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May 22, 2020

Richard H. Llewellyn, Jr., Chair
Municipal Facilities Committee
200 N. Main Street, Suite 1500
Los Angeles, CA 90012

STATUS OF ELECTRIC VEHICLE CHARGER INFRASTRUCTURE PROGRAM

As requested by your Committee, the following report presents the status of the Electric Vehicle (EV) Charger Infrastructure Program for facilities managed by the Department of General Services (GSD). Attached is a list of projects and status of MICLA funding approved for the program.

BACKGROUND

In March 2017, GSD, Bureau of Engineering (BOE), and Bureau of Street Lighting (BSL) prepared a joint report on a Citywide Plan for Electric Vehicle Charging Infrastructure (Council File 14-0079-S2). The report included a plan to implement a network of EV chargers for City residents, visitors, and employees. Projects are prioritized based on electrical capacity and readiness of a building, public and employee demand, location and size of the facility/geographic distribution, and available funding.

PROJECTS COMPLETED

Since the program started in 2017-18, GSD has installed 210 EV chargers, of which, 115 are for City fleet, and 95 are for the public and employees. Twenty chargers were installed since the last report to the MFC in October 2019:

- 8 chargers for fleet and public/employee use at the West Valley Municipal Building
- 7 chargers for fleet use at Western and Hollywood DOT parking enforcement sites



- 2 portable solar chargers for fleet use at the Valley DOT parking enforcement site
- 3 chargers for fleet use in the City Hall Upper Garage

PROJECTS IN PROGRESS

Of the proposed projects for installation, the following are in progress with an estimated 328 total EV chargers. The Braude Building and LADOT Southern Parking Enforcement Office are ready for construction. The rest of the facilities are in various stages of design. Final number of chargers will be determined once power load studies and designs are complete. As we did for previous sites, GSD and the Bureau of Engineering will work closely with the contractor to manage the design and construction of these projects.

Facility	Level 2 Chargers	DC Fast Chargers	Total # of Chargers
Figueroa Plaza	105	3	108
Braude Building	20	-	20
Council District 7 Pacoima City Hall	4	-	4
Council District 15 San Pedro City Hall	8	-	8
Council District 14 Eagle Rock City Hall	2	-	2
Council District 9 Constituent Service Center	6	-	6
6 Animal Shelters	58	-	58
Personnel Building	6	-	6
Medical Services Building	10	-	10
EOC/Fire Station #4	12	-	12
Piper Tech	76	3	79
BSS- Westchester Yard- 7154 W. Manchester Ave	4	-	4
BSS- Facility Maintenance- 2222 E. 7 th St.	2	-	2
LADOT Parking Enforcement- Southern- 7510 S. Figueroa St.	4	-	4
LADOT Parking Enforcement- Central- 1016 N. Mission Rd.	5	-	5
Total	322	6	328

FUTURE SITES

Other projects for future implementation are listed on the attached plan through fiscal year 2021-22, as requested by the CAO. The list of projects is a plan and subject to revision based on available funding and prioritization of locations. The plan will be continuously updated and future projects/years may be added.

STATUS OF MICLA FUNDING

The attached MICLA EV Budget Status shows expenditures and available amounts for the two years of funding approved for this program. For 2017-18 funding, the current uncommitted balance is \$9,106. For 2018-19 funding, the uncommitted balance is \$19,842. The department expects several projects to be completed and paid before the end of the fiscal year. Account balances will be updated regularly. Some project costs are revised due to change orders, or as rebates are received from LADWP. As a customer of LADWP, GSD will apply for rebates of up to \$5,000 for a Level 2 single port charger; \$5,750 for a Level 2 dual port charger; and \$75,000 for a DC fast charger.

The attached plan shows \$21.5 million in projects, however, program funding is currently \$8 million. A majority of the costs in the plan are estimates. Available funding for future projects will be determined as installations are completed and actual costs are determined. GSD also plans to pursue grants as they become available. If necessary, the department will request additional funds in future budgets.

GSD will continue to update the Committee on the status of the program. For more information, please contact Lisa Gabriel, GSD Chief Sustainability Officer at (213) 928-9585.

A handwritten signature in black ink, appearing to read "Tony M. Royster". The signature is written in a cursive, flowing style with a horizontal line above it.

Tony M. Royster
General Manager

MICLA EV Budget Status

As of May 21, 2020

Budget Fiscal Year Appropriation	2017-18 40P25F	2018-19 40R25F
Adopted Budget	\$ 4,860,000	\$ 3,500,000
Transfers Out	\$ (670,599)	\$ (133,000)
Encumbered	\$ (1,708,282)	\$ (2,876,968)
Expended	\$ (2,472,013)	\$ (470,191)
Total Available Amount for Future Projects	\$ 9,106	\$ 19,842

Detail for Transfers Out:		
<i>Budget Fiscal Year</i>	2017-18	2018-19
Bureau of Street Lighting	\$ 300,000	
ITA	\$ 16,113	
GSD Construction Division	\$ 354,486	\$ 133,000
<i>Total</i>	\$ 670,599	\$ 133,000

**GSD ELECTRIC VEHICLE
CHARGING INFRASTRUCTURE PROJECTS
As of May 2020**

Summary		Existing EV Chargers	Proposed EV Chargers	Chargers Installed To- Date	Estimated Cost: Projects In Progress or Planning	FINAL COST: Projects Completed
YEAR 1: 2017-18						
FLEET		4	0	22	\$ -	\$ 116,753
PUBLIC/EMPLOYEE		0	0	0	\$ -	\$ -
	TOTAL YEAR 1: 2017-18	4	0	22	\$ -	\$ 116,753
YEAR 2: 2018-19						
FLEET		0	0	77	\$ -	\$ 635,278
PUBLIC/EMPLOYEE		0	0	91	\$ -	\$ 1,933,076
	TOTAL YEAR 2: 2018-19	0	0	168	\$ -	\$ 2,568,354
YEAR 3: 2019-20						
FLEET		0	59	16	\$ 1,880,074	\$ 423,670
PUBLIC/EMPLOYEE		2	286	4	\$ 5,586,869	\$ -
	TOTAL YEAR 3: 2019-20	2	345	20	\$ 7,466,943	\$ 423,670
YEAR 4: 2020-21 (Continue unfinished projects from Year 3 and/or advance proposed projects from Year 5)						
FLEET		0	0	0	\$ -	\$ -
PUBLIC/EMPLOYEE		0	0	0	\$ -	\$ -
	TOTAL YEAR 4: 2020-21	0	0	0	\$ -	\$ -
YEAR 5: 2021-22						
FLEET		0	382	0	\$ 9,440,000	\$ -
PUBLIC/EMPLOYEE		5	73	0	\$ 1,460,000	\$ -
	TOTAL YEAR 5: 2021-22	5	455	0	\$ 10,900,000	\$ -
	SUBTOTAL FLEET 5 YRS	4	441	115	\$ 11,320,074	\$ 1,175,701
	SUBTOTAL PUBLIC/EMPLOYEE 5 YRS	7	359	95	\$ 7,046,869	\$ 1,933,076
	TOTAL 5 YRS	11	800	210	\$ 18,366,943	\$ 3,108,777

**GSD ELECTRIC VEHICLE
CHARGING INFRASTRUCTURE PROJECTS
As of May 2020**

Item	Department	Location/Address	Existing EV Chargers	Proposed EV Chargers	Chargers Installed To-Date	Completion Date	Estimated Cost: Projects In Progress or Planning	FINAL COST: Projects Completed
YEAR 1: 2017-18								
	FLEET							
	DOT	1016 Mission Road (Central Parking Enf.)			2	3/8/2018		PAID BY DOT
	DOT	Harbor Parking Enf.			3	3/9/2018		
	DOT	Southern Parking Enf.			3	3/12/2018		
	DOT	Hollywood Parking Enf.			3	3/18/2018		
	DOT	Western Parking Enf.			3	4/14/2018		
	GSD Fleet Services sites	7th Street Training & Safety/Tech Svcs/Hdqtrs	4		4	6/30/2018		\$ 54,450
	GSD Fleet Services sites	Piper Tech			2	6/30/2018		\$ 27,487
	GSD Fleet Services sites	N. Hollywood Facility			2	4/30/2018		\$ 34,816
		SUBTOTAL FLEET	4	0	22		\$ -	\$ 116,753
	PUBLIC/EMPLOYEE							
		SUBTOTAL PUBLIC/EMPLOYEE	0	0	0		\$ -	\$ -
		TOTAL YEAR 1: 2017-18	4	0	22		\$ -	\$ 116,753
YEAR 2: 2018-19								
	FLEET							
	GSD Fleet Services sites	Heliport			4	9/7/2018		\$ 49,039
	Rec and Parks	Valley Regional HQ (6335 Woodley Ave., Van Nuys)			4	6/1/2019		\$ 60,237
	Rec and Parks	Pacific Regional HQ (1670 Palos Verdes Dr, Harbor City)			2	12/21/2018		\$ 38,932
	City Hall	City Hall Upper Garage			11	6/30/2019	Cost for City Hall is included under Public/Employees CHE cost	
		City Hall Upper Garage- Additional			1	11/21/2018		\$ 8,339
	City Hall East	P1 Stalls C and D			27	4/30/2019		\$ 478,730
	City Hall East	P1 GSD Motor Pool			6	4/30/2019		
	City Hall East	P1 Van Parking Area			2	4/30/2019		
	City Hall East	P2 LAFD Inspector Fleet			20	4/30/2019	Cost for P2 LAFD is included under Public/Employees CHE cost	
		SUBTOTAL FLEET	0	0	77		\$ -	\$ 635,278

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CHARGING INFRASTRUCTURE PROJECTS
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	PUBLIC/EMPLOYEE							
	City Hall East	P1 LA Mall/Commercial			9	6/30/2019	<div style="border: 1px solid black; padding: 5px;"> This amount includes the following Fleet Projects: P2 LAFD and City Hall </div>	\$ 1,933,076
	City Hall East	P1			2			
	City Hall East	P2			27			
	City Hall East	P3			18			
	City Hall East	P4			23			
	City Hall	Upper Garage			3			
	City Hall	Lower Garage			9			
		SUBTOTAL PUBLIC/EMPLOYEE	0	0	91			
		TOTAL YEAR 2: 2018-19	0	0	168		\$ -	\$ 2,568,354

YEAR 3: 2019-20

FLEET								
	Bureau of Street Services	Facility Maintenance (2222 E. 7th Street, Los Angeles)			2	6/30/2020	\$ 55,405	
	Bureau of Street Services	San Pedro (1400 N. Gaffey St., San Pedro)			2	6/30/2020	\$ 47,414	
	Bureau of Street Services	West Valley Facility (19040 Vanowen St. Reseda)			4	4/30/2020	\$ 89,575	
	Bureau of Street Services	Westchester (7154 W. Manchester Ave., Los Angeles)			4	6/30/2020	\$ 68,598	
	DOT - Southern PE	7510 S. Figueroa St., Los Angeles, 90003			4	6/30/2020	\$ 80,196	
	DOT - Western PE	11214 Exposition Blvd., Los Angeles, 90064				6/30/2020		\$ 93,383
	DOT - Central PE	1016 N. Mission Rd., Los Angeles, 90033			5	6/30/2020	\$ 93,886	
	DOT - Hollywood PE	411 N. Vermont Ave., Los Angeles, 90004				6/30/2020		\$ 59,059
	DOT - Valley PE (Portable Solar Chargers)	12544 Saticoy St., 91605				1/7/2020		\$ 245,124
	City Hall	City Hall Upper Garage- Additional				12/31/2019		\$ 26,104

**GSD ELECTRIC VEHICLE
CHARGING INFRASTRUCTURE PROJECTS
As of May 2020**

Item	Department	Location/Address	Existing EV Chargers	Proposed EV Chargers	Chargers Installed To-Date	Completion Date	Estimated Cost: Projects In Progress or Planning	FINAL COST: Projects Completed
	GSD Fleet Services sites	Piper Tech Motor Pool (555 Ramirez St., Los Angeles)		10		6/30/2020	\$ 270,000	
	GSD Emergency Fuel Sites	BOS - South LA Yard, (786 S. Mission, Los Angeles 90023)		1		6/30/2020	\$ 595,000	Cost for Fast Chargers may increase due to inadequate power at fuel site.
	GSD Emergency Fuel Sites	BOS - East Valley Yard (11050 Pendleton St., Sun Valley 91352)		1		6/30/2020		
	GSD Emergency Fuel Sites	BOS - West Valley Yard (8820 Vanalden St., Northridge 91324)		1		6/30/2020		
	Various	Personnel Building MSD (Temple Street)		2			\$ 40,000	
	Various	Emergency Operations Center		2			\$ 40,000	
	Various	West LA Municipal Building (1645 Corinth Ave)		5			\$ 100,000	
	Various	Animal Shelters (6 Locations)		16			\$ 320,000	
	Various	San Pedro Municipal Building (638 South Beacon St)		2			\$ 40,000	
	Various	CD9 Constituent Service Center (4301 South Central Ave)		2			\$ 40,000	
SUBTOTAL FLEET			0	59	16		\$ 1,880,074	\$ 423,670
	PUBLIC/EMPLOYEE							
	Personnel Building	Vignes Street		6			\$ 120,000	
	Personnel Building MSD	Temple Street		8			\$ 160,000	
	Emergency Operations Center			10			\$ 200,000	
	Piper Tech			69			\$ 1,415,000	
	West LA Municipal Building	1645 Corinth Ave	2	7			\$ 140,000	

**GSD ELECTRIC VEHICLE
CHARGING INFRASTRUCTURE PROJECTS
As of May 2020**

Item	Department	Location/Address	Existing EV Chargers	Proposed EV Chargers	Chargers Installed To-Date	Completion Date	Estimated Cost: Projects In Progress or Planning	FINAL COST: Projects Completed
	Animal Shelters	6 Locations		42			\$ 840,000	
	Figueroa Plaza	Level 1-4		108			\$ 1,970,436	
	Braude Building	Upper and Lower Garage		20			\$ 317,699	
	West Valley Municipal Building	19040 Vanowen St			4	4/30/2020	\$ 103,733	
	Pacoima Neighborhood City Hall	13520 Van Nuys Blvd		4			\$ 80,000	
	San Pedro Municipal Building	638 South Beacon St		6			\$ 120,000	
	Eagle Rock Municipal Building	2035 Colorado Blvd		2			\$ 40,000	
	CD9 Constituent Service Center	4301 South Central Ave		4			\$ 80,000	
		SUBTOTAL PUBLIC/EMPLOYEE	2	286	4		\$ 5,586,869	\$ -
		TOTAL YEAR 3: 2019-20	2	345	20		\$ 7,466,943	\$ 423,670

YEAR 4: 2020-21 (Continue unfinished projects from Year 3. If there are remaining funds from MICLA 2018 and 2019, projects from year 5 will be advanced to year 4.)

	FLEET							
	Various Emergency Fuel Sites and other locations TBD: Number of chargers to be installed will be dependent on funding available for infrastructure, funding to replace vehicles with EV's and the availability of EV's			TBD			TBD	
		SUBTOTAL FLEET	0	0	0		\$ -	\$ -
	PUBLIC/EMPLOYEE							
	Various Locations TBD: Install chargers at maintenance yards and other locations as necessary, add chargers to existing locations due to increased demand, add DC Fast Chargers at high use areas.			TBD			TBD	
		SUBTOTAL PUBLIC/EMPLOYEE	0	0	0		\$ -	\$ -
		TOTAL YEAR 4: 2020-21	0	0	0		\$ -	\$ -

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As of May 2020**

Item	Department	Location/Address	Existing EV Chargers	Proposed EV Chargers	Chargers Installed To-Date	Completion Date	Estimated Cost: Projects In Progress or Planning	FINAL COST: Projects Completed
YEAR 5: 2021-22 (A budget request will be submitted.)								
	FLEET							
	Rec and Parks	CSY Headquarters (3900 Chevy Chase Dr., Los Angeles)		12			\$ 240,000	Please Note: Number of chargers to be installed will be dependent on funding available for infrastructure, funding to replace vehicles with EV's and the availability of EV's
	GSD Emergency Fuel Sites	City Hall East (200 N. Main St., Los Angeles 90012)		1			\$ 200,000	
	GSD Emergency Fuel Sites	BOS - North Central Yard (452 San Fernando Rd., Los Angeles 90065)		1			\$ 200,000	
	GSD Emergency Fuel Sites	BOS - West LA Yard (2027 Stoner Ave., Los Angeles 90025)		1			\$ 200,000	
	GSD Emergency Fuel Sites	DOT - Western Yard (2801 Exposition Blvd., Los Angeles 90018)		1			\$ 200,000	
	GSD Emergency Fuel Sites	DOT - Southern Area Parking Enforcement (7510 Figueroa St., Los Angeles 90003)		1			\$ 200,000	
	GSD Emergency Fuel Sites	Rec & Parks - Pacific Region Yard (1670 N. Palos Verdes Dr., Harbor City 90710)		1			\$ 200,000	
	GSD Emergency Fuel Sites	Rec & Parks - Valley Region Yard (6335 Woodley Ave., Van Nuys 91406)		1			\$ 200,000	
	GSD Emergency Fuel Sites	Rec & Parks - Central Service Yard (3900 Chevy Chase Dr., Los Angeles 90039)		1			\$ 200,000	
	GSD Emergency Fuel Sites	Fire Department - Fire Station 6 (326 N. Virgil Ave., Silverlake 90004)		1			\$ 200,000	
	GSD Emergency Fuel Sites	Fire Department - Fire Station88 (5101 N. Sepulveda Blvd., Sherman Oaks 91403)		1			\$ 200,000	
	Various Departments/Locations- The total number of chargers to be installed are based on the 720 light duty vehicles (sedans) that will be up for replacement in 2022, half of which will be purchased as EVs. These vehicles support department operations including DOT, Street Services, Recreation & Parks and GSD.			360			\$ 7,200,000	
SUBTOTAL FLEET			0	382	0		\$ 9,440,000	

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	PUBLIC/EMPLOYEE							
	Van Nuys Municipal Building	14410 Sylvan St		4			\$ 80,000	
	El Sereno Field Office	4927 E. Huntington Drive North, Suite 100		4			\$ 80,000	
	Boyle Heights Field Office	2130 E. 1st Street, Suite 241, 90033		4			\$ 80,000	
	West LA Service Center (Sawtelle)	1828 Sawtelle Blvd		4			\$ 80,000	
	Wilmington Municipal Building	544 North Avalon Blvd	3	3			\$ 60,000	
	Mark Ridley Thomas Constituent Service Center	8475 South Vermont Ave	2	2			\$ 40,000	
	Westchester Municipal Building	7166 West Manchester Ave		4			\$ 80,000	
	Hollywood Neighborhood City Hall	6501 Fountain Avenue		4			\$ 80,000	
	Sunland - Tujunga Municipal Building	7747 Foothill Blvd		4			\$ 80,000	
	Watts Municipal Building	1513 East 103rd St		4			\$ 80,000	
	CD 10 Field Office	1819 S. Western Avenue, 90006		4			\$ 80,000	
	El Pueblo Lot 2	1 Location		25			\$ 500,000	
	El Pueblo Lot 1	1 Location		7			\$ 140,000	
		SUBTOTAL PUBLIC/EMPLOYEE	5	73	0		\$ 1,460,000	\$ -
		TOTAL YEAR 5: 2021-22	5	455	0		\$ 10,900,000	\$ -
		SUBTOTAL FLEET 5 YRS	4	441	115		\$ 11,320,074	\$ 1,175,701
		SUBTOTAL PUBLIC/EMPLOYEE 5 YRS	7	359	95		\$ 7,046,869	\$ 1,933,076
		TOTAL 5 YRS	11	800	210		\$ 18,366,943	\$ 3,108,777

NOTES:

1. Projects are prioritized based on criteria as described in the Citywide Plan for Electric Vehicle Infrastructure (CF 14-0079-S2) and is based on electrical capacity and readiness of building; public and employee demand;
2. Projects may be initiated in one year with design/permitting and not begin construction until the following year.
3. For Fleet chargers, future years are projections based on the number of sedans past their life cycle. Total count meets the Mayor's goal to purchase 50% of replacement vehicles as EVs. Projects are prioritized based on
4. For Public/Employee chargers, future projects are selected based on criteria in Note 1 and projects are initiated as funding allows.