



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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

February 19, 2016

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:

At a public meeting held on February 18, 2016, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal would not have a substantial adverse environmental effect, and pursuant to Connecticut General Statutes § 16-50k would not require a Certificate of Environmental Compatibility and Public Need, with the following conditions:

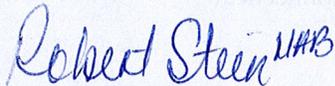
1. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed within three years from the date of the mailing of the Council's decision, this decision shall be void, and the facility owner/operator shall dismantle the facility and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's decision shall not be counted in calculating this deadline. Authority to monitor and modify this schedule, as necessary, is delegated to the Executive Director. The facility owner/operator shall provide written notice to the Executive Director of any schedule changes as soon as is practicable;
2. Any request for extension of the time period to fully construct the facility shall be filed with the Council not later than 60 days prior to the expiration date of this decision and shall be served on all parties and intervenors, if applicable, and the Town of West Hartford;
3. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
4. The facility owner/operator shall remit timely payments associated with annual assessments and invoices submitted by the Council for expenses attributable to the facility under Conn. Gen. Stat. §16-50v;
5. This Declaratory Ruling may be transferred, provided the facility owner/operator/transferee is current with payments to the Council for annual assessments and invoices under Conn. Gen. Stat. §16-50v and the transferee provides written confirmation that the transferee agrees to comply with the terms, limitations and conditions contained in the Declaratory Ruling, including timely payments to the Council for annual assessments and invoices under Conn. Gen. Stat. §16-50v; and

6. If the facility owner/operator is a wholly owned subsidiary of a corporation or other entity and is sold/transferred to another corporation or other entity, the Council shall be notified of such sale and/or transfer and of any change in contact information for the individual or representative responsible for management and operations of the facility within 30 days of the sale and/or transfer.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition, dated December 11, 2015 and additional information received on December 16, 2015, January 21, 2016, and February 1, 2016, and in compliance with Public Act 11-101, An Act Adopting Certain Safety Recommendations of the Thomas Commission.

Enclosed for your information is a copy of the staff report on this project.

Very truly yours,



Robert Stein
Chairman

RS/CH/lm

Enclosure: Staff Report dated February 18, 2016

- c: The Honorable Scott Slifka, Mayor, Town of West Hartford
Ronald Van Winkle, Town Manager, Town of West Hartford
Todd Dumais, Town Planner, Town of West Hartford
Catherine Dorau, Associate Planner, Town of West Hartford
The Honorable Roy Zartarian, Mayor, Town of Newington
Craig Minor, Town Planner, Town of Newington
Michael D. Sousa, Core States Group
Adam Mueller, Core States Group
Glen Griffiths, Bloom Energy Corporation
Bill Luchon, Legrand Wiremold





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Petition No. 1204

Legrand Wiremold facility

60 Woodlawn Street, West Hartford

Staff Report

February 18, 2016

On December 14, 2015, the Connecticut Siting Council (Council) received a petition from Bloom Energy Corporation (Bloom) on behalf of Legrand, S.A. (Legrand) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the location and construction of a Customer-Side 500-kilowatt (kW) Fuel Cell facility to be located between two existing buildings at the Legrand Wiremold facility at 60 Woodlawn Street, West Hartford, Connecticut. Council member Larry Levesque, Council staff members Christina Walsh and Cymon Holzschuh visited the site on January 13, 2016 to review the proposal. Mike Sousa, a Core States Group representative, Bill Luchon, a Legrand Wiremold representative, and Joe Pisarski, Legrand Wiremold Facilities Engineer, attended the field review on behalf of the petitioner. Craig Minor, Town Planner for Newington, and Catherine Dorau, Associate Planner for West Hartford, also attended the field review. The Town of Newington is within 2500 feet of the proposed facility.

Bloom's fuel cell facility would be a customer-side, distributed resources project that would consist of two 250-kW solid oxide fuel cell Energy Servers to be owned and operated by 2015 Project Company, LLC, a wholly owned subsidiary of Bloom under agreement with Legrand. The dimensions of the facility would be approximately 30 feet 8 inches long by 8 feet 6 inches wide by 6 feet 9 inches tall. Gas service will be delivered to the Energy Server via a new Connecticut Natural Gas (CNG) gas meter assembly located adjacent to the existing building meter. The new service line will branch off of the existing CNG line within the asphalt area near the west face of the adjacent building. The fuel cell facility would be protected from impact by bollards.

The facility would be installed on the 13.15-acre property within an existing asphalt parking area in an alleyway between the Legrand buildings. The site is zoned General Industrial under the zoning regulations of the Town of West Hartford. 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.

Visual impact from the proposed project would be minimal due to its location between two existing buildings. The fuel cell facility would comply with all applicable Department of Energy and Environmental Protection (DEEP) air and water quality standards. The facility would meet DEEP noise regulations without the need for sound remediation.

Comparison of proposed Fuel Cell facility with RCSA Criteria¹

Pollutant	Bloom Energy Server (lbs/MWh)	Emissions standards (lbs/MWh)
Nitrous Oxides (NO _x)	<0.01	0.15
Carbon Monoxide (CO)	<0.1	1
Carbon Dioxide (CO ₂)	735-832 (w/ natural gas)	1,650

The proposed facility would emit no methane (CH₄), sulfur hexafluoride (SF₆), hydrofluorocarbons (HFC) or perfluorocarbons (PFC), which are greenhouse gasses defined in Regulations of Connecticut State Agencies Section 22a-174-1(49).

¹ Regulations of Connecticut State Agencies Section 22a-174-42(b)(3)(C); 22a-174-42(d)(2)(B)(ii) & Table 42-2



The fuel cell facility is designed in accordance with American National Standards Institute and Canadian Standards Association (ANSI/CSA) America FC 1-2004 standard for stationary fuel cell power systems and includes extensive safety control systems - including both automatic and manual shutdown mechanisms - that comply with pertinent engineering standards.

Sulfur dioxide is injected in natural gas as an odorant. The sulfur dioxide is removed from the gas for use in the fuel cell, a process called desulfurization. The desulfurization materials of the proposed facility would be contained and disposed of in accordance with all applicable regulations.

The Connecticut Public Utilities Regulatory Authority (PURA), in its Final Decision in Docket No. 12-02-09, determined that Bloom's Energy Server qualifies as a Class I renewable energy source as defined in Conn. Gen. Stat. § 16-1(a)(26)(A).

Prior to filing this petition, a representative from Core States Group, Bloom's engineering consultant, discussed the proposed Facility with the City's Planning and Zoning Department Planner, Todd Dumais. On December 11, 2015, Bloom provided notice of the project to abutting property owners, West Hartford officials and required state agencies. On December 15, 2015, Bloom provided notice of the project to Newington town officials. On the field review, Catherine Dorau, Associate Planner for West Hartford, voiced concern regarding the noise that would be produced by the fuel cells, and stated that nearby residents had contacted the Town by phone to voice concerns about the noise levels. On February 1, 2016, the Council received a Sound Study submitted by Core States Group stating that the proposed fuel cell facility would comply with the applicable sound level limits in the Connecticut DEEP Noise Control Regulations and the Town of West Hartford Municipal Code, with a predicted sound level of 45 dBA at a height of five feet above ground level at the nearest site property line approximately 150 feet from the proposed facility, which is less than the State noise emission limit of 51 dBA at night.

The proposed installation of the fuel cell is not expected to have any substantial adverse environmental impacts. It would reduce the emission of air pollutants that contribute to smog, acid rain, and global climate change. It would also contribute to the state's use of renewable energy.

Aerial view of site location at 60 Woodlawn Street, West Hartford (taken from Google Earth)



