

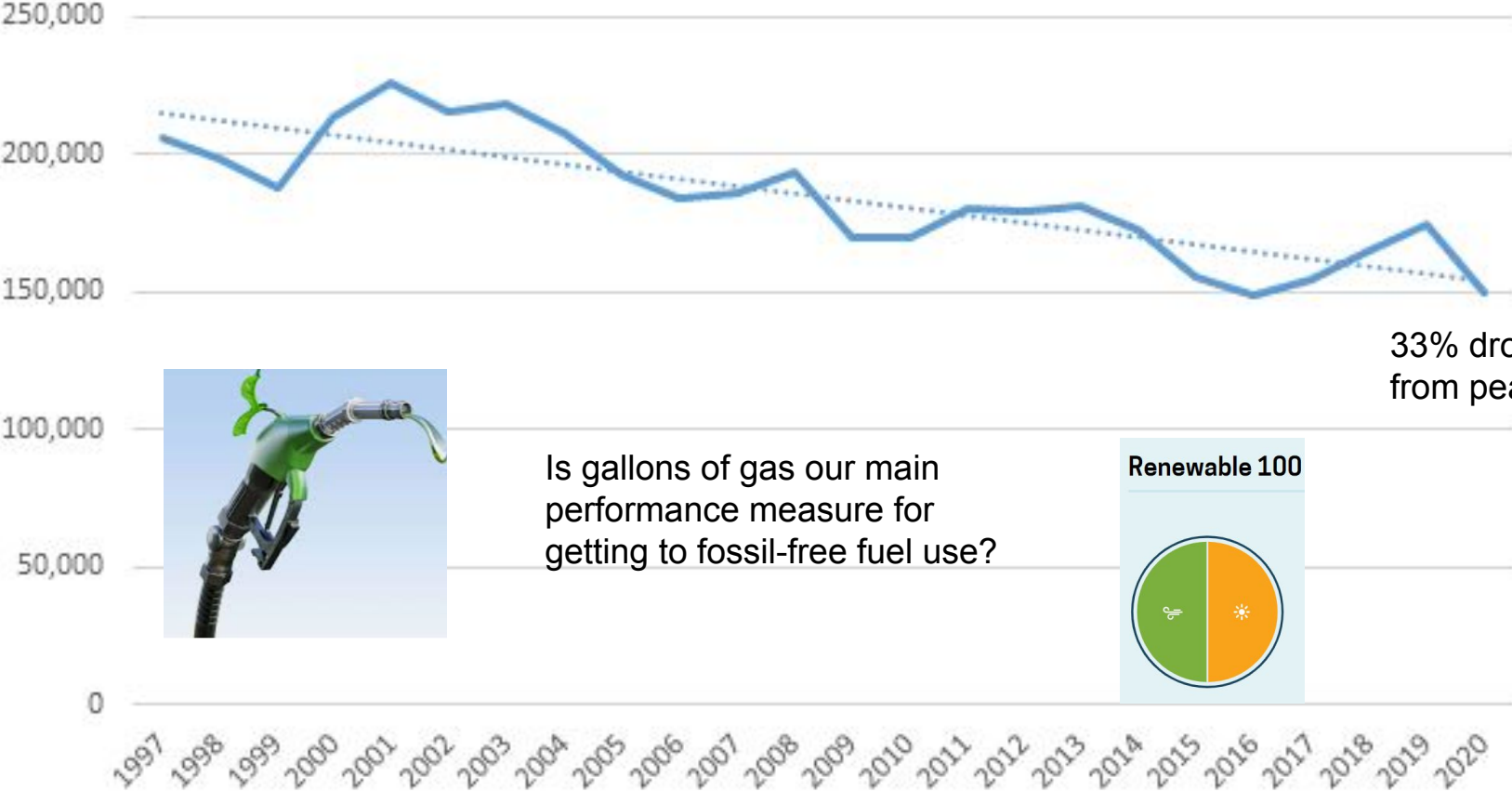
City of Berkeley Municipal Fleet Electrification Assessment



Prepared for: East Bay Community Energy on behalf of the City of Berkeley

- Why electrification?
- EV status in 2020:
2 scooters, 15 Prius Primes (PHEV)
- Assessment's main conclusions
 - Get chargers installed
 - Focus on light-duty fleet of
129 sedans, scooters, SUVs
 - Then to medium-duty fleet
- Additions to assessment

City Fleet's Gasoline in Gallons Used from 1997 - 2020



33% drop from peak



Is gallons of gas our main performance measure for getting to fossil-free fuel use?

Renewable 100

The Renewable 100 logo consists of a circle divided vertically. The left half is green and contains a white leaf icon. The right half is orange and contains a white sun icon. The logo is set against a light blue rectangular background.

Get Chargers in Place

- 30 charging stations now, 58 chargers
- 2 more by EOY
- Corp Yard at \$850k
- 2 more in T1/PH2
- What about Marina and PEO EVs?
- Need \$250k in FY 23 and FY 24
- How does this get formalized into CIP?

Facility Name	Chargers	Installation Status
Center Street Garage 2025 Center	28 dual-head, 1 single L2 (existing)	Installed and in service
Mental Health Clinic 2636/2640 MLK	2 dual-head L2	Installed 1 dual head L2. Ready for add'l dual head at \$25k in FY 22/23.
Berkeley Transfer Station, 1201 Second	1 dual-head L2	Will install March 2021, 1 dual head L2
North Berkeley Senior Center, 1801 Mount Airy	1 dual-head L2	Will install Aug 2021, 1 dual head L2
Corp Yard, 1326 Allston	4 dual-head L2, 1 DCFC	Seeking \$850,000 for Apr 2022 installation, enabling up to 100 chargers
South Berkeley Senior Center, 2939 Ellis	1 dual-head L2	1 dual head in T1, Phase 2 Project
Mental Health Clinic 1800 Alcatraz	1 dual-head L2	1 dual head in T1, Phase 2 Project
Berkeley Marina 125/127 University	4 dual-head L2	Proposed FY 22/23 (\$80k). Need new PGE service, more charging stations, and right features for 2026 deployment of 27 PEO scooters. No charger \$s.
Civic Center, 2180 Milvia	2 dual-head L2	Proposed FY 22/23 (\$95k)
Public Safety Building 2100 MLK	1 dual-head L2	Proposed FY 22/23 (\$35k)
Central Library Parking Lot, 2031 Bancroft	1 dual-head L2	Proposed FY 23/24 (\$40k)
Adult Mental Health Clinic, 1521 University	3 dual-head L2	Proposed FY 23/24, but this is a leased facility.
Totals:	51 charging stations	100 chargers

Light Duty Fleet

- Data is messy, needs further refining
- Goal reached in 2028 rather than 2030
- Purchases evened out
- SUVs: Hybrid, EV, patrol v regular use
- Note 27 PEO scooters in 2026
- Update schedule in CIP

Year	Sedans/Wagons	(Revised) Sedans/Wagons	SUVs	(Revised) SUVs	(Revised) Scooters	Comments
2020	1	0	0		2	Not included: 46 hybrids, 15 PHEVs
2021	29	6	3			Not included: +3 PD Hybrid SUVs and +4 Hybrid F150 pickups
2022	10	11	8		3	Not included: +8 PD Hybrid SUVs Requesting \$33,000 to purchase 11 BEVs.
2023	3	11	1			
2024	4	11	1			Requesting extra \$200,000 for 5 EV sedans.
2025	4	11	0			
2026	11	11	0		27	PEO's scooters. Will need budget for add'l chargers to support scooters.
2027	6	11	0			
2028	3	12	0			
2029	0	0	0			
2030	1	0	0			

Medium Duty Fleet

- First hybrid pickups this year
- Push in 2023-2027 on EVs
- Corp Yard is key
- Remember, renewable diesel

Heavy Duty Fleet

- Transfer Station rebuild
- Internal Service Fund, Gas Surcharge, and Carbon Offsets?

Partners

EBCE: assessment, municipal fleet charging, municipal solar + storage project

....remember blackouts

BAAQMD, PGE, Electrify America: grants

OESD and PW: Proposed hire of a Mobility Coordinator per Electric Mobility Roadmap