



City of Bradenton, Florida

City Council Agenda Memorandum

Agenda Item:	Electric Vehicle Charging Station Award Opportunity	Agenda Date:	Jul 20, 2011
Originated by:	Benjamin Bird	Agenda Placement:	Consent Agenda
Authorized by:	Tim Polk		

Explanation

Under the ChargePoint America Program administered by the U.S. Department of Energy and Coulomb Technologies, Inc., the City of Bradenton is eligible to receive a donation of 8 electric vehicle charging stations. The City received formal notification of the award on July 7, 2011 and has until July 31st to notify ChargePoint whether it intends to accept all 8, accept a limited number, or deny the award entirely.

Financial Impact

No financial impact to the Bradenton's general budget. Funds covering the installation of the stations would be derived from an existing Energy Efficiency and Conservation Block Grant delegated to the City by the U.S. Department of Energy. The cost to complete the installation of all stations is approximated at \$8,251.37.

Requested action to be taken by Council

Approve

Staff Recommendation

Approve

Attachments

Program Overview, Map

ChargePoint America Program Overview DE-EE0003391

Background: ChargePoint America is a program established by the American Recovery and Reinvestment Act through the Transportation Electrification Initiative. Under a grant administered by the U.S. Department of Energy (DOE), Coulomb Technologies Inc. (CTI), a California-based electric vehicle charging station manufacturer, was delegated the responsibility of donating over 5,000 stations to nine select metropolitan regions throughout the United States. DOE's overall intent in creating the program was to pave the way for electric vehicles by addressing a substantial lack of supporting infrastructure and additionally to collect data on the usage of EV's by individuals, businesses, and local governments. In order to facilitate the incorporation of EV infrastructure, the program provides Coulomb stations free of charge to applicable organizations within the nine metropolitan regions.

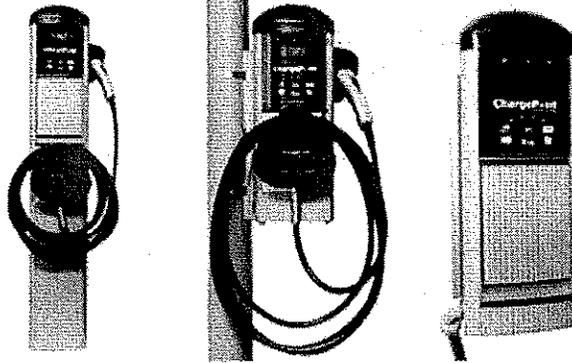
Initially, Orlando was the only metropolitan area in Florida that was designated to receive EV stations as a result of the ChargePoint America Program. However after the Tampa Bay region showcased a strong initiative for supporting EV's, the program was extended to a three county zone consisting of Hillsborough, Manatee, and Pinellas. Within this region, 100 stations are available on a first-come, first serve basis to entities that apply and meet DOE's award criteria.

Requirements: In order to be awarded stations under the ChargePoint America Program, the receiving entity must agree to the following conditions:

- Stations must be installed within 45 days of delivery. Installations must be compliant with the Davis Bacon and Related Acts (DBRA) standards.
- Stations must be accessible to the public 24 hours a day, 7 days a week.
- Stations must be connected to the ChargePoint Network Service through December 31, 2013 in order that the DOE and CTI may obtain program data. After this point, subscription to the network is optional.
- Once installed, a station cannot be removed, moved, or sold until January, 1st of 2014 unless otherwise approved by written consent CTI. Following this period, the respective awardee is free to use the station as they please.

Award: ChargePoint donates Coulomb CT2100 dual-mode charging stations (~ \$6,500 to \$8,000 ea.) to awardees. As part of the award, the recipient receives a free subscription to the ChargePoint Network Standard Service through December 31st, 2013. ChargePoint Network Service provides for on-demand web-accessed applications including access control, billing, advertising, remote diagnostics, demand side management, station map locations, and station-trip-mapping. Additionally, the award provides a CTI warranty on all charging stations through December 31st, 2013 covering parts and labor over the duration of the program. If the City wishes to continue the warranty beyond this period, an extended 5-year plan is available.

CT2100 Mounting Configurations (Bollard, Pole, Wall)



Sample ChargePoint Network Station Locator Map

Find Stations

Legend: Available In Use Future/Unavailable (click to zoom in)

Name: LANDMARC / LANDMRC 01
Address: 1001 N Howard Ave, Tampa, Florida 33607, United States
Description: Located on front wall of building to left of driveway
Status as of: 2011-07-14 11:27:45 (EDT)
Port 1: 120V, 16A, NEMA 5-20R Available
Port 2: 208V, 20A, J1772 Available
Access: Unrestricted
Action: Get Directions
Price: Free

Bradenton Award: On June 23rd, Bradenton submitted a reservation request to be considered for 8 electric vehicle charging stations under ChargePoint America. On July 7th, the City received formal notification that it had been awarded all 8 of the requested stations. This award in and of itself does not obligate Bradenton to accepting the stations as the City is free to deny the full award, elect to take a limited number, or elect to accept all 8. Receipt of the stations is contingent upon a City representative signing the agreement and having it returned no later than July 31st.

Location Summary: One of the main precepts of the ChargePoint Program is that all stations must be installed in such a manner as to make them fully accessible for use by the general public. Accordingly, taking into account such factors as visibility, traffic frequency, future use, etc., Bradenton's Sustainability Manager and a representative from EcoTechnologies (the local Coulomb Technologies distributor) identified 8 preliminary points for charging stations in the immediate downtown area. A follow-up review of these sites was later conducted with the Sustainability Manager and EcoTechnologies rep joining in coordination with the City's Master Electrician and Facilities Manager to examine location suitability. Special emphasis was placed on selecting only those sites where existing metered City electrical accounts were already in place, thereby minimizing costs and precluding the need for complex installations involving long conduit runs and major disruptions to sidewalk areas.

Based on this secondary review, the following 8 locations were selected. These placements are not set in stone and can be redistributed as desired up till the date of installation.

- *City Hall* – Bollard station at parking spaces near the Intersection of Old Main and Barcarrota
- *Mattison's Riverside* – Bollard station on the western side of the parking lot
- *Manatee Fountain* – Pole mount to an existing streetlight just east of the fountain
- *South Florida Museum* – Bollard station on the far north end of the on-street parking area
- *Intersection of Old Main Street & 4th Ave West* – Pole mount on existing city street light
- *Rossi Waterfront Park* – Pole mount on existing city street light at the far north end of the parking area
- *City "Judicial Center" Parking Garage* – Wall mount near the 12th street entrance
- *County Parking Garage* – Wall mount just beyond the 10th street entrance

Installation Cost Summary: Total cost of installation has been approximated at \$8,251.37, taking into account the cost of material and cost of commissioning for each unit at each given site. Materials expenses were estimated by the City's Master Electrician incorporating factors such as the amount of wiring, conduit, breakers, surge protection, etc. that are required for each setup while additionally featuring a small "cushion" should extra materials be necessary. Commissioning cost, a fixed price for each unit, covers the expense for EcoTechnologies technicians to configure each station, bringing them online, and train City staff members to manage stations via ChargePoint Network software.

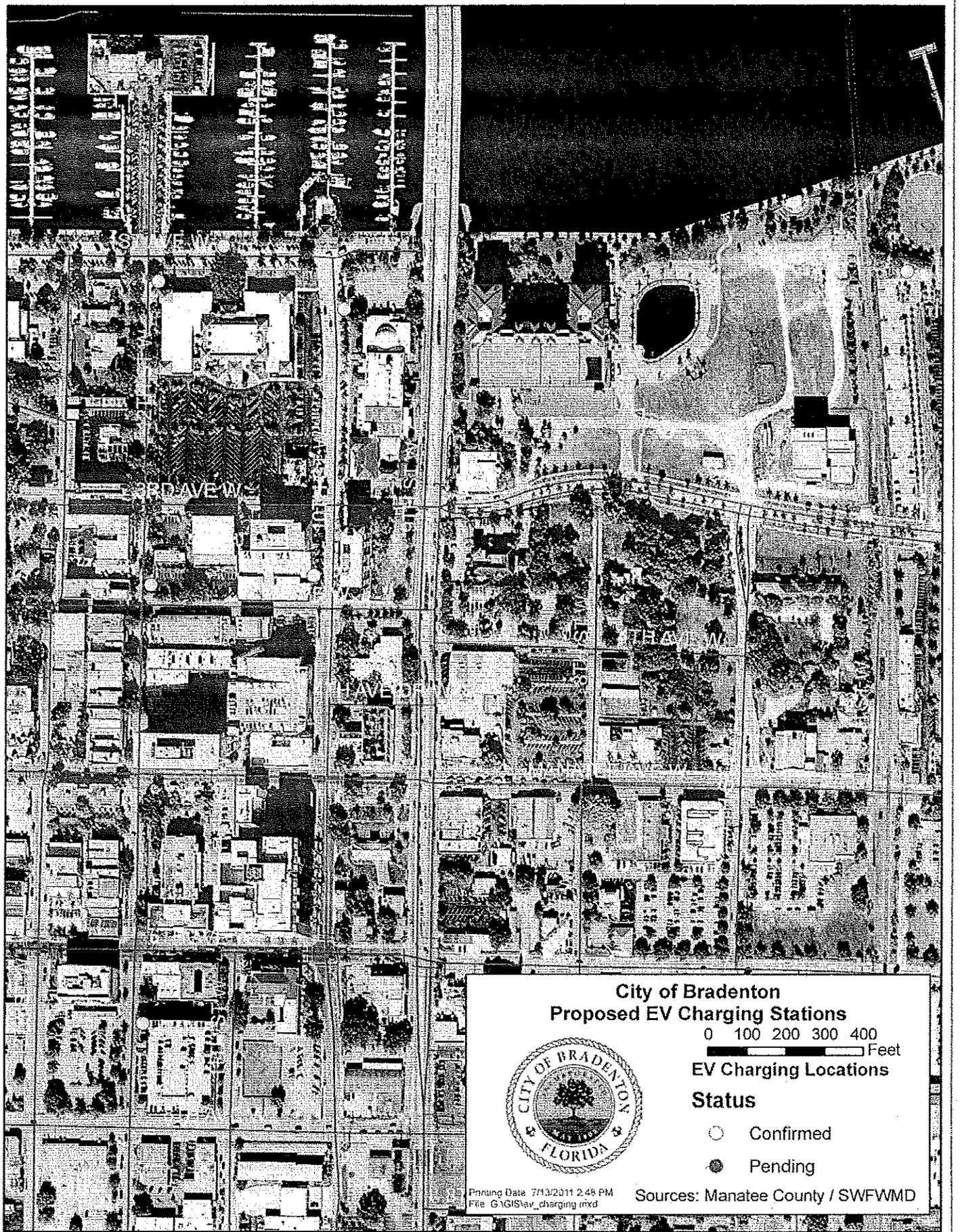
Should the City decide to move forward, all installation costs will be covered through existing Energy Efficiency and Conservation Block Grant funds previously delegated to the City by the U.S. Department of Energy. Through discussion with the Master Electrician and review of station technical manuals, it was determined that City electrical staff had the capability to complete all installations thereby negating the cost of hiring a third party. Moreover the Public Works Director has agreed that these installations can be integrated into the electrician's general work week, rendering it unnecessary to supplement the electrician's time with additional wages. Lastly, the Public Works Director has also agreed that signs demarcating the stations can be covered through the existing budget of the sign shop.

**Electric Vehicle Charging Station
Installation Costs**

Location	Materials Cost Estimate	Comissioning Cost
City Hall	\$ 330.61	\$ 550.00
Mattison's *	\$ 172.98	\$ 550.00
Manatee Statue **	\$ 818.85	\$ 550.00
S. FL Museum	\$ 818.85	\$ 550.00
Old Main Street	\$ 218.74	\$ 550.00
Rossi Waterfront Park	\$ 363.94	\$ 550.00
City Parking Garage	\$ 563.70	\$ 550.00
County Parking Garage	\$ 563.70	\$ 550.00
Total	\$ 3,851.37	\$ 4,400.00
Installation Total	\$ 8,251.37	

*An existing City metered account was not available at this location, therefore placement is contingent upon approval of Mattison's to utilize their individual power supply.

**Location was added following the initial review when a previously identified point was determined to be unsuitable. An official materials cost estimate has yet to be calculated however it is projected not to exceed that of the S. FL Museum.



**City of Bradenton
Proposed EV Charging Stations**

0 100 200 300 400
Feet

EV Charging Locations

Status

- Confirmed
- Pending



Printing Date: 7/13/2011 2:48 PM
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Sources: Manatee County / SWFWMD