

**THE UNIVERSITY OF CONNECTICUT**

**PROPOSAL CLARIFICATION #2**

**December 23, 2011**

**PROPOSAL DUE DATE:** January 10, 2012  
**TIME:** 2:00 PM  
**PROJECT:** Energy Purchase Agreement  
**PROJECT NO:** 112911LM  
**LOCATION:** University of Connecticut  
Capital Projects & Contract Administration  
3 North Hillside Road  
Storrs, CT 06269  
Attn: Lisa Mieszkowicz

**Please note the following clarifications:**

- **RFI deadline has been extended to December 28, 2011 by 2:00 pm.**
- **RFP deadline has been extended to January 10, 2012 by 2:00 pm.**
- **Enclosed is the REVISED RFI Log.**
- **Refer to the Additional Attachments - RFI zip file which contains the following:**
  - **Letter of Agreements**
  - **Regional Energy Bills**
  - **Additional Avery Point Drawings**
  - **West Hartford HVAC Study**
  - **Greater Hartford Switchgear Drawings**

**End of Proposal Clarification #2**

(REVISED 12/23/11) RFI QUESTIONS AND ANSWERS - RFP for Project 112911LM Energy Purchase Agreement for Regional Campuses

RFI No.	Question	Response
1	<b>All Regional Campuses:</b> Please provide evidence of any energy audits completed within the last 60 months, either by a third party, local utility, etc. and any energy efficiency measures completed as a result of those audits, including identification of the measure, cost, payback, etc.	Energy Audits were completed at the Waterbury and Stamford campuses. We will forward the letter of agreement with CL&P and Yankee Gas for the Fuel Cell application.
2	<b>All Regional Campuses:</b> Please provide electric interval data in excel format covering a minimum of 12 months; please identify which meter and building(s) each set of interval data covers.	All proposers will have access to MDATA via a university supplied password. For security, the University will call the contact person with the password. User Id: univ-cust <b>Account Number</b> 51-766042022 51-917702078 51-282662097 51-029472016 51-995004074 51-715742060 <b>SA Account Number</b> 819761003 824841009 968181008 621781007 681762005 573171001 Stamford and Waterbury one hour data will be supplied. Refer to the Attachments - RFI zip file enclosed
3	<b>All Regional Campuses:</b> Please provide copies of electric and natural gas bills for a minimum of 12 months; please identify which meter and building(s) each set of bills cover.	Xcel spreadsheet with usage available now for CNG accounts. A set of current bills(electric and gas) for the last 4 months can be provided now and the balance will follow. Refer to the Attachments - RFI zip file enclosed
4	<b>All Regional Campuses:</b> Please clarify the desire of the University and intent of the RFP as it relates to grid independent operation; does the University expect that the fuel cell will provide backup power to all or a portion of each campus in the event of a grid outage	Assume grid dependent for all regional campuses
5	<b>All Regional Campuses:</b> Does the University have jurisdiction over/for construction permits; would there still be a requirement for a construction permit with the local municipality.	The University Building and Codes department has jurisdiction over all construction permits at all regional campuses.
6	<b>All Regional Campuses:</b> The RFP request the following with respect to the various sections of a proposal: one original and eight copies of the technical section; one original and one copy of the form of proposal; and one original and one copy of financials. Please clarify the University's requirement as it relates to the fact that there are five separate campuses within the RFP.	One original and eight copies of the technical proposal; One original and eight copies of the form of proposal; and one original and one copy of financials
7	<b>Avery Point:</b> We suggest Uconn contact their electric provider at the Avery Point campus to inform them of the University's RFP and their interest in investigating fuel cells at the campus.	University has had conversations with Groton Utilities in this regard.
8	<b>Law School:</b> Please provide a link to or copy of the CHP study noted on page 3, section 4e of the RFP.	Refer to the Attachments - RFI zip file enclosed
9	<b>Law School:</b> We would like to confirm with CL&P that they will allow for net metering on the fuel cell. We request permission to speak to CL&P regarding the project at the Law School; if permission is provided, please provide contact information for the local CL&P representative for the campus.	University will provide written permission to CL&P for proposer. Contact information is Nicholas V. Foligno, Account Executive, CL&P, Ph: 860-280-2230
10	<b>Law School:</b> Please provide the current outside air reset schedule for the Library and Starr Buildings.	The indoor air temperature discharge from the air handlers do not re-set with outside temperature. Hot water loop temperatures do re-set. For the library, OA = 0/60, HW = 190/175; For Starr bldg OA=0/60, HW=180/160.
11	<b>Law School:</b> Please confirm it is acceptable to remove trees at the Law School Campus to accommodate the University's desired location(s) for the fuel cell equipment.	It is acceptable to remove trees. Please identify which trees would require removing in your submittals.
12	<b>Stamford:</b> Please confirm whether the Stamford campus is fed from CL&P via a network or radial system feed.	UConn is fed off a Dual Primary Network Feeder on Circuit 1G08. The CL&P rep for Stamford is Olivia M. Roberts 203-352-5403.
13	<b>Stamford:</b> Please clarify the locations where the fuel cell may be located, specifically related to the three original locations provided during the site walk-thru and other alternative locations.	Walk thru would suggest 2 potential locations; the area of the dumpsters off of Franklin Street and the garden area off Washington street. Both locations require further review and approvals with the town and uconn. If alternatives are preferred please advise as part of the RFP response.
14	<b>Stamford:</b> Please clarify the termination points for the two spare conduit that originate on the Washington Blvd. side of the campus inside the building near the natural gas PRV station room.	University requires providers run their own conduits.
15	<b>Stamford:</b> Please provide a copy of the most recent retro commissioning report for the campus.	Same as 1 above.
16	<b>Waterbury:</b> Please provide an electrical one line for the campus electric gear.	Refer to Dgs E5.10 Waterbury Files then Waterbury Camp const. Doc. Phase II Volume III BI- 900897 in the the Attachments - RFI zip file.
17	<b>Waterbury:</b> Please advise whether the University would consider moving the emergency generator to the ledge above the quad prior to the fuel cell project such that the fuel cell can be installed where the generator is currently located.	University would consider having provider relocate the generator but believes there is insufficient time to negotiate this through the appropriate external parties.
18	<b>Waterbury:</b> Please provide a copy of the conceptual drawings for the campus expansion per the Master Plan.	The discussed locations for the fuel cell do not impact the master plan.
19	<b>Waterbury:</b> Please provide a copy of the most recent retro commissioning report for the campus	Same as 1 above.
20	<b>Waterbury:</b> We would like to confirm with CL&P that they will allow for net metering on the fuel cell output. UTC Power requests permission to speak to CL&P regarding the project at the Waterbury campus; if permission is provided, please provide contact information to the local CL&P representative for the campus.	University will provide written permission to CL&P for proposer. Contact information is Carrie Raybeck, Account Executive, CL&P, Ph: 203-597-4232. CL&P will allow for net metering with an approval process being completed.
21	<b>West Hartford:</b> Please provide the current outside air reset schedule for the library and undergraduate student centers.	The indoor air temperature discharge from the air handlers do not re-set with outside temperature. Hot water loop temperatures do re-set in the typical 55 to 0 (110 to 180) range.
22	<b>West Hartford:</b> Would the University be willing to implement an occupied and unoccupied outside air reset schedule, whereby a building(s) heating system set point would be determined by occupancy as well as outside air temperature. If yes would the University consider an unoccupied hot water set point of 140 deg. F.	Yes, We would be willing to consider this idea.
23	<b>West Hartford:</b> Please provide the hours of operation for the library building and the undergraduate student center.	The hours of operation are monday thru friday 7am to 10pm and saturday, 7am to 5pm.
24	Can you please provide the annual kWh consumption for each meter (if multiple on a single campus) on each campus. Also can you please provide a €/kWh price (all in commodity + Transmission + Distribution etc.) for each campus? This will allow each proposer to use the same assumptions when calculating the project economics.	Spreadsheets provided for each campus has >12 month of usage and billing data for electric and gas.
25	All Five Regional Campuses: Please provide the following documents in Word form; RFP document and Division One document.	These documents are only available in .pdf format. Division One file is enclosed in the Proposal Clarification

26	Avery Point: Please provide the annual electric loads (kW and kWh) at the campus and specifically at the MSB, including as available, in hourly interval format.	Spreadsheets provided for each campus has >12 month of usage and billing data for electric and gas. Refer to the Attachments - RFI zip file enclosed
27	Stamford: Please provide information or clarification regarding electric utility metering, specifically whether the two main switchboard meters are totalized.	The two meters are totalized on the spreadsheet but individual data is available via password provided. Refer to the Attachments - RFI zip file enclosed
28	Avery Point: Please provide an electrical one line for the campus electric gear and an electric utility site map.	Refer to the Additional Attachments - RFI zip file
29	All Five Regional Campuses: Please provide the following values and/or rates (for each campus) to use for the savings analysis required in the request for proposals: avoided cost of electricity; avoided cost of fuel; boiler efficiency; annual escalation rates for purchased electricity and natural gas.	Refer to the Additional Attachments - RFI zip file
30	Avery Point: UTC Power would like to confirm with Yankee Gas the sufficiency of natural gas, pressure volume, etc. for the proposed fuel cell at Avery Point. UTC Power requests permission to speak to Yankee Gas regarding the project; if permission is provided, please provide contact information of the local representative for the campus.	No objection to contacting Yankee Gas, Customer Service - 800-438-0900
31	Avery Point: Please provide the AHU schedule drawings for the Science Building; the documents are referenced on the cover page on the drawing package for the Science Building, but were not provided in the original Avery Point drawing package.	Attached Avery Point AHU Schedule in the Additional Attachments - RFI zip file.
32	Avery Point: Please provide the monthly steam generation information from the CUP for a period 12 months; this will be used to determine the reheat (heating) load at the Marine Science Building (MSB). If specific data is available on the reheat loads for the MSB, please provide that data, including reheat water temperature set points, outside air temperature setbacks.	Attached Avery Point 12 month Steam Generation in the Additional Attachments RFI zip file.
33	Avery Point: Please confirm that it is acceptable to use the building pipe chase in the MSB as a means to pipe thermal energy from the outside fuel cell location to inside the mezzanine level of the MSB.	We have no objection to using the pipe chase provided all work meets current code compliance.
34	Please provide the annual electric loads (kW and kWh) at the campus and specifically at the MSB, including as available, in hourly interval format	Spreadsheets provided for each campus has >12 month of usage and billing data for electric and gas.
35	Avery Point: Please confirm which air handler units (AHU) at the MSB are 100% outside air and what the flow rates (CFM- cubic foot per minute) are for those 100% outside air AHUs.	See Attached AHU Schedule in the Additional Attachments RFI zip file.
36	Avery Point: Please confirm the timeframe between on load tests for the reciprocating engine at the MSB and whether those tests are done in parallel with the local utility or if the building is disconnected from the utility prior to the engine being tested on load.	The Generator is not test run on building load, it has it's own load bank that is used for testing.
37	West Hartford: Please provide a minimum voltage (4160V) utility distribution map for the campus.	Refer to the Additional Attachments - RFI zip file
38	West Hartford: Please confirm the average heating loads at the library and undergraduate center are 1.2MMBtu/hr and 750kbtu/hr, respectively.	Refer to the West Hartford HVAC Study provided in the Additional Attachments RFI zip file
39	West Hartford: Please provide drawing package for the new electric primary feed project in progress at the campus	Refer to the Additional Attachments - RFI zip file
40	Stamford: Please provide an electrical one line for the campus electric gear	Unable to locate
41	All Five Regional Campuses: We would like to contact the local electric distribution company for each of the sites (CL&P and Groton Utilities) regarding interconnection, net metering and other items specific to the installation of a fuel cell at each of the sites: if permission is provided, please provide contact information for the local representatives for each campus	CL&P Law School - Nicholas Foligno (860)280-2230 CL&P Stamford - Olivia Roberts (203)352-5403 CL&P Waterbury - Carrie Raybeck (203)597-4232 CL&P West Hartford - Mark Massaro (860)651-7504 Groton Utilities - Mike Fedor (860)446-4024
42	We request an extension to 2 pm, January 16th 2012 for the RFP deadline, We also request a coincident extension to 2pm December 23, 2011 for the deadline for RFIs.	RFI deadline has been extended to December 28, 2011 by 2:00 pm. RFP deadline has been extended to January 10, 2012 by 2:00 pm.
43	As suggested in the bidding documents we have reached out to the Clean Energy Finance and Investment Authority (CEFIA) for an indicative estimate of the grant value. As you know they cannot commit to a grant level until an economic review is complete and their board approves a project. That being said, each bidder may use a different funding level making it difficult for an accurate financial comparison. I believe it would be helpful to instruct each bidder to use the same \$/kW assumption. A budgetary # of \$1500/kW was suggested by CEFIA.	CEFIA's recommendation to use \$1500/kW as a budgetary assumption can be used. It is suggested that each proposer clearly indicate such assumptions in their proposal submission.