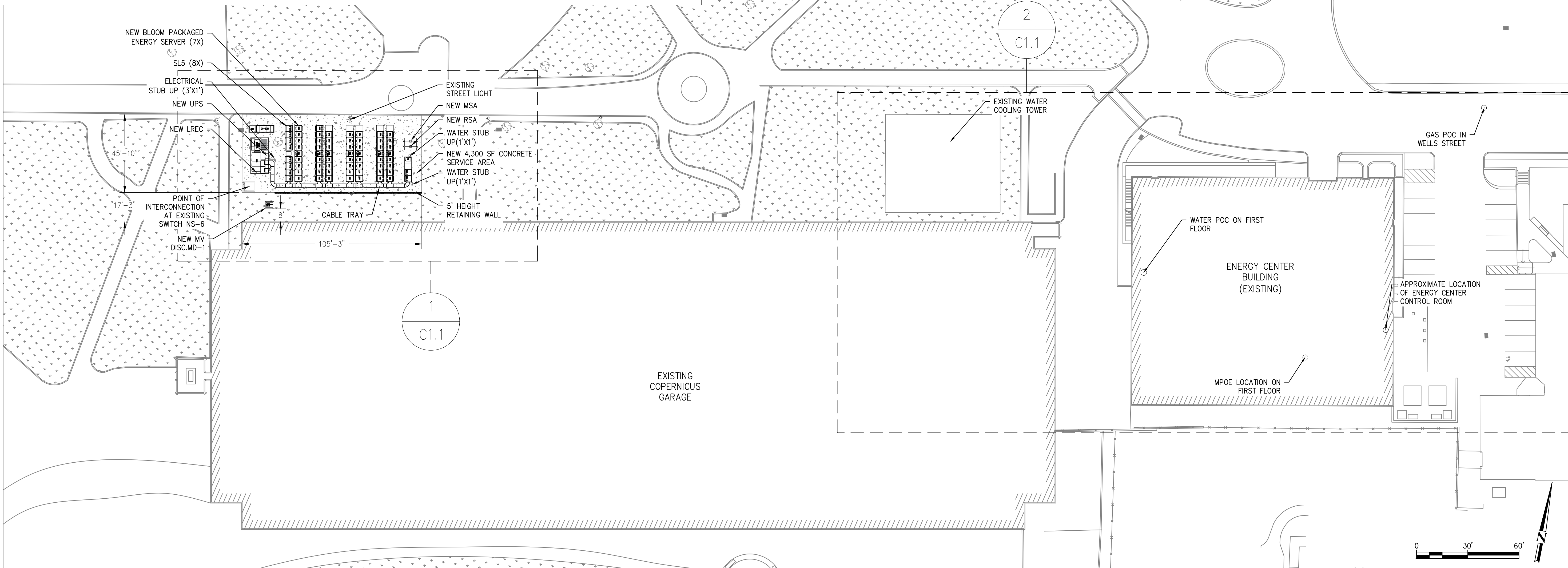
Exhibit 3



KEY SITE PLAN

SCALE: = NTS

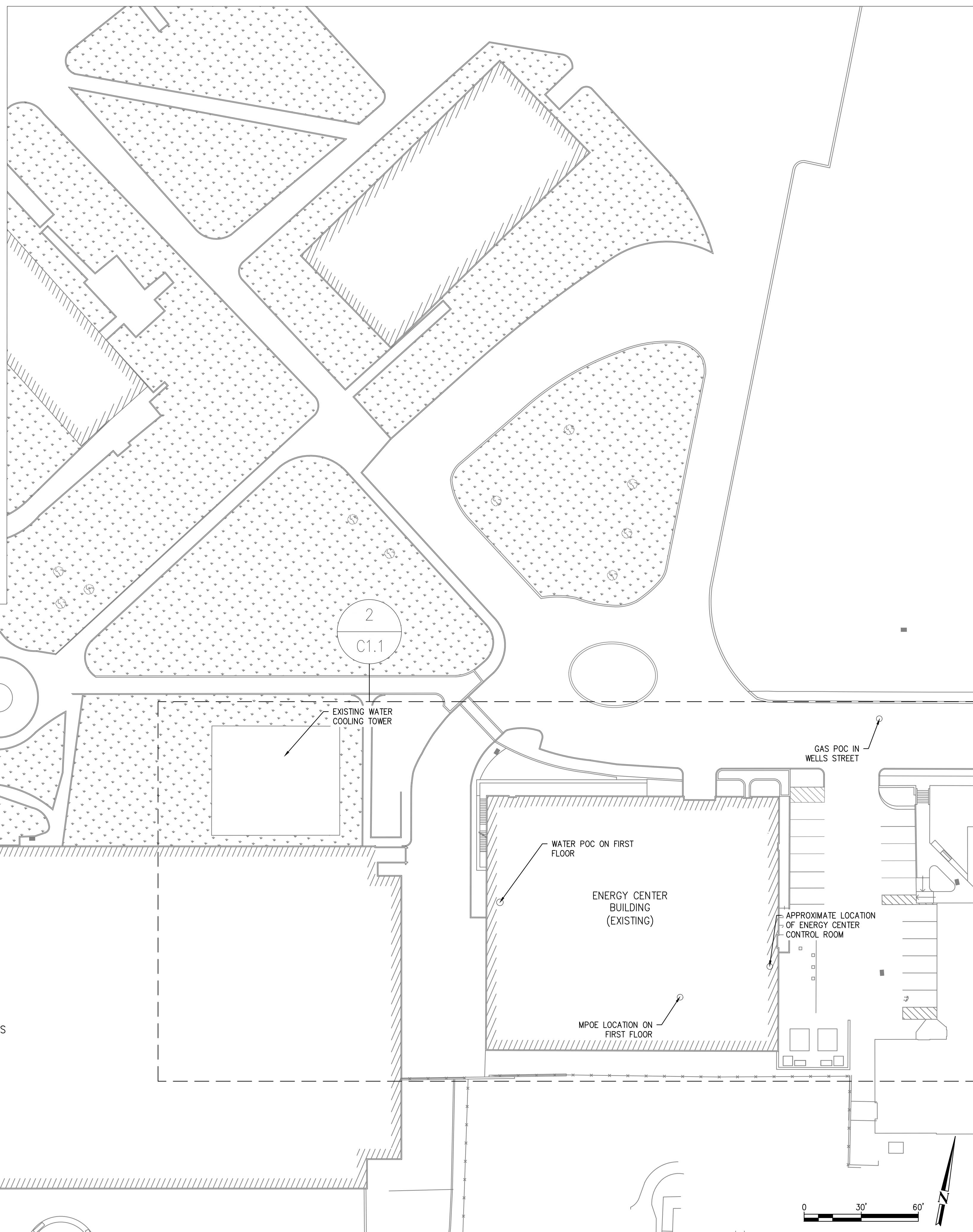
1
G1.1



GENERAL SITE PLAN

SCALE: 1" = 30'

2
G1.1



CUSTOMER SITE

CONNECTICUT STATE COLLEGES AND UNIVERSITIES
2004 WELLS STREET
NEW BRITAIN, CT 06053



RELEASE HISTORY

REV	ISSUE PURPOSE	DATE
-	INITIAL RELEASE	02/015/2023

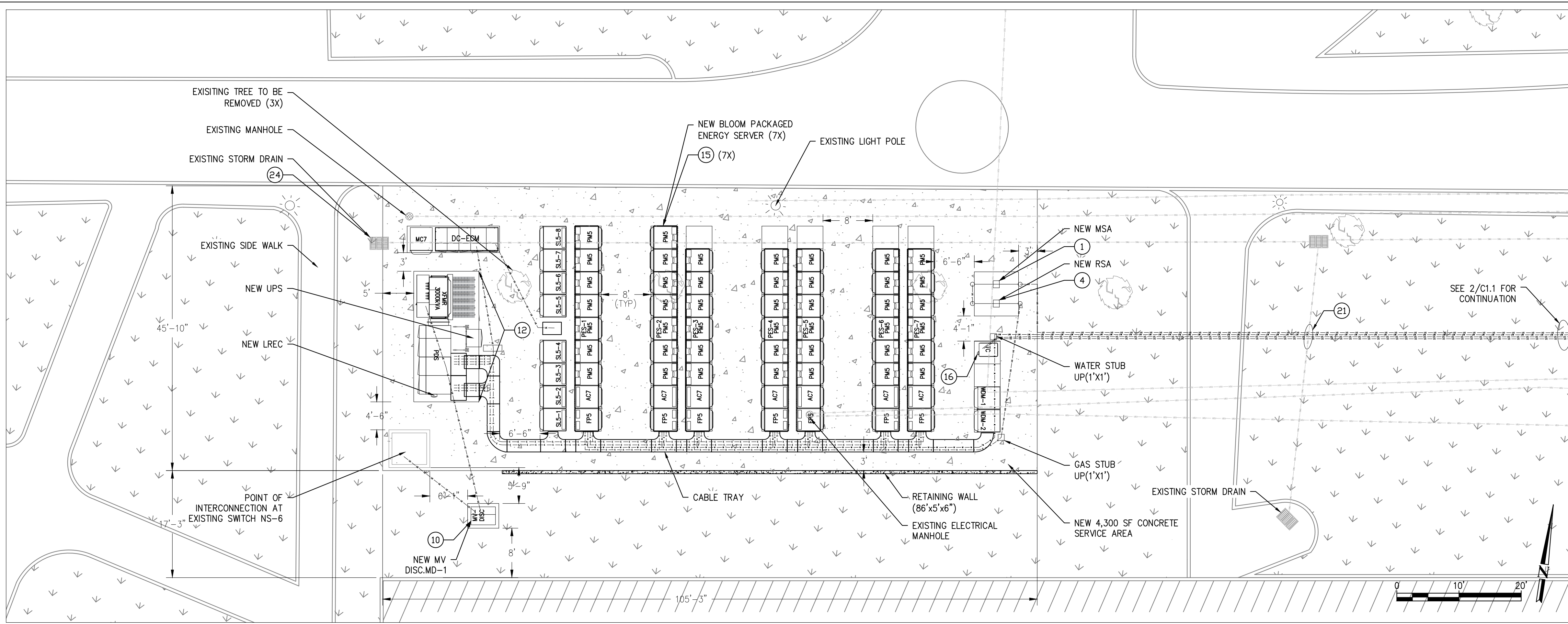
DESIGNED BY KATE TAYLOR	REVIEWED BY
DRAWN BY TANUJA S K	APPROVED BY

SHEET TITLE
GENERAL SITE PLAN

DRAWING NUMBER
G1.1

BLOOM ENERGY DOCUMENT NUMBER
DOC-1015260

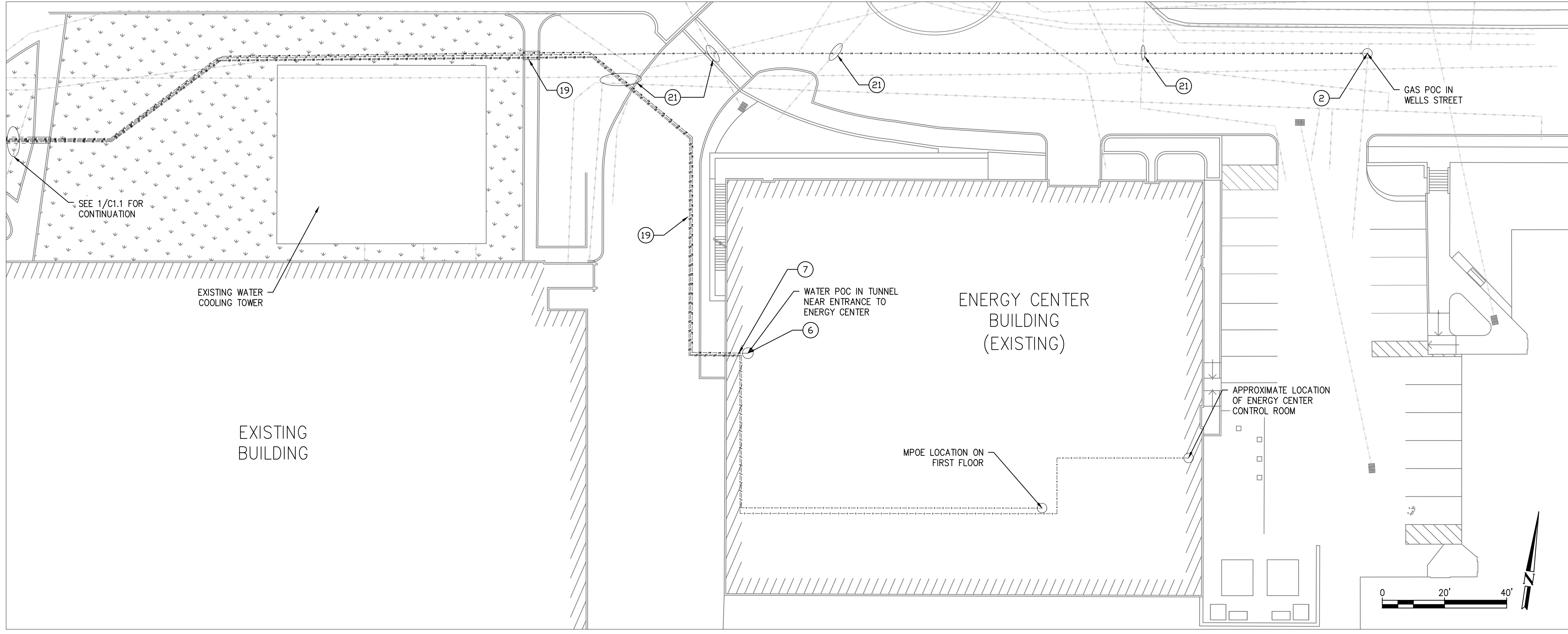
THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: CTU008.0 SHEET 03 OF 16



UTILITY SITE PLAN

SCALE: 1" = 10'

1
C1.1



UTILITY SITE PLAN

SCALE: 1" = 20'

2
C1.1

GENERAL NOTES

- CLEAN AND PRIME ALL 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.
- SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.
- 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. THE CONTRACTOR SHALL INSTALL SHIM PLATES IF AND WHERE NECESSARY. CONTRACTOR SHALL FIELD VERIFY IF SHIM PLATES ARE REQUIRED AND PROVIDE DIRECTIVE TO THE ENGINEER OF RECORD ACCORDINGLY WHERE THERE ARE GAPS BETWEEN THE EXISTING ASPHALT AND BOTTOM OF STEEL SKID. SEE PACKAGED ENERGY SERVER SKID SHIM DETAIL FOR ADDITIONAL INFORMATION.

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.
- FURNISH AND INSTALL PRIVATE GAS REGULATOR SET ASSEMBLY FOR BLOOM ENERGY SEVER WITH SHUT-OFF VALVE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- TAP EXISTING WATER LINE AT NEAREST ACCESSIBLE LOCATION IN BUILDING AS SHOWN WITH A LOCAL SHUT-OFF VALVE. IF INSTALLING A LOCAL BACKFLOW PREVENTION DEVICE PLEASE ENSURE THAT A CHECKVALVE IS ALSO INSTALLED. REFER TO DOMESTIC WATER CONNECTION DETAIL FOR ADDITIONAL REQUIREMENTS.
- FURNISH AND INSTALL WATER PIPE. REFER TO WATER 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 FURNISH AND INSTALL TWO GROUNDING RODS PLACED A MINIMUM OF 6' APART. 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 ENERGY SERVER EMERGENCY POWER-OFF SWITCH (EPO).
- 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.
- PROTECT EXISTING UNDERGROUND UTILITY LINES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE OF ANY DAMAGED LINES.
- PROVIDE "DANDY SACK" OR EQUAL WITH OUTFLOW PORTS AT STORM DRAIN INLET. REFER TO EROSION CONTROL DETAIL FOR ADDITIONAL REQUIREMENTS.



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PROPRIETARY AND CONFIDENTIAL

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CUSTOMER SITE

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DESIGNED BY KATE TAYLOR	REVIEWED BY
DRAWN BY TANUJA S K	APPROVED BY

SHEET TITLE

UTILITY SITE PLAN

DRAWING NUMBER

C1.1

BLOOM ENERGY DOCUMENT NUMBER

DOC-1015260

THIS DRAWING IS 24" X 36" AT FULL SIZE

SITE ID: CTU008.0 SHEET 04 OF 16

Exhibit 4

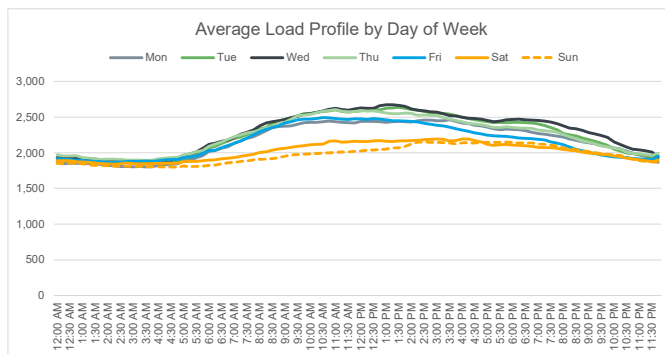
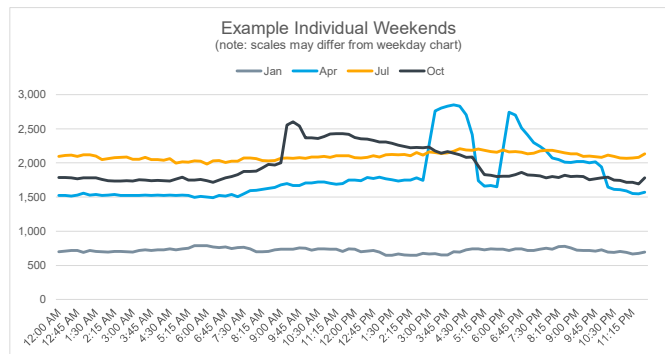
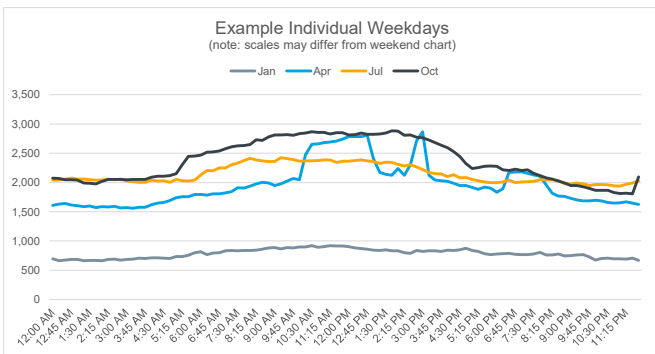
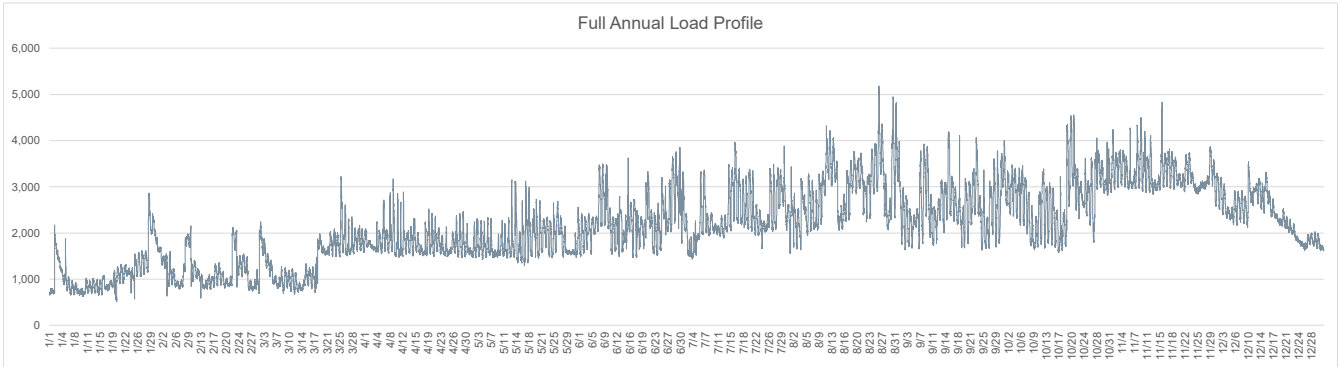
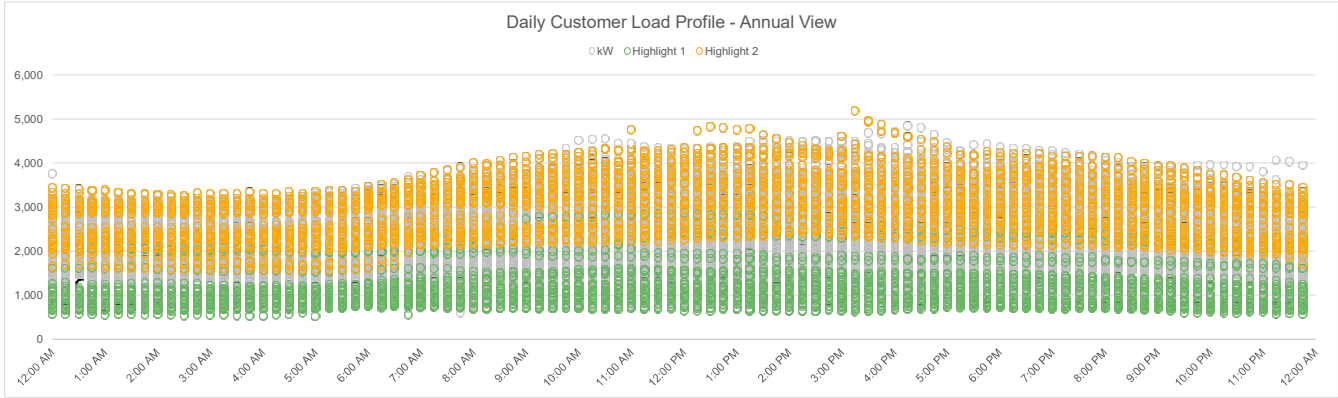
SITE DETAILS	
Utility Tariff	CT - EVR-CT 58-P
Customer Name	Central State University
Site Name or Address	WELLS ST NEW BRITAIN CT 06053
Utility Account Number	
Meter Number	445552060, 537715039
NOTES	
[Notes here]	

SIZING SUMMARY	
Total Days of Complete, Non-Zero Data	365
Annual Load Factor	42%
Total Customer Usage	18,923,081 kWh
Average 15-Min kW	2,160 kW
Average Peak Demand	3,722 kW
Absolute Minimum kW (non-zero)	514 kW
Estimated Average Baseload	1,950 kW
Proposed System Size	2,000 kW
Estimated Resulting Net Metering	6.71%

POWER FACTOR SUMMARY [NOT PRINTED]	
Power Factor from Customer Bill	90%
kVars at Peak Demand	413.51
Inverter Nameplate Required	450

Central State University - WELLS ST NEW BRITAIN CT 06053 (Acct ; Meter 5039) - 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.



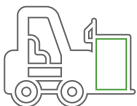
Reliable

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-EAXAAL)	
Outputs			
Nameplate power output (net AC)	250kW		
Load output (net AC)	250kW		
Electrical connection	480V, 3-phase, 60 Hz		
Inputs			
Fuels	Natural gas, directed biogas		
Input fuel pressure	10-18 psig (15 psig nominal)		
Water	None during normal operation		
Efficiency			
Cumulative electrical efficiency (LHV net AC) ¹	65-53%		
Heat rate (HHV)	5,811-7,127 Btu/kWh		
Emissions²			
NOx	0.0017 lbs/MWh		
SOx	Negligible		
CO	0.034 lbs/MWh		
VOCs	0.0159 lbs/MWh		
CO ₂ @ stated efficiency	679-833 lbs/MWh on natural gas; carbon neutral on directed biogas		
Physical Attributes and Environment			
Weight	13.6 tons		
Dimensions (variable layouts)	14'4" x 8'8" x 6'9" or 28'8" 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		
Codes and Standards			
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.			
Additional Notes			
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			
¹ 65% LHV efficiency verified by ASME PTC 50 Fuel Cell Power Systems Performance Test			
² 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.

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Energy Server 5.5

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

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Energy Server 5.5

Technical Highlights (E55-3250US0601S-NASK10-0)

Outputs

Nameplate power output (net AC)	325kW
Load output (net AC)	325kW
Electrical connection	480V, 3-phase, 60Hz

Inputs

Fuels	Natural gas
Input fuel pressure	12-18 psig (15 psig nominal)12-18 psig (15 psig nominal)Natural gas
Water	None during normal operation

Efficiency

Cumulative electrical efficiency (LHV net AC) ¹	65-53%
Heat rate (HHV)	5,811-7,127 Btu/kWh

Emissions²

NOx	0.0017 lbs/MWh
SOx	Negligible
CO	0.034 lbs/MWh
VOCs	0.0159 lbs/MWh
CO ₂ @ stated efficiency	679-833 lbs/MWh on natural gas; carbon neutral on directed biogas

Physical Attributes and Environment

Weight	14.1 tons
Dimensions (variable layouts)	17'11" x 8'8" x 7'0" or 32'3" x 4'4" x 6'9"
Temperature range	-20° to 45° C
Humidity	0%-100%
Seismic vibration	IBC site class D
Location	Outdoor
Noise	<70 dBA @ 6 feet

Codes and Standards

Complies with Rule 21 interconnection and IEEE1547 standards
 Exempt from CA Air District permitting; meets stringent CARB 2007 emissions standards
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Additional Notes

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 Remotely managed and monitored by Bloom Energy

Capable of emergency stop based on input from the site

¹ 65% LHV efficiency verified by ASME PTC 50 Fuel Cell Power Systems Performance Test

² NOx and CO measured per CARB Method 100, VOCs measured as hexane by SCAQMD Method 25.3

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Energy Server 5.5

Technical Highlights (E55-2750US0501S-NASK10-0)

Outputs

Nameplate power output (net AC)	275kW
Load output (net AC)	275kW
Electrical connection	480V, 3-phase, 60Hz

Inputs

Fuels	Natural gas
Input fuel pressure	12-18 psig (15 psig nominal)12-18 psig (15 psig nominal)Natural gas
Water	None during normal operation

Efficiency

Cumulative electrical efficiency (LHV net AC) ¹	65-53%
Heat rate (HHV)	5,811-7,127 Btu/kWh

Emissions²

NOx	0.0017 lbs/MWh
SOx	Negligible
CO	0.034 lbs/MWh
VOCs	0.0159 lbs/MWh
CO ₂ @ stated efficiency	679-833 lbs/MWh on natural gas; carbon neutral on directed biogas

Physical Attributes and Environment

Weight	12 tons
Dimensions (variable layouts)	14'4" x 8'8" x 7'0" or 28'8" x 4'4" x 6'9"
Temperature range	-20° to 45° C
Humidity	0%-100%
Seismic vibration	IBC site class D
Location	Outdoor
Noise	<70 dBA @ 6 feet

Codes and Standards

Complies with Rule 21 interconnection and IEEE1547 standards

Exempt from CA Air District permitting; meets stringent CARB 2007 emissions standards

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Looking southwest toward Facility location



Looking west toward Facility location



Looking east from Facility location;
water cooling tower and Energy Center stack in background

Exhibit 5



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

Map Notes:
 Not All Legend Items May Be Located Within Map Extent
 Base Map Source: 2019 CTECO Aerial Imagery
 Map Scale: 1 inch = 600 feet
 Map Date: March 2023

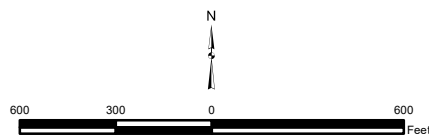


Exhibit 5 Environmental Resources

Proposed Bloom Energy Facility
 Central Connecticut State University
 2004 Wells Street
 New Britain, Connecticut



Exhibit 6



Fire Prevention and Emergency Planning – Grid Parallel

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

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4. Fire and Smoke Procedures
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6. Materials Release Procedures
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 - 7.1 Earthquake
 - 7.2 Flood
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 - 9.1 Good Housekeeping
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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

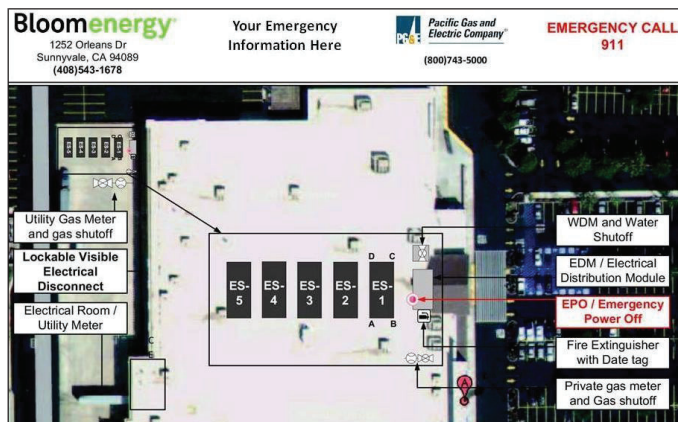


Figure 4: Sample Site Map

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:

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.

Exhibit 7

February 16, 2023

Bloom Energy

4353 North 1st Street
 San Jose, California 95134

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

Subject: **Central Connecticut State University; CTU008.0; New Britain, Connecticut
 Property Line Noise Analysis
 Veneklasen Project No. 4631-045**

Dear Brandon:

Veneklasen Associates, Inc. (Veneklasen) was contracted to evaluate noise impact of proposed fuel cells for the subject project in New Britain, 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 New Britain Code of Ordinances, Article V, Section 16-104 classifies noise zones within the City according to the zoning applicable for the parcels on which noise is being emitted and received. These noise zones appear in Table 1 below.

Table 1. New Britain Noise Zones

Zone	Actual or Intended Use	Current Zoning
A	Residential	S-1, S-2, S-3, T, A-1, A-2, A-3, RO
B	Commercial	OP, B-1, B-2, B-3, B-4, TP
C	Industrial	I-1, I-2, I-3

In addition, Section 16-105 provides property line noise limits for each of the above noise zone adjacencies. These are summarized in Table 2.

Table 2. City of New Britain Noise Limits

Emitter Noise Zone	Receptor Noise Zone			
	C	B	A-Day	A-Night
C	70 dB(A)	66 dB(A)	61 dB(A)	51 dB(A)
B	62 dB(A)	62 dB(A)	55 dB(A)	45 dB(A)
A	62 dB(A)	55 dB(A)	55 dB(A)	45 dB(A)

There is no provision for cases where the ambient noise levels exceed the stated noise limits.

According to the current New Britain Zoning Map, the subject property is zoned OP, Office and Public, which is Noise Zone B (Commercial). Two receptors analyzed (39 Wells St. and 274 Paul Manafort Sr. Dr.) are also zoned OP (Commercial). The remaining receptors are zoned S2 or S3; these are in Noise Zone A (Residential).

In the following analysis, fuel cell noise levels are compared to the applicable limits described above. Veneklasen assumes proposed fuel cells will run 24-hours per day.

Existing Ambient Noise

Because regulations do not provide an allowance when ambient levels exceed the maximums cited in Table 2, an analysis of ambient noise was not performed.

Property Line Noise Analysis

Drawings received January 26, 2023 indicate that proposed fuel cells will be installed at the location shown in green in Figure 1 below. The nearest sensitive receptors are annotated in blue.

Figure 1. Property Line and Fuel Cell Locations



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 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?
230 Hillcrest Ave.	375	45	26	Yes
274 Paul Manafort Sr. Dr.	485	62	< 20	Yes
39 Wells St.	600	62	32	Yes
65 Kilbourne Ave.	1200	45	< 20	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. City regulations provide maximum allowable noise levels according to the zoning of the emitting and receiving properties. Nighttime maximum noise levels, which are the most stringent, were used as the design standard to be met.

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
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							LwA
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
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

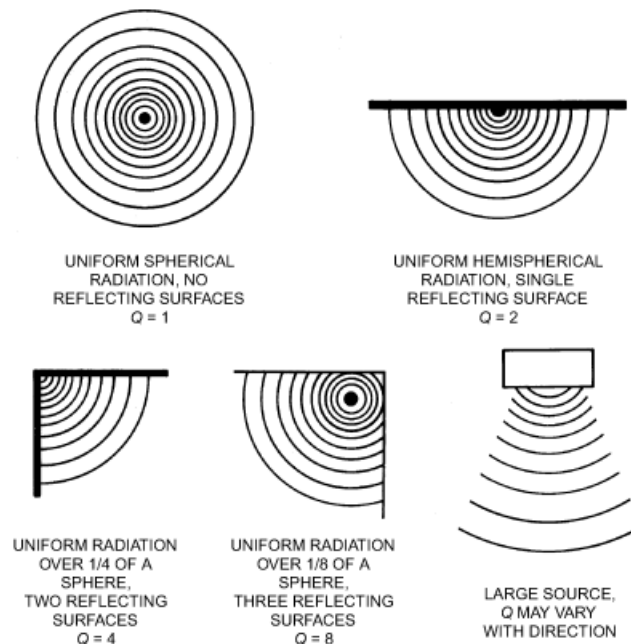


Fig. 30 Directivity Factors for Various Radiation Patterns

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

March 8, 2023

RE: Application of Bloom Energy for the location and construction of a Bloom Energy Server fuel cell installation to provide 2,00 kilowatts of Customer-Side Distributed Resource at Central Connecticut State University, 1615 Stanley Street (2004 Wells Street), New Britain, 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 March 17, 2023, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of a 2,000-kilowatt fuel cell installation and associated equipment. The Facility will be located at the Central Connecticut State University ("CCSU") campus, adjacent to the Copernicus Garage, in New Britain, Connecticut (the "Site").

The purpose of the proposed Facility is to replace a portion of CCSU's annual load with a renewable energy source¹ 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

¹Connecticut 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

ABUTTING PROPERTY OWNERS

subject parcel

Property ID	Property Address	Owner Name	Mailing Address	Town	State	Zip
A4C/3	1615 Stanley Street	State of Connecticut - CCSU	1615 Stanley St.	New Britain	CT	06053
A4B/21	200 Ella Grasso Boulevard	State of Connecticut - CCSU	1615 Stanley St.	New Britain	CT	06053
B4A/910	65 Kilbourne Avenue	Anthony T. Bianca, Jr. & Pamela Bianca	65 Kilbourne Ave.	New Britain	CT	06053
B4A/212	100 Ella Grasso Boulevard	State of Connecticut - CCSU	1615 Stanley St.	New Britain	CT	06053
A3D/31	380 Barbour Road	State of Connecticut - CCSU Board of Trustees	1615 Stanley St.	New Britain	CT	06053
A3D/231	413 Ella T. Grasso Boulevard	Iwo Jima Memorial Historical Foundation Inc.	133 Cook Rd.	Prospect	CT	06712
07/100/001	413 Ella T. Grasso Boulevard	Iwo Jima Memorial Historical Foundation Inc.	200 Garfield St.	Newington	CT	06111
unidentified	Route 9 Right-of-Way	State of CT Dept. of Transportation	2800 Berlin Turnpike, P.O. Box 317546	Newington	CT	06131-7546
A4D/13	1500 East Street	State of Connecticut - CCSU	1615 Stanley St.	New Britain	CT	06053
A4A/5	23 Wells Street	Trustees of Russian Orthodox & Greek Holy Church (CEM)	305 Washington St.	New Britain	CT	06053
A4A/4	39 Wells Street	The CCSU Foundation, Inc.	1615 Stanley St.	New Britain	CT	06053
A4D/12	1454 East Street	Sound Garrett New Britain LLC	50 Field St., Ste 108	Torrington	CT	06790
A4D/10	321 Paul Manafort Drive	CT Property Services LLC	27 Hitching Post Dr.	Southington	CT	06489
A4D/6	1412 East Street	The Bleu 1300 LLC	420 Central Ave., Ste 300	Cedarhurst	NY	11516
A4D/7	305 Paul Manafort Drive	Three Hundred Five Man LLC	20 Clover Hill Pl.	Berlin	CT	06037
A4C/39	45 Covington Street	State of Connecticut - CCSU	1615 Stanley St.	New Britain	CT	06053
A4C/37	274 Paul Manafort Drive	Two Hundred Seventy Four Paul Manafort Drive LLC	46 Blentwood Dr.	Glastonbury	CT	06033
A4C/49	46 Covington Street	Bertrand Turcotte	292 Pine St.	Bristol	CT	06010
A4C/50	50 Covington Street	Donald A. Langmaid	50 Covington St.	New Britain	CT	06053
A4C/53	56 Covington Street	Zachary Dearo	56 Covington St.	New Britain	CT	06053
A4C/54	60 Covington Street	My College Home LLC	140 Grove Hill St.	Berlin	CT	06037
A4C/55	66 Covington Street	State of Connecticut - CCSU	1615 Stanley St.	New Britain	CT	06053
A4C/155	241 Paul Manafort Drive	City of New Britain - Land	27 West Main St.	New Britain	CT	06051
A4C/163	230 Hillcrest Avenue	William Mark Allen & Juan C. Fuentes	224 Amherst St.	New Britain	CT	06053
A4C/65	191 Paul Manafort Drive	State of Connecticut - CCSU	1615 Stanley St.	New Britain	CT	06053
A5B/161	145 Paul Manafort Drive	Hartford Roman Catholic Dioc. Corp. (Neumann House)	134 Farmington Ave.	Hartford	CT	06105
A5B/155	21 Poplar Street	State of Connecticut - CCSU	1615 Stanley St.	New Britain	CT	06053
A5B/139	115 Paul Manafort Drive	Thomas J. Swistro Est.	473 East Cotton Hill Rd.	New Hartford	CT	06057
A5B/140	109 Paul Manafort Drive	Lenco Realty LLC	398 Stamm Rd.	Newington	CT	06111
A5B/141	101 Paul Manafort Drive	Sherree D. Sutton	101 Paul Manafort Dr.	New Britain	CT	06053
A5B/142	95 Paul Manafort Drive	Peter Badrigian	27 Welles Dr.	Newington	CT	06111-2626
A5B/143	89 Paul Manafort Drive	Lenco Realty LLC	398 Stamm Rd.	Newington	CT	06111
A5B/144	93 Sefton Drive	Jason C. Wowk	215 Roxbury Rd.	New Britain	CT	06053
A5B/145	85 Sefton Drive	Blue Star Properties LLC	48 Sefton Dr.	New Britain	CT	06053
A5B/146	81 Sefton Drive	David Larson	209 Amherst St.	New Britain	CT	06053-2575
B5A/22	55 Paul Manafort Drive	State of Connecticut - CCSU	1615 Stanley St.	New Britain	CT	06053
B5A/30	1517 Stanley Street	Levy Properties LLC	22 Avondale Rd.	West Hartford	CT	06117
B5A/160	1544 Stanley Street	Roxanne Price Trustee	2 Alford Dr.	Windsor	CT	06095-1629
B5A/188	1556 Stanley Street	Harold P. Rodriguez & Maria Jose Rodriguez-Arteaga	1556 Stanley St.	New Britain	CT	06053
B4D/89	1564 Stanley Street	One Thousand Five Hundred Sixty Four Stanley St LLC	134 Feldspar Ridge	Glastonbury	CT	06033
B4D/86	1568 Stanley Street	Sal Alhujaji	166 North Main St., Apt 3	Southington	CT	06489
B4D/85	1576 Stanley Street	Salvatore A. & Michael Lawrence Fiorillo & Michele Fiorillo	22 Jefferson Circle Unit B	Clinton	CT	06413
B4D/84	1584 Stanley Street	Kelly Ann Lagasse	1584 Stanley St.	New Britain	CT	06053
B4D/83	1590 Stanley Street	Nelson Castaneda & Nancy Castaneda	1590 Stanley St.	New Britain	CT	06053-2438
B4D/29	1600 Stanley Street	CCSU Housing LLC	1000 Orchard Rd.	Berlin	CT	06037
B4D/28	1614 Stanley Street	Hyung L. Min	84 Thunderbird Dr.	Southington	CT	06489
B4D/27	1620 Stanley Street	Inez Infante	1620 Stanley St.	New Britain	CT	06053
B4D/26	1626 Stanley Street	Todd R. Passan	1626 Stanley St.	New Britain	CT	06053
B4D/25	1634 Stanley Street	Rose M. Catanzaro & Diane Chrusciel et al.	1634 Stanley St.	New Britain	CT	06053
B4D/24	1646 Stanley Street	Richard Atashian	1646 Stanley St.	New Britain	CT	06053
B4D/23	1650 Stanley Street	Emmanuel Meleounis	38 Forest Dr.	Wethersfield	CT	06109
B4D/22	1654 Stanley Street	Hydrant Holdings LLC	71 Raymond Rd., Unit 101	West Hartford	CT	06107
B4D/21	1664 Stanley Street	One Thousand Six Hundred Sixty Four Stanley St LLC	166 North Main St., Apt 3	Southington	CT	06489
B4D/101	10 Eddy Glover Boulevard	City of New Britain - Park, Stanley Quarter Park South	27 West Main St.	New Britain	CT	06051
B3D/1	115 Eddy Glover Boulevard	City of New Britain - Park, Stanley Quarter Park (North End)	27 West Main St.	New Britain	CT	06051

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
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
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, 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
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
Jahana Hayes	U.S. Representative	2458 Rayburn House Office Building	Washington	DC	20515
Rick Lopes	State Senator, 6th District	Legislative Office Building, Room 3300	Hartford	CT	06106-1591
Peter Tercyak	Representative, 26th District	Legislative Office Building, Room 4017	Hartford	CT	06106-1591
	Capitol Region Council of Governments	241 Main St.	Hartford	CT	06106-5310
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	Chairperson, Conservation Commission	28 West Main St., Room 208	New Britain	CT	06051
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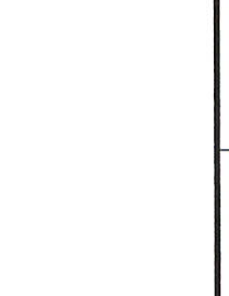


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4.	CCSU Housing LLC 1000 Orchard Rd. Berlin, CT 06037				
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3.	David Larson 209 Amherst St. New Britain, CT 06053-2575					
4.	Donald A. Langmaid 50 Covington St. New Britain, CT 06053					
5.	Emmanuel Meleounis 38 Forest Dr. Wethersfield, CT 06109					
6.	Harold P. Rodriguez & Maria Jose Rodriguez-Arteaga 1556 Stanley St. New Britain, CT 06053					




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4.	Inez Infante 1620 Stanley St. New Britain, CT 06053					
5.	Iwo Jima Memorial Historical Foundation Inc. 133 Cook Rd. Prospect, CT 06712					
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6. _____	Nelson Castaneda & Nancy Castaneda 1590 Stanley St. New Britain, CT 06053-2438				




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3.	Peter Badrigian 27 Welles Dr. Newington, CT 06111-2626				
4.	Richard Atashian 1646 Stanley St. New Britain, CT 06053				
5.	Rose M. Catenzaro & Diane Chrusciel et al. 1634 Stanley St. New Britain, CT 06053				
6.	Roxanne Price Trustee 2 Alford Dr. Windsor, CT 06095-1629				



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3.	Sherree D. Sutton 101 Paul Manafort Dr. New Britain, CT 06053				
4.	Sound Garrett New Britain LLC 50 Field St., Ste 108 Torrington, CT 06790				
5.	State of Connecticut - CCSU 1615 Stanley St. New Britain, CT 06055				
6.	State of Connecticut - CCSU Board of Trustees 1615 Stanley St. New Britain, CT 06053				



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3. The CCSU Foundation, Inc.
 1615 Stanley St.
 New Britain, CT 06053

4. Thomas J. Swistro Est.
 473 East Getten Hill Rd.
 New Hartford, CT 06057

5. Three Hundred Five Man LLC
 20 Clover Hill Pl
 Berlin, CT 06037

6. Todd R. Passan
 1626 Stanley St.
 New Britain, CT 06053



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<p>Name and Address of Sender</p> <p>Kristen Grillo c/o All-Points Technology Corp., P.C. 567 Vauxhall St. Ext., Suite 311 Waterford, CT 06385</p>	<p>TOTAL NO. of Pieces Listed by Sender</p>	<p>TOTAL NO. of Pieces Received at Post Office™</p>	<p>Affix Stamp Here <i>Postmark with Date of Receipt.</i></p>		
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2.	Two Hundred Seventy Four Paul Manafort Drive LLC 46 Brentwood Dr. Glastonbury, CT 06033				
3.	William Mark Allen & Juan C. Fuentes 224 Amherst St. New Britain, CT 06053				
4.	Zachary Decaro 56 Covington St. New Britain, CT 06053				
5.					
6.					

Exhibit 9

From: [Jennifer Young Gaudet](#)
To: "Steven Schiller"
Subject: Bloom Energy - proposed fuel cell installation at Central Connecticut State University
Date: Thursday, March 2, 2023 3:10:00 PM
Attachments: [image001.png](#)
[CTU008.0 Preliminary Draft Plan.pdf](#)

Dear Mr. Schiller:

I am writing on behalf of Bloom Energy in connection with a planned fuel cell installation at Central Connecticut State University. Attached are plans depicting the proposed installation, which will consist of seven energy servers and associated equipment and be fueled by natural gas. As shown, it will be located adjacent to the Nicolas Copernicus Parking Garage, in proximity to the campus Energy Center on the parcel identified by the City Assessor records as 1615 Stanley Street, Parcel A4C/3.

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 the number below or by e-mail.

Thank you.

Jennifer Young Gaudet



JENNIFER YOUNG GAUDET

Program Manager

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

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567 Vauxhall Street Extension – Suite 311, Waterford, CT 06385