

engineering
architecture
project management
construction management
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December 11, 2015

Via Fed Ex

Attn: Robert Stein, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: Petition of Bloom Energy Corporation, as agent for LeGrand, for a Declaratory Ruling for the Location and Construction of a 500 kW Fuel Cell Customer-Side Distributed Resource at 60 Woodlawn St, West Hartford, CT 06110.

Dear Chairman Stein:

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"), as agent for LeGrand, requests the Connecticut Siting Council approve the location and construction of a 500 kilowatt fuel cell and associated equipment (the "Facility"). The Facility will be located on the site of the Legrand Wiremold Facility at 60 Woodlawn St, West Hartford, CT (the "Site"). 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.

Should you have any questions, concerns, or require additional information, please do not hesitate to contact me at 908-462-9939.

Sincerely,
Core States Group

A handwritten signature in blue ink, appearing to read "Michael D. Sousa", is written over a faint, larger version of the same signature.

Michael D. Sousa
msousa@core-eng.com
(908) 462-9939

**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

PETITION OF BLOOM ENERGY : PETITION NO. ____
CORPORATION AS AGENT FOR LEGRAND, :
S.A. FOR A DECLARATORY RULING FOR :
THE LOCATION AND CONSTRUCTION OF A :
500-KILOWATT FUEL CELL CUSTOMER-SIDE :
DISTRIBUTED RESOURCE AT 60 : December 11, 2015
WOODLAWN STREET, WEST HARTFORD,
CONNECTICUT

PETITION OF BLOOM ENERGY CORPORTATION AS AGENT FOR LEGRAND, S.A.
FOR A DECLARATORY RULING

Pursuant to Conn. Gen. Stat. §§ 4-176 and 16-50k(a) and Conn. Agencies Regs. § 16-50j-38 et seq., Bloom Energy Corporation (“Bloom”), as agent for Legrand, S.A. (“Legrand”), requests that the Connecticut Siting Council (“Council”) approve by declaratory ruling the location and construction of a customer-side distributed resources project comprised of a 500-kilowatt (“kW”) (net) Bloom solid oxide fuel cell Energy Server facility and associated equipment (the “Facility”), located on the site of the Legrand Wiremold Facility at 60 Woodlawn Street, West Hartford, Connecticut (the “Site”). See Exhibit 1. The Facility will be installed by Bloom and owned and operated by 2015 Project Company, LLC, a wholly owned subsidiary of Bloom under agreement with Legrand.

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.”

As discussed fully in this petition, in addition to being a fuel cell facility, the Facility will be a customer-side distributed resources facility under 65 megawatts (“MW”) that complies with the air and water quality standards of the Connecticut Department of Energy and Environmental Protection (“DEEP”). Additionally, the Facility will not have a substantial adverse environmental effect in the State of Connecticut.

I. COMMUNICATIONS

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

Adam Mueller, P.E.
Core States Group
58 Mount Bethel Road
Suite 301
Warren, NJ 07059
Telephone: (908) 462-9914
Fax: (908) 548-0875
Email: amueller@core-eng.com

Joseph Udinsky
Bloom Energy Corporation
1299 Orleans Drive
Sunnyvale, CA 94089
Telephone: (302) 836-3527
Fax: (408) 543-1501
Email: Joseph.Udinsky@bloomenergy.com

II. DISCUSSION

A. Background

The Facility will be a 500kW customer-side distributed resources facility consisting of two state-of-the-art Bloom Energy Servers and associated equipment. The Facility will be interconnected to the existing switchgear located inside the electrical room, located within the middle of buildings 3 and 4 of the Legrand Wiremold facility (the “Building”). *See* Exhibit 2. Electricity generated by the Facility will be consumed primarily at the Site, and any excess electricity will be exported to the grid.

The Facility will be a “customer-side distributed resources” project because it will be “a unit with a rating of not more than sixty-five megawatts [and is located] on the premises of a industrial end user within the transmission and distribution system including, but not limited to, fuel cells” Conn. Gen. Stat. § 16-1(a)(40)(A). Further, in its Final Decision in Docket No. 12-02-09, dated September 12, 2012, the Connecticut Public Utilities Regulatory Authority (“PURA”) determined that Bloom’s Energy Server qualifies as a Class I renewable energy source fuel cell as defined in Conn. Gen. Stat. §16 1(a)(26)(A). See Exhibit 3.

B. Description of the Site and the Facility

1. The Site

The Facility will be installed within the Legrand property located at 60 Woodlawn Street, West Hartford, Connecticut. Specifically, the Facility will be constructed on the 13.15-acre property (“the Site”) that surrounds the Legrand buildings. The Site is zoned “General Industrial District” (“IG”) under the zoning regulations of the Town of West Hartford (the “Town”).

The majority of the surrounding areas to the east and south are industrial uses located within industrial districts. The areas north and west of the property are industrial and residential uses located within industrial and multifamily districts. The nearest structure is a residence that lies approximately 200 feet west of the facility.

The facility will be located within an existing asphalt parking area within an alleyway to the building. The portion of the Site that will be used for the Facility is shown in Exhibit 2.

Prior to filing this petition, representative from Core States Group, Bloom's engineering consultant, discussed the proposed Facility with the City's Planning and Zoning Department Planner, Todd Dumais. To date no comments have been provided from the City. See Exhibit 4.

2. The Facility

The Facility will consist of two Bloom solid oxide fuel cell Energy Server and associated equipment. The dimensions of the Facility is approximately 30'-8" long, 8'-6" wide and 6'-9" high. The Energy Server module is enclosed, factory-assembled and tested prior to installation on the Site. See Exhibit 5.

The Facility will be capable of producing 500 kW of continuous, reliable electric power. The Facility will interconnect to the Site's distribution system and operate in parallel with the grid to provide the Site's electrical requirements. Any electricity generated in excess of the Site's requirement will be exported to the grid under Eversource's net metering tariff. The interconnection to Eversource will be provided from the existing switchgear located inside the electrical room within the middle of buildings 3 and 4. At the time this petition was filled, the Eversource interconnection application for the Facility is being prepared.

The Energy Server will be fueled by natural gas supplied by Connecticut Natural Gas ("CNG"). Gas service will be delivered to the Energy Server via a new CNG gas meter assembly located adjacent to the existing building meter. A regulator set assembly is being provided adjacent to the facility. The new service line will branch off of the existing CNG line within the asphalt area near the west face of the Building, building 4.

The Bloom Energy Server will have extensive hardware, software and operator safety control systems, designed into the system in accordance with ANSI/CSA America FC 1-2004,

the American National Standards Institute and Canadian Standards Association standard for Stationary Fuel Cell Power Systems. The Facility is remotely monitored by Bloom Energy 24 hours a day, seven days a week. If software or hardware safety circuits detect an unsafe condition, variation in temperature or gas pressure outside of operational parameters, fuel supply is automatically stopped and the system is shut down. Two manual fuel shut-off valves are provided at each installation site, and two normally closed, safety shut-off rated isolation valves are installed within the system. The Facility will be installed in compliance with all applicable building, plumbing, electrical, fire and other codes.

The risk of fire related to the operation of the Energy Server is very low. In the Bloom fuel cell, natural gas is not burned; it is used in a chemical reaction to generate electricity. The natural gas is digested almost immediately upon entering the unit and is no longer combustible. As stated above, any variation in heat outside of the operational parameters will trigger an automatic shutdown of the energy server.

C. The Facility Complies with DEEP's Air and Water Quality Standards and Will Not Have a Substantial Adverse Environmental Effect

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.

Construction-related impacts will be minimal. The Facility will be located within an existing asphalt area behind the Building. The facility will not extend beyond the limits of the existing asphalt area. All utilities will be installed within the asphalt area and along the rear face of the Building. All utility trenches will be restored in-kind.

Conn. Agencies Regs. § 22a-174-42, which governs air emissions from new distributed generators, exempts fuel cells from air permitting requirements. Accordingly, no permits, registrations, or applications are required based on the actual emissions from the Facility. See Conn. Agencies Regs. §§ 22a-174-42(b) and (e). Notwithstanding this exemption, as shown below in Table 1, the Facility meets the Connecticut emissions standards for a new distributed generator.

Table 1: Connecticut Emissions Standards for a New Distributed Generator

Compound	Connecticut Emission Standard (lbs/MW-hr)¹	Bloom Energy Server (lbs/MW-hr)
Oxides of Nitrogen (NO _x)	0.15	<0.01
Carbon Monoxide (CO)	1	<0.10
Carbon Dioxide (CO ₂)	1,650	724-832

With respect to water discharges, the Energy Servers are designed to operate without water discharge under normal operating conditions. During construction, appropriate soil erosion prevention techniques will be incorporated around the disturbed areas to minimize soil erosion. Due to the limited disturbance required for the Facility’s installation, no construction-related storm water permits will be required. Further, no additional impervious area will be added to the Site and will not affect drainage patterns or stormwater discharge.

The proposed Facility will be located in an existing paved area on a lot that was previously developed and disturbed during construction of the Building. Therefore, the construction and operation of the Facility will not have any adverse effects on endangered species, historical resources or surrounding areas.

¹ Conn. Agencies Regs. § 22a-174-42, Table 42-2.

The acoustical impact of the Facility will be minimal, and the Facility will meet the applicable requirements for off-site noise receptors. As discussed above, the proposed Facility will be approximately 200 feet to the west of a residential property.

III. NOTICE

Bloom has provided notice of this petition to all persons and appropriate municipal officials and governmental agencies to whom notice is required to be given pursuant to Conn. Agencies Regs. § 16-50j-40(a).² A copy of the notice letter and a service list is attached as Exhibit 6.

IV. BASIS FOR GRANTING OF THE PETITION

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 Facility is a “customer-side distributed resources” project, as defined in Conn. Gen. Stat. § 16-1(a)(40)(A), because the Facility is “a unit with a rating of not more than sixty-five megawatts [and is located] on the premises of a retail end user within the transmission and distribution system including, but not limited to, fuel cells” and, as demonstrated herein, will meet DEEP air and

² Conn. Agencies Regs. § 16-50j-40(a) requires that “[p]rior to submitting a petition for a declaratory ruling to the Council, the petitioner shall, where applicable, provide notice to each person other than the petitioner appearing of record as an owner of property which abuts the proposed primary or alternative sites of the proposed facility, each person appearing of record as an owner of the property or properties on which the primary or alternative proposed facility is to be located, and the appropriate municipal officials and government agencies [listed in Section 16-50l of the Connecticut General Statutes].”

water quality standards. In addition, as demonstrated above, the construction and operation of the Facility will not have a substantial adverse environmental effect in the State of Connecticut.

V. CONCLUSION

For the reasons stated above, Bloom, as agent for Legrand, respectfully requests that the Council approve the location and construction of the Facility by declaratory ruling.

Respectfully submitted,

BE 2015 W LLC

By: 

Glen Griffiths

Bloom Energy Corporation

1299 Orleans Drive

Sunnyvale, CA 94089

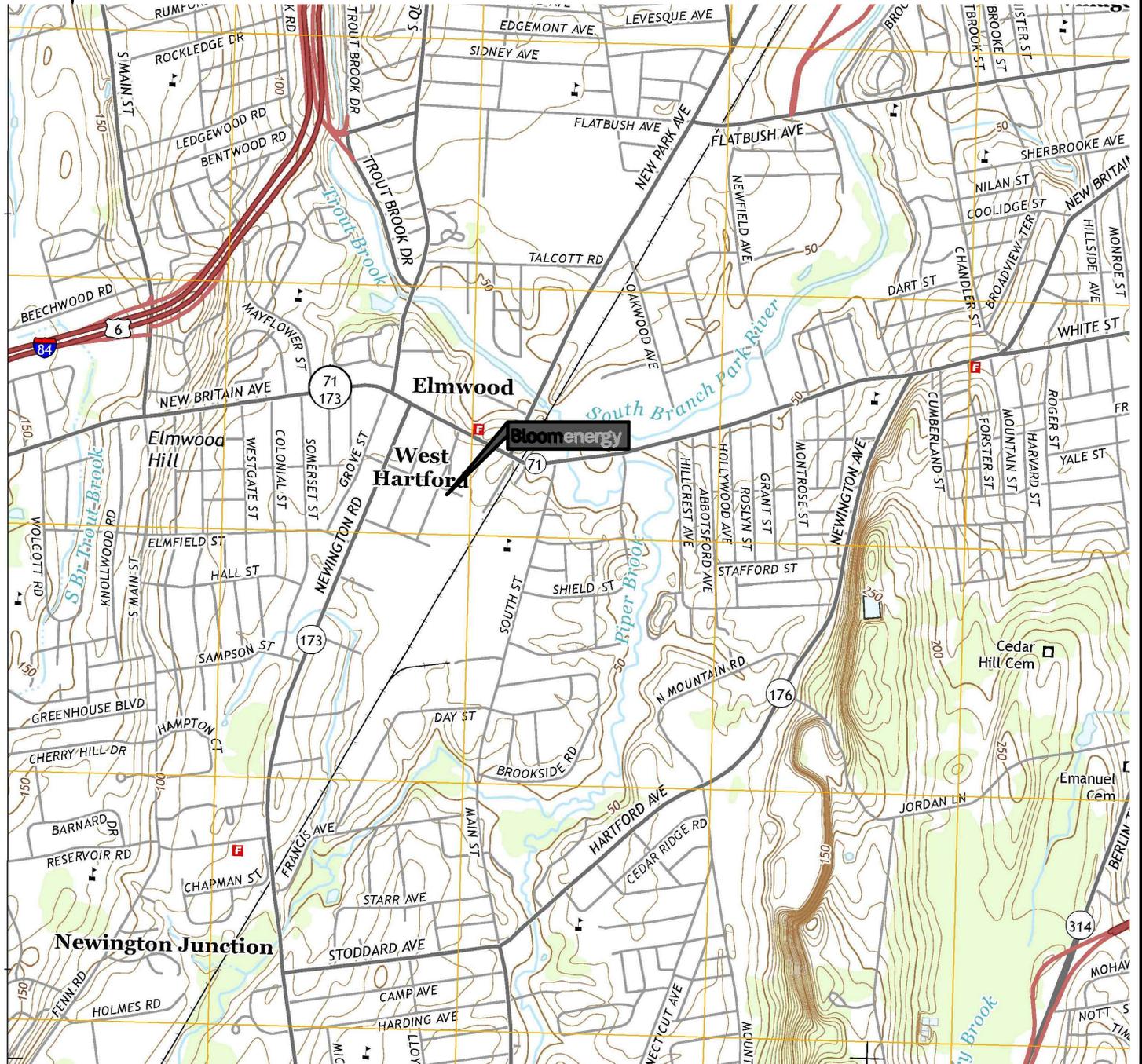
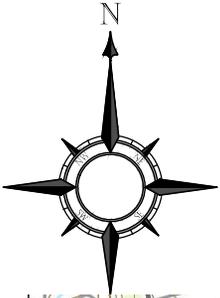
Telephone: (408) 338-7452

Email: glen.griffiths@bloomenergy.com

EXHIBITS

- Exhibit 1: Site Location Map
- Exhibit 2: Site Plan
- Exhibit 3: Final Decision, PURA Docket No. 12-02-09, *Petition of Bloom Energy Corporation for a Declaratory Ruling that Its Solid Oxide Fuel Cell Energy Server Will Qualify as a Class I Renewable Energy Source* (Sept. 12, 2012)
- Exhibit 4: Correspondence with the Town
- Exhibit 5: Bloom Energy Server Product Datasheet and General Installation Overview
- Exhibit 6: Notice Pursuant to Conn. Agencies Regs. § 16-50j-40(a)
- Exhibit 7: Abutters Map

Exhibit 1



Job#: BEC-19482
 Scale: 1" ≈ 2,000'
 Date: 12/03/2015
 Drawn By: MDS

CORE STATES

GROUP
 58 Mount Bethel Boulevard, Suite 301,
 Warren, NJ 07059
 Tel: (908) 462-9700 Fax: (908) 462-9909
 amueller@core-eng.com

Bloomenergy™ 1252 Orleans Drive, Sunnyvale CA, 94089
 Tel: 408 543 1500 Fax: 408 543 1501
 60 Woodlawn Street
 West Hartford, CT 06110
EXHIBIT 1 - SITE LOCATION MAP
USGS MAP (HARTFORD SOUTH)

Exhibit 2

Exhibit 3



STATE OF CONNECTICUT

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
PUBLIC UTILITIES REGULATORY AUTHORITY
TEN FRANKLIN SQUARE
NEW BRITAIN, CT 06051

**DOCKET NO. 12-02-09 PETITION OF BLOOM ENERGY CORPORATION FOR A
DECLARATORY RULING THAT ITS SOLID OXIDE FUEL
CELL ENERGY SERVER WILL QUALIFY AS A CLASS I
RENEWABLE ENERGY SOURCE**

September 12, 2012

By the following Directors:

Arthur H. House
John W. Betkoski, III

DECISION

I. INTRODUCTION

By Petition dated February 14, 2012, pursuant to Section 4-176 in the General Statutes of Connecticut (Conn. Gen. Stat.) and Section 16-1-113 in the Regulations of Connecticut State Agencies, Bloom Energy Corporation requests that the Public Utilities Regulatory Authority (Authority) issue a declaratory ruling that its solid oxide fuel cell energy server qualifies as a Class I renewable energy source.

II. PETITIONER'S EVIDENCE

Bloom Energy Corporation (Bloom) has commercialized a scalable, modular fuel cell using Bloom's patented solid oxide fuel cell (SOFC) technology. A fuel cell is a device that uses a fuel and oxygen to create electricity by an electrochemical process. A single fuel cell consists of an electrolyte and two catalyst-coated electrodes (an anode cathode). Fuel cells are generally categorized by the type of electrolyte used. Petition, pp. 2 and 3.

Each Bloom Energy Server consists of thousands of Bloom's patented SOFCs. Each fuel cell is a flat, solid ceramic square capable of producing at least 25 watts. In an energy server, Bloom "sandwiches" the SOFCs between metal interconnect plates into a fuel cell "stack." Bloom aggregates multiple fuel cell stacks together into a "power module," and then multiple power modules, along with a common fuel input and electrical output, are assembled as a complete energy server fuel cell. Id., p. 3.

The Bloom Energy Server converts the chemical energy contained in fuel, such as natural gas, into electricity at an efficiency of approximately 50% - 60% (lower heating value net AC) without any combustion or multi-stage conversion loss. Fuel entering the energy server is processed using a proprietary catalytic method to yield a reformat gas stream, and the gaseous product and preheated air are introduced into the fuel cell stacks. Within the stacks, ambient oxygen reacts with the fuel to produce direct current (DC) electricity. The DC power produced by the energy server system is converted into 480-volt AC power using an inverter, and delivered to the host facility's electrical distribution system. Id.

SOFCs operate at very high temperatures, obviating the need for expensive metal catalysts. With low cost ceramic materials, and extremely high electrical efficiencies, SOFCs can deliver attractive economies without relying on combined heat and power. Id.

Bloom Energy Servers are a fraction of the size of a traditional base load power source, with each server occupying a space similar to that of a parking space. This small, low-impact, modular form of base load power does not pose the environmental challenges associated with a traditional base load power plant, significantly reducing environmental impacts. Moreover, Bloom's innovative design requires only an initial input of 120 gallons of water per 100 kW, after which no additional water is consumed during normal operation. Id., pp. 3 and 4.

Bloom Energy Servers deliver significant environmental benefits over conventional base load technologies. In addition to significant CO₂ reductions due to its high efficiency, the energy server emits virtually no NO_x, SO_x, or other smog forming particulates since the conversion of gas to electricity in a Bloom Energy Server is done through an electrochemical reaction rather than combustion. Id., p. 4.

III. AUTHORITY ANALYSIS

Conn. Gen. Stat. §16-1(a)(26) defines a Class I renewable energy source as:

(A) energy derived from solar power; wind power; a fuel cell; methane gas from landfills; ocean thermal power; wave or tidal power; low emission advanced renewable energy conversion technologies; a run-of-the-river hydropower facility provided such facility has a generating capacity of not more than five megawatts, does not cause an appreciable change in the river flow, and began operation after the effective date of this section; or a biomass facility, including, but not limited to, a biomass gasification plant that utilizes land clearing debris, tree stumps or other biomass that regenerates or the use of which will not result in a depletion of resources, provided such biomass is cultivated and harvested in a sustainable manner and the average emission rate for such facility is equal to or less than .075 pounds of nitrogen oxides per million BTU of heat input for the previous calendar quarter, except that energy derived from a biomass facility with a capacity of less than five hundred kilowatts that began construction before July 1, 2003, may be considered a Class I renewable energy source, provided such biomass is cultivated and harvested in a sustainable manner; or (B) any electrical generation, including distributed generation, generated from a Class I renewable energy source.

Based on Bloom's assertions, the Authority finds that its Bloom Energy Server qualifies as a Class I renewable energy source "fuel cell" as defined in Conn. Gen. Stat. §16-1(a)(26)(A).

The Authority has created an electronic application process for generation owners to apply for a Connecticut Renewable Portfolio Standards registration. The application is available on the Authority's website at the web address <http://www.ct.gov/pura>. The application should be submitted electronically along with a single hard-copy filing. While the Authority concludes in this Decision that the Bloom Energy Server would qualify as a Class I renewable energy source pursuant to Conn. Gen. Stat. §16-1(a)(26), Bloom must still apply for registration of the aforementioned system once the facility becomes operational and is registered in the New England Generation Information System.

IV. CONCLUSION

Based upon the project as described herein, the Authority finds that, as proposed, the Bloom Energy Server would qualify as a Class I renewable energy source. However, since the energy server is not yet operational, it should apply for Class I registration once it begins operations.

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to requirements of the Americans with Disabilities Act. Any person with a disability who may need information in an alternative format may contact the agency's ADA Coordinator at 860-424-3194, or at deep.hrmed@ct.gov. Any person with limited proficiency in English, who may need information in another language, may contact the agency's Title VI Coordinator at 860-424-3035, or at deep.aoffice@ct.gov. Any person with a hearing impairment may call the State of Connecticut relay number – 711. Discrimination complaints may be filed with DEEP's Title VI Coordinator. Requests for accommodations must be made at least two weeks prior to any agency hearing, program or event.

**DOCKET NO. 12-02-09 PETITION OF BLOOM ENERGY CORPORATION FOR A
DECLARATORY RULING THAT ITS SOLID OXIDE FUEL
CELL ENERGY SERVER WILL QUALIFY AS A CLASS I
RENEWABLE ENERGY SOURCE**

This Decision is adopted by the following Directors:

Arthur H. House

John W. Betkoski, III

CERTIFICATE OF SERVICE

The foregoing is a true and correct copy of the Decision issued by the Public Utilities Regulatory Authority, State of Connecticut, and was forwarded by Certified Mail to all parties of record in this proceeding on the date indicated.



Kimberley J. Santopietro
Executive Secretary
Department of Energy and Environmental Protection
Public Utilities Regulatory Authority

September 12, 2012

Date

Exhibit 4

December 11, 2015

Via certified mail

Town Hall
50 South Main Street – Room 214
West Hartford, CT 06107

Attn: Todd Dumais

RE: Bloom Energy Clean Energy Server Installation
Legrand Wiremold Facility – 60 Woodlawn Street

Mr. Dumais,

On behalf of Bloom Energy we would like to provide you with information pertaining to the proposed clean energy server installation project located at the Legrand Wiremold Facility, 60 Woodlawn Street.

This project proposes to install two (2) new ES-5 Bloom Energy Servers; a new class of distributed power generator which produces clean, reliable and affordable electricity at the customer site. Bloom Energy Server contains solid oxide fuel cells which provide 500 kW of power, utilizing a non-combustive chemical process. The Clean Energy Servers are mounted onto two (2) 30'8" x 8'6" precast concrete pads. Placement of the Clean Energy Server equipment is proposed to be installed within an alleyway to the building.

The ES-5 equipment has been designed in compliance with Underwriters Laboratories (UL) in addition to various safety standards and requirements. There are no harmful off-gases or byproducts that will be produced by this equipment.

Please note that the energy server is monitored 24 hours a day, 7 days a week by Bloom Energy's communications network in Sunnyvale, CA. In the unlikely event the system will require attention, the system can be remotely shut off by Bloom. Additionally, the equipment will have several means to shut down the energy server locally.

We are submitting to the Connecticut Siting Council in the near future and want to give you an opportunity to review the proposed site plans to your office. Per your recent communication with our office we will wait for Siting Council approval before we submit plans. We would be happy to discuss any comments you may have either by phone or in person. If you have any questions or need further information, please feel free to call at (908) 462-9919.

Thank you,
Core States Group



Matthew S. DeWitt, P.E.
Senior Project Manager

Exhibit 5



Energy Server 5

Clean, Reliable, Affordable Energy



CLEAN, RELIABLE POWER ON DEMAND

Bloom Energy's Energy Server 5 delivers clean power that reduces emissions and energy costs. The modular architecture enables the installation to be tailored to the actual electricity demand, with a flexibility to add servers as the load increases. The Energy Server 5 actively communicates with Bloom Energy's network operations centers so system performance can be monitored and maintained 24 hours per day, 365 days per year.

INNOVATIVE TECHNOLOGY

Utilizing patented solid oxide fuel cell (SOFC) technology, the Energy Server 5 produces combustion-free power at unprecedented efficiencies, meaning it consumes less fuel and produces less CO₂ than competing technologies. Additionally, no water is needed under normal operating conditions.

ALL-ELECTRIC POWER

The Energy Server 5, which operates at a very high electrical efficiency, eliminates the need for complicated and costly CHP systems. Combining the standard electrical and fuel connections along with compact footprint and sleek design, the Energy Server 5 is the most deployable fuel cell on the market.

CONTROLLED AND PREDICTABLE COST

By providing efficient on-site power generation, the economic and environmental benefits are central to the Energy Server 5 value proposition. Bloom Energy customers can lock in their long term energy costs and mitigate the risk of electricity rate increases. The Energy Server 5 has been designed in compliance with a variety of safety standards and is backed by a comprehensive warranty.

About Bloom Energy

Bloom Energy is making clean, reliable energy affordable. Our unique on-site power generation systems utilize an innovative fuel cell technology with roots in NASA's Mars program. By leveraging breakthrough advances in materials science, Bloom Energy systems are among the most efficient energy generators, providing for significantly reduced operating costs and dramatically lower greenhouse gas emissions. Bloom Energy Servers are currently producing power for many Fortune 500 companies including Apple, Google, Walmart, AT&T, eBay, Staples, as well as notable non-profit organizations such as Caltech and Kaiser Permanente.

Headquarters:

Sunnyvale, California

For More Information:

www.bloomenergy.com

Energy Server 5

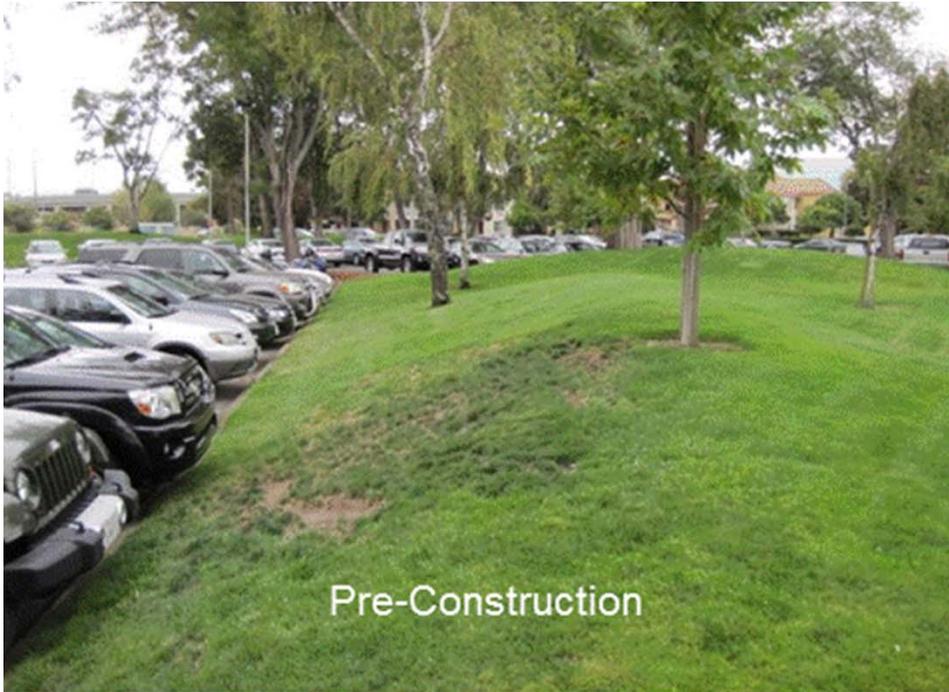
Technical Highlights (ES5-AA1AA0)	
Outputs	
Nameplate power output (net AC)	262.5 kW
Base load output (net AC)	250 kW
Electrical connection	480 V, 3-phase, 60 Hz
Inputs	
Fuels	Natural gas, directed biogas
Input fuel pressure	10-18 psig (15 psig nominal)
Water	None during normal operation
Efficiency	
Cumulative electrical efficiency (LHV net AC)	53-60%
Heat rate (HHV)	6,295-7,127 Btu/kW
Emissions	
NO _x	< 0.01 lbs/MWh
SO _x	Negligible
CO	< 0.10 lbs/MWh
VOCs	< 0.02 lbs/MWh
CO ₂ @ stated efficiency	735-832 lbs/MWh on natural gas; carbon neutral on directed biogas
Physical Attributes and Environment	
Weight	13.7 tons
Dimensions (variable layouts)	15' 8" x 8' 9" x 6' 10" or 30' 4" x 4' 5" x 6' 10"
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	
Designed to ANSI/CSA America FC 1-2014	
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	



Bloom Energy Corporation
 1299 Orleans Drive
 Sunnyvale CA 94089
 T 408 543 1500
 www.bloomenergy.com

Bloom Energy Server





Pre-Construction



Install Preparations – Trenching & Underground Utility



Set Pads



Site Completion

Bloom Energy Server Installation



Representative Installations



Exhibit 6

December 11, 2015

VIA FIRST CLASS MAIL

RE: Application for Core States Group, as Agent for Legrand, for the construction of a 500 kW Fuel Cell Customer-Side Distributed Resource at 60 Woodlawn Street – West Hartford, 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 Legrand intends to file on or shortly after December 11, 2015, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of an approximately 500 kilowatt Bloom Energy Corporation fuel cell facility and associated equipment (the "Facility"), located at the site of the Legrand Wiremold facility at 60 Woodlawn Street – West Hartford, Connecticut (the "Site"). 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.

The facility will be located within a parking area along the southern face of Legrand's building 3. The fuel cells are approximately 30'-6" long, 8'-6" wide, and 6'-9" high.

If you have any questions regarding the proposed Facility, please contact the undersigned or the Council.

Respectfully,



Michael D. Sousa
msousa@core-eng.com
(908) 462-9939

Municipal Official/Agency	Name/Address
West Hartford Mayor	Scott Slifka Town Hall, Mayor 50 South Main Street West Hartford, CT 06107
West Hartford Planning & Zoning Department	Todd Dumais Town Hall, Room 214 50 South Main Street West Hartford, CT 06107
West Hartford Conservation Commission	Dallas C. Dodge Town Hall, Conservation Commission 50 South Main Street West Hartford, CT 06107
Conneticut U.S. Senator	Richard Blumental 702 Hart Senate Office Building Washington, D.C. 20510
Conneticut U.S. Senator	Chris Murphy B40A Dirksen Senate Office Building Washington, D.C. 20510
Conneticut U.S. Representative	John Larson Congressman District 1 1501 Longworth House Office Building Washington, D.C. 20515
Conneticut State Senator	Beth Bye Legislative Office Building Room 3100 Hartford, CT 06106

West Hartford State Representative	Andrew M. Fleischmann District 18 Legislative Office Building Room 3101 Hartford, CT 06106
West Hartford State Representative	Brian Becker District 19 Legislative Office Building Room 4009 Hartford, CT 06106
West Hartford State Representative	Joe Verrengia District 20 Legislative Office Building Room 4048 Hartford, CT 06106
Connecticut Attorney General	George Jesen Attorney General 55 Elm Street Hartford, CT 06106
State Development of Energy and Environmental Protection	Rob Klee Commissioner 79 Elm Street Hartford, CT 06106
State Department of Public Utility Regulatory Authority	Arthur House Chairman 10 Franklin Square New Britain, CT 061051

State Department of Public Health	Dr. Jewel Mullen Commissioner 410 Capital Avenue Hartford, CT 06134
State Council on Environmental Quality	Susan D. Merrow Chair 79 Elm Street Hartford, CT 06106
State Department of Agriculture	Steven K. Reviczky Commissioner 165 Capital Avenue Hartford, CT 06106
Office of Policy & Management	Benjamin Barnes Secretary of OPM 450 Capital Avenue Hartford, CT 06106
State Department of Economic & Community Development	Catherine Smith Commissioner 505 Hudson Street Hartford, CT 06106
State Department of Transportation	James P. Redeker Commissioner 2800 Berlin Turnpike Newington, CT 06111

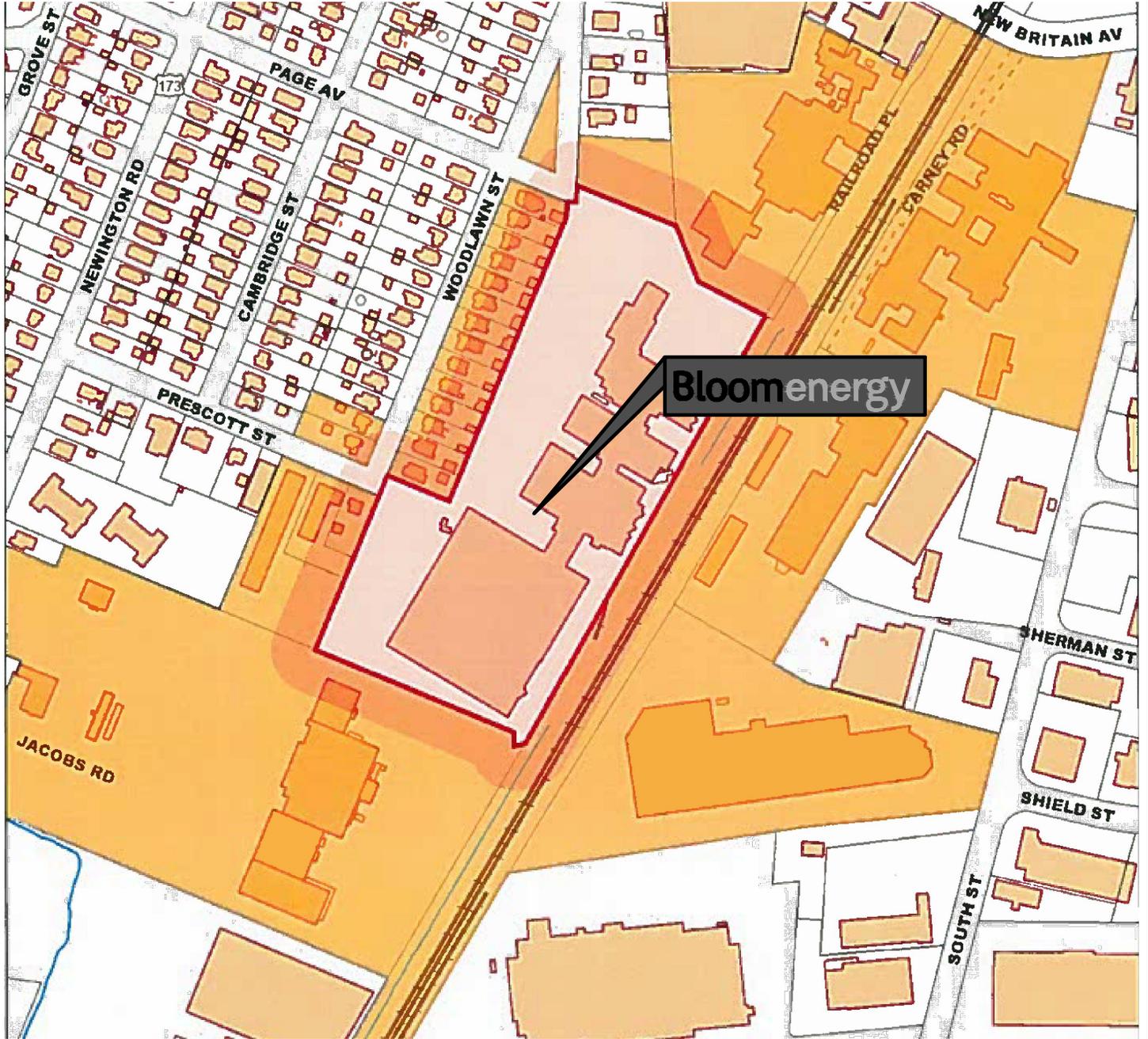
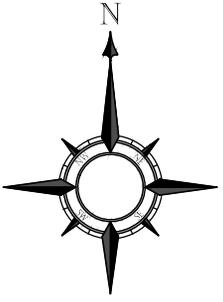
Abutter Property	Abutter Name/Mailing Address
1 Carney Road	United Tool & Die Company West Hartford, CT 06110
24 Cedar Street	Wh-Elm LLC New Britain, CT 06052
1037 New Britain Avenue	Conn Light And Power Co Hartford, CT 06141-0270
176 Newington Road	West Hartford Grocery Center Dst Oak Brook, IL 60523
54 Richmond Lane	B & P Realty Partnership LLP West Hartford, CT 06117
51 Prescott Street	Prescott Associates LLC East Hartford, CT 06138-0842
59 Prescott Street	Layug Elenita P West Hartford, CT 06110

400 No Capitol St Nw	National Railroad Passenger, Corporation Washington, DC 20001
19 Railroad Place	Abbott Ball Company West Hartford, CT 06110
38 Trumbull Street	Bk South LLC New Haven, CT 06510
56 Woodlawn Street	Abbott Ball Company West Hartford, CT 06110
66-70 Woodlawn Street	Nelson M Martinez West Hartford, CT 06110
47 Colonial Chester Drive	Taeik Min Wethersfield, CT 06109
78 Woodlawn Street	Arunas F Simanskis West Hartford, CT 06110

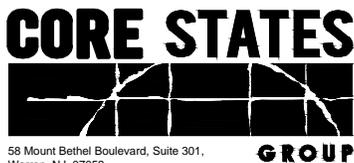
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86 Woodlawn Street	Richard R & Mary A Spillane West Hartford, CT 06110
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48 Sisson Avenue 2nd Floor	Jose Canga Hartford, CT 06106
121 Woodlawn St	Nancy Ann Fournier Mccabe West Hartford, CT 06110
122 Woodlawn St	The Wiremold Company West Hartford, CT 06110

Exhibit 7



Job#: BEC-19482
 Scale: N.T.S.
 Date: 12/05/2015
 Drawn By: MDS



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 Warren, NJ 07059
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 amueller@core-eng.com

Bloomenergy™

1252 Orleans Drive, Sunnyvale CA, 94089
 Tel: 408 543 1500 Fax: 408 543 1501

60 Woodlawn Street
 West Hartford, CT 06110

**EXHIBIT 7 - ABUTTERS MAP
 WEST HARTFORD GIS**



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

December 15, 2015

Joseph Udinsky
Bloom Energy Corporation
1299 Orleans Drive
Sunnyvale, CA 94089

RE: PETITION NO. 1204 – Bloom Energy Corporation, as an agent for Legrand, S.A., petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the construction, operation and maintenance of a Customer-Side 500-Kilowatt Fuel Cell Facility to be located at Legrand Wiremold, 60 Woodlawn Street, West Hartford, Connecticut.

Dear Mr. Udinsky:

The Connecticut Siting Council (Council) received the petition for the above-referenced facility on December 14, 2015.

According to Section 16-50j-39a of the Regulations of Connecticut State Agencies, “no declaratory ruling shall be issued to any person until a complete petition containing all information relevant by the Council has been filed.”

Staff has reviewed this petition for completeness and has identified a deficiency in notice to the Town of Newington, which is within 2,500 feet of the proposed facility, and lack of a clearly labeled abutters’ map that identifies the parcels corresponding to the abutters on the list. Pursuant to Section 16-50j-40 of the Regulations of Connecticut State Agencies, “Prior to submitting a petition for a declaratory ruling to the Council, the petitioner shall, where applicable, provide notice to each person other than the petitioner appearing as record as an owner of property which abuts the proposed primary or alternative sites of the proposed facility, each person appearing of record as an owner of the property or properties on which the primary or alternative proposed facility is to be located, and the appropriate municipal officials and government agencies. Proof of such notice shall be submitted with the petition for declaratory ruling.”

Therefore, the petition is incomplete at this time. The Council recommends that the petitioner provide proof of service of a copy of the petition for a declaratory ruling on appropriate municipal officials of the Town of Newington and a clearly labeled abutters’ map that identifies the parcels corresponding to the abutters on the list on or before December 22, 2015.

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie A. Bachman

Acting Executive Director/Staff Attorney

c: Adam Mueller, P.E., Core States Group
Council Members

December 15, 2015

Via Fed Ex

Attn: Robert Stein, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: Supplemental Filing for Petition No. 1204 – Bloom Energy Corporation, as agent for Legrand, for a Declaratory Ruling for the Location and Construction of a 500 kW Fuel Cell Customer-Side Distributed Resource at 60 Woodlawn St, West Hartford, CT 06110.

Dear Chairman Stein:

We are submitting an original and fifteen (15) copies of supplement the above-captioned Petition. Revised Exhibits 6, Notice Pursuant to Conn. Agencies Regs. § 16-50j-40(a), and Exhibit 7, Abutters Map have been included within this package.

Per comments received on December 15, 2015 from the Connecticut Siting Council we have revised the abutters list with the addition of the following:

- Newington Mayor – Roy Zartarian
- Newington Planner – Craig Minor
- Newington Conservation Commission Chairman – Jeffrey Zelek
- State Senator – Paul R. Doyle
- State Representative – Rick Lopes
- State Representative – Gary Byron
- State Representative – Antonio Guerrero

Should you have any questions, concerns, or require additional information, please do not hesitate to contact me at 908-462-9939.

Sincerely,
Core States Group

Michael D. Sousa
msousa@core-eng.com
(908) 462-9939

December 11, 2015

VIA FIRST CLASS MAIL

RE: Application for Core States Group, as Agent for Legrand, for the construction of a 500 kW Fuel Cell Customer-Side Distributed Resource at 60 Woodlawn Street – West Hartford, 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 Legrand intends to file on or shortly after December 11, 2015, a petition for declaratory ruling with the Council. The petition will request the Council's approval of the location and construction of an approximately 500 kilowatt Bloom Energy Corporation fuel cell facility and associated equipment (the "Facility"), located at the site of the Legrand Wiremold facility at 60 Woodlawn Street – West Hartford, Connecticut (the "Site"). 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.

The facility will be located within a parking area along the southern face of Legrand's building 3. The fuel cells are approximately 30'-6" long, 8'-6" wide, and 6'-9" high.

If you have any questions regarding the proposed Facility, please contact the undersigned or the Council.

Respectfully,



Michael D. Sousa
msousa@core-eng.com
(908) 462-9939

Municipal Official/Agency	Name/Address
West Hartford Mayor	Scott Slifka Town Hall, Mayor 50 South Main Street West Hartford, CT 06107
West Hartford Planning & Zoning Department	Todd Dumais Town Hall, Room 214 50 South Main Street West Hartford, CT 06107
West Hartford Conservation Commission	Dallas C. Dodge Town Hall, Conservation Commission 50 South Main Street West Hartford, CT 06107
Newington Mayor	Roy Zartarian Town Hall, Mayor 131 Cedar Street Newington, CT 06111
Newington Planning & Zoning Department	Craig Minor Town Hall, Planner 131 Cedar Street Newington, CT 06111
Newington Conservation Commission	Jeffrey Zelek Town Hall, Conservation Commission 131 Cedar Street Newington, CT 06111

Conneticut U.S. Senator	Richard Blumental 702 Hart Senate Office Building Washington, D.C. 20510
Conneticut U.S. Senator	Chris Murphy B40A Dirksen Senate Office Building Washington, D.C. 20510
Conneticut U.S. Representative	John Larson Congressman District 1 1501 Longworth House Office Building Washington, D.C. 20515
Conneticut State Senator	Paul R. Doyle Legislative Office Building Room 3900 Hartford, CT 06106
Conneticut State Senator	Beth Bye Legislative Office Building Room 3100 Hartford, CT 06106
West Hartford State Representative	Andrew M. Fleischmann District 18 Legislative Office Building Room 3101 Hartford, CT 06106
West Hartford State Representative	Brian Becker District 19 Legislative Office Building Room 4009 Hartford, CT 06106

West Hartford State Representative	Joe Verrengia District 20 Legislative Office Building Room 4048 Hartford, CT 06106
Newington State Representative	Rick Lopes District 24 Legislative Office Building Room 4014 Hartford, CT 06106
Newington State Representative	Gary Byron District 27 Legislative Office Building Room 4200 Hartford, CT 06106
Newington State Representative	Antonio Guerrera District 29 Legislative Office Building Room 2301 Hartford, CT 06106
Connecticut Attorney General	George Jesen Attorney General 55 Elm Street Hartford, CT 06106
State Development of Energy and Environmental Protection	Rob Klee Commissioner 79 Elm Street Hartford, CT 06106
State Department of Public Utility Regulatory Authority	Arthur House Chairman 10 Franklin Square New Britain, CT 061051

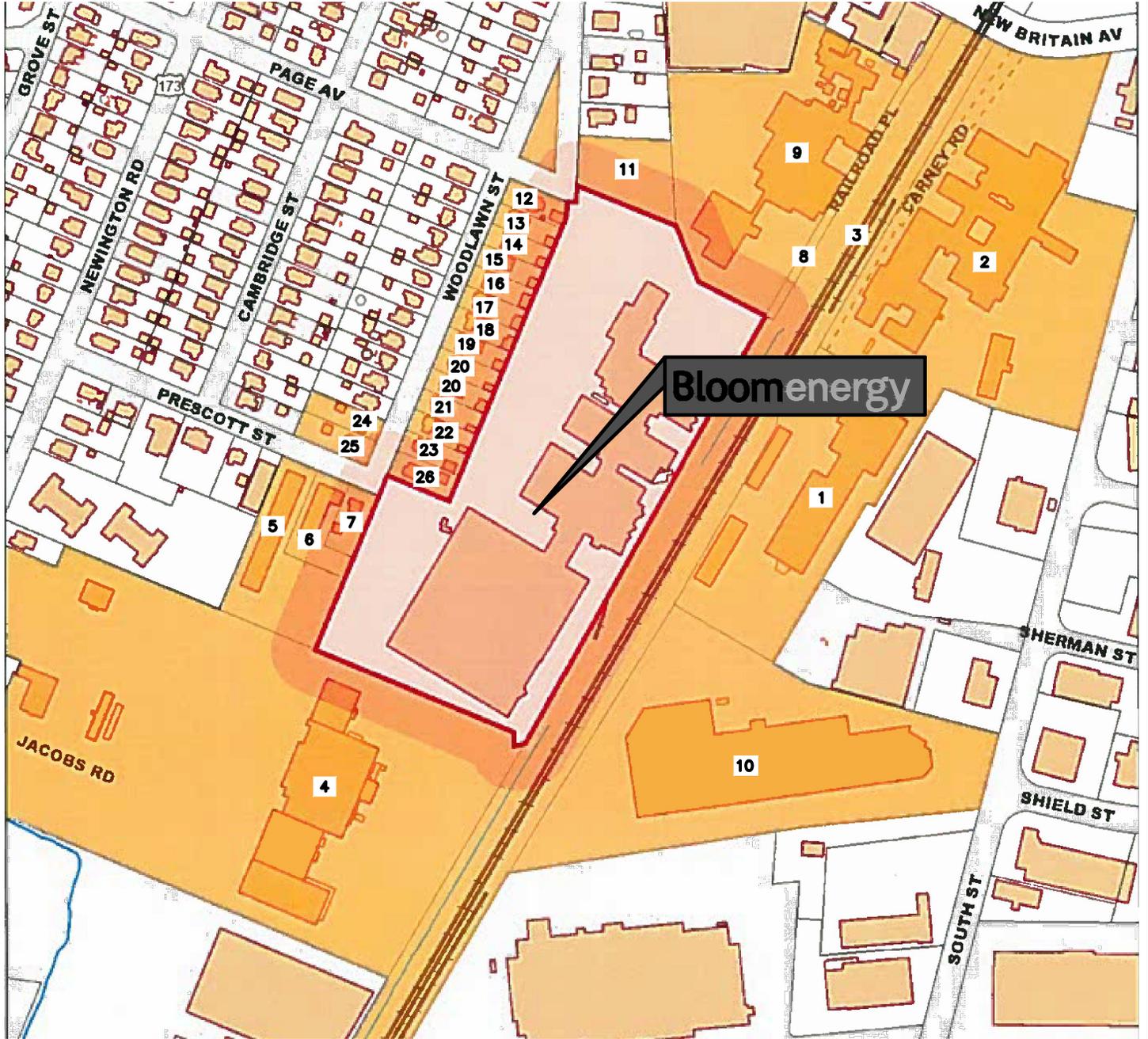
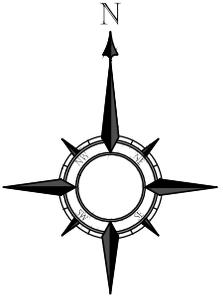
State Department of Public Health	Dr. Jewel Mullen Commissioner 410 Capital Avenue Hartford, CT 06134
State Council on Environmental Quality	Susan D. Merrow Chair 79 Elm Street Hartford, CT 06106
State Department of Agriculture	Steven K. Reviczky Commissioner 165 Capital Avenue Hartford, CT 06106
Office of Policy & Management	Benjamin Barnes Secretary of OPM 450 Capital Avenue Hartford, CT 06106
State Department of Economic & Community Development	Catherine Smith Commissioner 505 Hudson Street Hartford, CT 06106
State Department of Transportation	James P. Redeker Commissioner 2800 Berlin Turnpike Newington, CT 06111

Abutter Property		Abutter Name/Mailing Address
1	1 Carney Road	United Tool & Die Company West Hartford, CT 06110
2	24 Cedar Street	Wh-Elm LLC New Britain, CT 06052
3	1037 New Britain Avenue	Conn Light And Power Co Hartford, CT 06141-0270
4	176 Newington Road	West Hartford Grocery Center Dst Oak Brook, IL 60523
5	54 Richmond Lane	B & P Realty Partnership LLP West Hartford, CT 06117
6	51 Prescott Street	Prescott Associates LLC East Hartford, CT 06138-0842
7	59 Prescott Street	Layug Elenita P West Hartford, CT 06110

8	400 No Capitol St Nw	National Railroad Passenger, Corporation Washington, DC 20001
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CORE STATES

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