

**2014 Electric Vehicle Charging Station Proposal
City of Burlington**

1. COVER LETTER

December 6, 2013

Dick Valentinetti
Director, Air Pollution Control Division
State of Vermont
Davis Building - 2nd Floor
One National Life Drive
Montpelier, VT 05620-3802

Dear Mr. Valentinetti:

This letter is to demonstrate the Burlington Electric Commission's interest in and support of the following proposal to fund electric charging station infrastructure in Burlington's downtown core. We believe the advent of vehicle charging stations in Burlington's shopping and entertainment district will not only enhance the City's economic vitality, and reduce air pollution and green house gases, but will help support the establishment of a statewide network of charging stations.

The City has identified two areas in our downtown core that we believe are the most suitable and desirable for this work: the Marketplace Garage (on Winooski Avenue between Cherry and Bank Streets) and the Lakeview Garage (on Cherry Street, off Battery Street). In order to make this work possible, the City is prepared to offer a generous match in the form of labor, staff time and assistance from Nissan Motors.

If you have questions regarding the attached proposal, or about the City's interest and commitment to this effort, please do not hesitate to contact me or Tom Buckley at BED, at 865-7339. I would be happy to send you a copy of a resolution in support of this application after it is taken up by our Commission at its December 11, 2013 meeting.

Sincerely,

Spencer Newman

Spencer Newman, Chair, Burlington Electric Commission
Burlington Electric Department
585 Pine Street, Burlington, VT 05401
802-865-7406

cc: Mayor Miro Weinberger
Barbara Grimes, General Manager, BED
Tom Buckley, Manager, Customer and Energy Services, BED



2014 ELECTRIC VEHICLE CHARGING STATION PROPOSAL CITY OF BURLINGTON

INTRODUCTION

Burlington is well known as a community with a high quality of life and a small and vibrant downtown core -- within a spectacular setting on the shores of Lake Champlain. This reputation is due in part to the City's small size, entrepreneurial spirit, civic-minded citizens and activist government. One of the many factors that make Burlington such a great place to live, work and visit is the community's commitment to sustainability, greenhouse gas reduction, and a clean natural environment.

Burlington's commitment to environmental stewardship is well articulated in the Climate Action Plan and more recently its downtown and waterfront plan (locally known as PlanBTV, <http://www.burlingtonvt.gov/PlanBTV/>), approved by the City Council on June 10, 2013. The advent of electric charging stations is one key way to meet the goals outlined in these documents, while also providing the benefit of reducing air pollution, encouraging energy efficiency in the transportation sector, and bolstering economic development and downtown growth.

This proposal outlines Burlington's initial plans to grow its electric vehicle support infrastructure with the help of state funds and in-kind support and technical expertise from the Burlington Electric Department, the Department of Public Works, and the Community and Economic Development Office, as well as equipment pricing assistance from the Nissan Motor Corporation.

2. PROJECT DESCRIPTION

BED, along with Department of Public Works, have identified two key locations in the City where the placement of electric vehicle charging stations (EVCS) can most significantly impact a reduction in air pollution and greenhouse gases, while economically stimulating the downtown core. The first site is in the Lakeview Garage, where the City proposes adding 2 - level 2 dual outlet chargers to replace (or supplement) the existing electric outlets for 3 EV parking spaces. The second site is the Marketplace Garage, one of Burlington's busiest public parking facilities, where the City proposes the installation of a level 3 charger.

Summary: These two sites were identified after an assessment of the user profiles of these public areas. The Marketplace Garage has a high percentage of users able to benefit from a 1/2 - 1 hour charge, particularly those shopping and dining on Burlington's Church Street, the center of our downtown core. The Lakeview Garage, located off Battery Street on Cherry Street, can service longer term parkers, including those using any of the 3 adjacent hotels. This location is most suited for a 2 – 4 hour charger.

Fees for using these services are still in the development stage, but an initial expectation will be around \$2.50 - \$4.00 for a level 2 charge, and \$4.00 for a "fast charge" (level 3), pending Public Service Board approval. Pay processing for users will be both RFID and 800-number enabled. As part of its vendor-provided network, BED will maintain the communication systems that support the chargers and will administer the fee program. BED will own and operate the chargers separately from DPW's existing electric accounts.

BED and the DPW are ready to begin construction upon funding approval, and are prepared to have the level 3 unit operational by March 31st, 2014. Work is currently underway to reserve the proposed sites for the sole purpose of EV charging. The DPW is prepared to supply appropriate signage to clearly mark and identify where these stations are located. BED and the Community and Economic Development Office staff actively serve on the marketing committee of the state-funded Drive Electric Vermont initiative managed through Efficiency Vermont, and will work to ensure that the Burlington's new infrastructure is captured and highlighted in regional, statewide, and local marketing efforts.

Budget: The City is requesting \$30,000 towards the total project cost of \$57,887. Burlington's match will come in part from a \$20,000 rebate provided by Nissan Motor Corp. Additional support will be in the form of administrative and technical support and installation labor, for a total match of \$27,887. A detailed budget estimate follows:

1. MARKET PLACE, LEVEL 3 CHARGER UNIT

Meter pedestal with breaker 200 ampere 3 phase 120/208 volt	\$2,000.00	1	\$2,000
2 inch conduit	\$1.00/ft.	200	\$200
#1THHN wire	\$2.00/ft.	800	\$1,600
Hardware & fitting	\$500.00	1	\$500
Equipment rental	\$500.00	1	\$500
Labor	5 FTE	\$100.00/hr.	40
		Contingency	\$1,200.00
		Est. install cost	Total
			\$10,000
Charging Station	Fuji charger	\$20,000.00	
	Software - ChargePoint	\$960.00	
	Activation portal setup	\$300.00	
	S & H	\$1,500.00	
	Est. station cost	\$22,760.00	Total
			\$22,760
Ad/tech support			\$2,000
		Grand total	\$34,760

2. LAKEVIEW GARAGE: 2 DUAL LEVEL-2 CHARGER UNITS

Meter Center with 8 two-pole 40 ampere breakers	120/208	\$1,400.00	2	\$2,800
1 inch conduit		\$0.50/ft.	200	\$100
#8THHN wire		\$0.32/ft.	1600	\$512
Hardware & fitting		\$200.00	1	\$200
Labor	2 FTE@ app. 2 days	\$100.00/hr.	32	\$3,200
Equipment rental		\$200.00	1	\$200
	Contingency	\$600.00	1	\$600
	Est. install cost		Total	\$7,612

Charging Station	CT4021	dual w/gateway	\$6,190.00	
	CT4021	dual non gateway	\$5,855.00	
	S & H each	\$375 times 2	\$750.00	
	Software - ChargePoint		\$320.00	
	Activation portal setup		\$400.00	
		Est. station cost	\$13,515.00	Total
Adm/tech support				\$2,000
			Grand total	\$23,127

3. MAP OF THE DESIGNATED DOWNTOWN

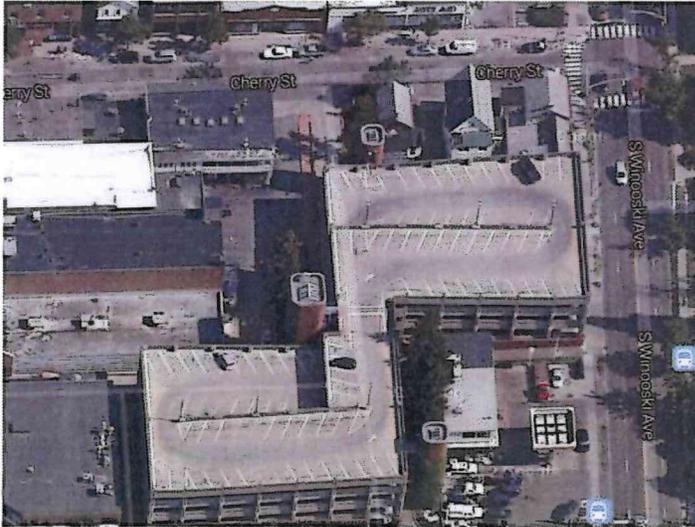
Attached please find a map that clearly illustrates Burlington’s designated downtown with the location of the proposed EVCS and related improvements.

4. PHOTOGRAPHS

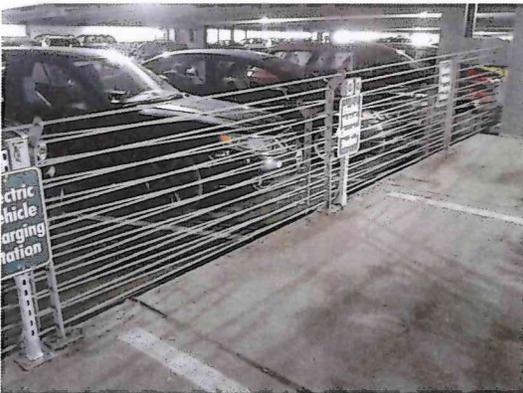
1. Proposed Marketplace Garage site for level 3 charger, looking east, ground floor, between Cherry and Bank Streets, 50’ from Church Street Market Place entrance:



2. Aerial view of the Marketplace Garage and location of Level 3 charger, off Winooski Ave., one block east of the Church Street Marketplace:



3. Lakeview Garage, proposed site of 2 dual level 2 EVCS, ground level, facing east, 30' from main garage entrance off of Cherry Street, 4 blocks from Church Street Marketplace:



4. Aerial view of the Lakeview Garage:



5. RESPONSE TO THE “COMPETITIVE CRITERIA COMPETITIVE CRITERIA

Responses to the competitive requirements are included in the body of this proposal, including: project effectiveness and impact; ease of implementation; visibility and convenience; community location; and ordinance work to ensure the EVCS space is reserved exclusively for electric vehicles.

6. SIGNED COPY OF THE CONFLICT OF INTEREST NOTICE AND WAIVER FORM

Please see attached.

Proposed Electric Vehicle Charging Stations

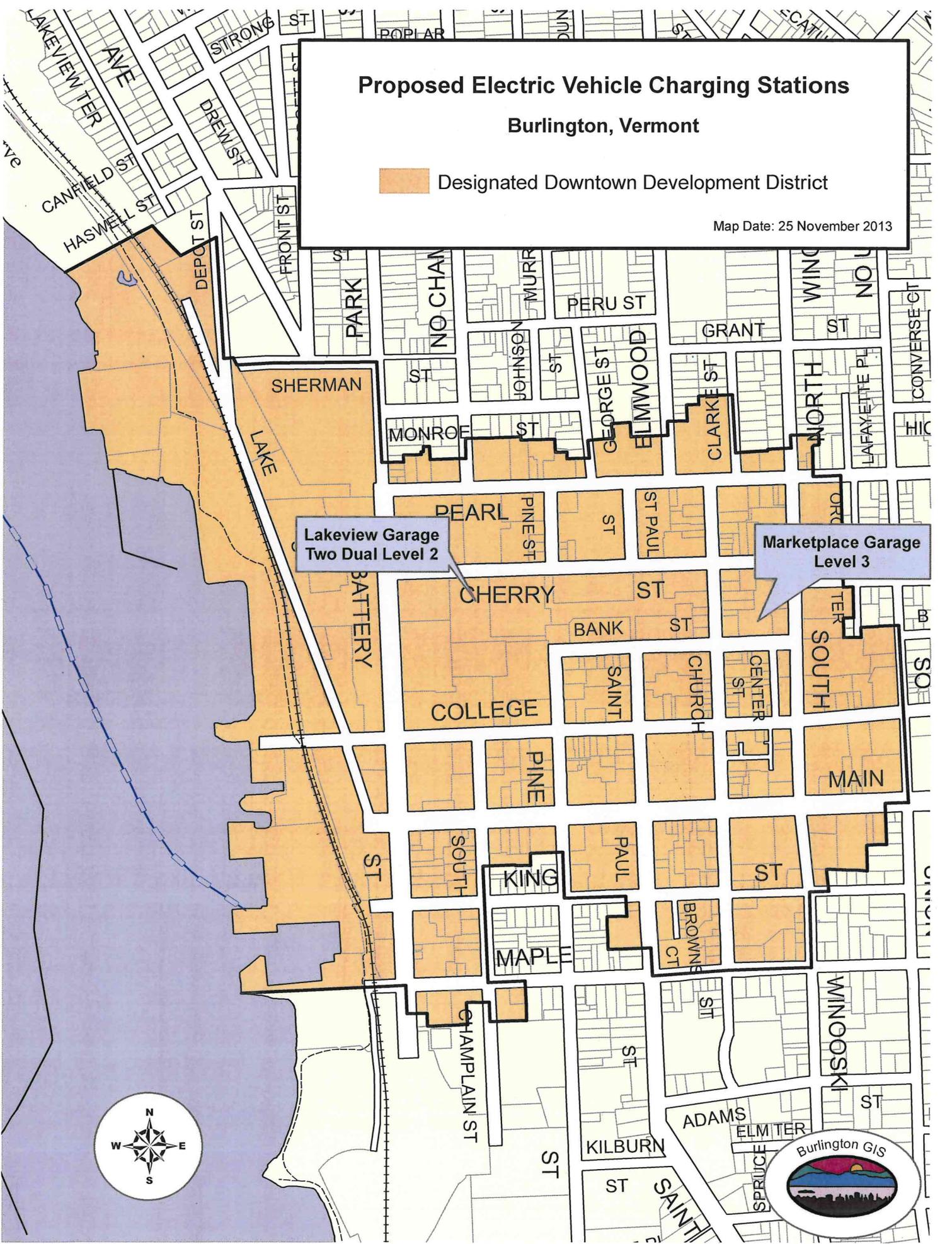
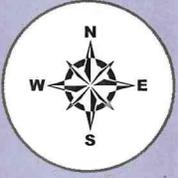
Burlington, Vermont

Designated Downtown Development District

Map Date: 25 November 2013

Lakeview Garage
Two Dual Level 2

Marketplace Garage
Level 3



**DOWNTOWN DEVELOPMENT BOARD
NOTICE AND WAIVER**

1. NOTICE. In its appearance(s) before the Vermont Downtown Development Board ("Board"), the municipality seeking designation or incentives ("Applicant") understands the following:

- (a) pursuant to statute, the 13 member Board includes three public members representative of local government, one of whom is designated by the Vermont League of Cities and Towns, and two of whom are appointed by the Governor;
- (b) such public members described in subpart (a), above, may be municipal employees or may have some other connection to, or affiliation with, municipalities appearing before the Board;
- (c) all public members who: (1) are employees of a municipality appearing before the Board, (2) have any other significant interest in the outcome of the business of such municipality before the Board, or (3) know of a significant interest of a member of his or her immediate family or household, or of a business associate, in the outcome of the business of such municipality before the Board, will recuse themselves from all scoring of, or voting directly concerning, applications from such municipality, but will vote on other applications pending at that Board meeting.

2. WAIVER. By checking the appropriate indication below and signing this form, Applicant indicates whether it agrees or disagrees that the above described processes and procedures are sufficient, in its judgment, to avoid both conflicts of interest and the appearance of conflicts of interest by any member of the Board, who may have a connection to, or affiliation with, a municipality that has submitted an application and who is present and voting during the particular meeting at which the Board is to consider such application.

APPLICANT

Please check one: (X) APPROVAL OR () DISAPPROVAL of the above policy.

By: Tom Buckley

Title: Manager, Customer & Energy Services

Municipality: Burlington

Date: December 3, 2013