





























	# 1 (D e f a u	lt)		Scenario #2 (Vehicle Swap or Off-Site Charging)							
A 20	25	2026	2027 - 2040*	A	2025	2026	2027 - 2040*				
B 20	26	2027	2028 - 2040*	6	2034	2035	2036 - 2040*				
				UO pur	C the equivalen chase schedule	t non-EV. A for POE ar	Iternatively, maintain EV nd leverage off-site charg	ging.			
				UO pur	C the equivalen chase schedule Planned EV repla POE (2026 to 203	t non-EV. A for POE ar cements at	Iternatively, maintain EV ad leverage off-site charg	ging. InsatUOC			
				UO pur SUV	C the equivalen chase schedule Planned EV repla POE (2026 to 203 s	t non-EV. A for POE ar cements at ³⁴⁾	Iternatively, maintain EV ad leverage off-site charge Vehicle swap optior (total vehicle count) SUV's	ging. InsatUOC 37			







				HOURS OF CHARGING FOR 0-100% (FULL)*				CHARGER/VEHICLE					
	Vehicle Type	ZEV Make	ZEV Model	Level 2 (7.2kw)	Level 2 (19.2kw)	Level 3 (40kw)	Level 3 (60kw)	Level3 (120kw)	Level 2 (7.2kw)	Level 2 (19.2kw)	DC dual port (40kw)	Level 3 (60kw)	Level 3 (120kw)
1	Sedan	Nissan	Leaf	6.2	2.3	1.3	0.8	0.4					
2	SUV	Hyundai	Ioniq 5 Standard Range	9.0	3.4	1.8	1.2	0.6	2.0				
3	Light-Duty Pickup Truck	Ford	F-150 Lightning	15.1	5.7	3.1	2.0	1.0		8.0	4.0		
4	Paratransit Bus	GreenPower	EV Star BEB	18.2	6.8	3.7	2.5	1.2					
5	Van	Envirotech	Logistics Van	16.4	6.1	3.3	2.2	1.1		9.0	4.5		
6	Refuse Truck	Peterbilt	520EV	61.1	22.9	12.4	8.3	4.1					
7	Street Sweeper	Battle Motors	Electric Elgin Broom Bear	61.7	23.1	12.5	8.3	4.2					
8	Medium-Duty Utility Service Truck	Rizon	e18M	12.7	4.7	2.6	1.7	0.9					
9	Heavy-Duty Utility Service Truck	Battle Motors	LET2 - Electric	61.7	23.1	12.5	8.3	4.2					
12	Medium-Duty Bucket Truck	Terex	HR55 All Electric Bucket Truck	32.4	12.2	6.6	4.4	2.2			0.0	11.0	5.5
13	Heavy-Duty Bucket Truck	Lion	Lion8	38.9		7.9	5.3	2.6				4.0	2.0
14	Dump Truck	Battle Motors	LET2 - Electric	61.7	23.1	12.5	8.3	4.2				10	5.0
15	Flatbed Truck	Rizon	e18M	12.7	4.7	2.6	1.7	0.9		1.0	0.5		
18	Work Pickup Truck	Optimal EV	EV E1 Cutaway Chassis	17.4	6.5	3.5	2.4	1.2		28.0	14.0		
	•	•			•								
													Tota
						Total	- 19.2kW	Scenario	2	46	0 25	5 13	73
						Tota	al - 40kW	Scenario	2	0	23 0	13	38
									DEL1	A (NUM	BER OF CH	ARGER	S) 36















				HOU	RSOFCHA	RGING FO	R 0-100% (I	=ULL)*		CH	ARGER/VE	HICLE	
	Vehicle Type	ZEV Make	ZEV Model	Level 2 (7.2kw)	Level2 (19.2kw)	Level 3 (40kw)	Level 3 (60kw)	Level 3 (120kw)	Level 2 (7.2kw)	Level 2 (19.2kw)	DC dual port (40kw)	Level 3 (60kw)	Level3 (120kv
1	Sedan	Nissan	Leaf	6.2	2.3	1.3	0.8	0.4	0.0				
2	SUV	Hyundai	Ioniq 5 Standard Range	9.0	3.4	1.8	1.2	0.6	10.0				
3	Light-Duty Pickup Truck	Ford	F-150 Lightning	15.1	5.7	3.1	2.0	1.0		10.0	5.0		
4	Paratransit Bus	GreenPower	EV Star BEB	18.2	6.8	3.7	2.5	1.2					
5	Van	Envirotech	Logistics Van	16.4	6.1	3.3	2.2	1.1					
6	Refuse Truck	Peterbilt	520EV	61.1	22.9	12.4	8.3	4.1					
7	Street Sweeper	Battle Motors	Electric Elgin Broom Bear	61.7	23.1	12.5	8.3	4.2					
8	Medium-Duty Utility Service Truck	Rizon	e18M	12.7	4.7	2.6	1.7	0.9					
9	Heavy-Duty Utility Service Truck	Battle Motors	LET2 - Electric	61.7	23.1	12.5	8.3	4.2					
12	Medium-Duty Bucket Truck	Terex	HR55 All Electric Bucket Truck	32.4	12.2	6.6	4.4	2.2					
13	Heavy-Duty Bucket Truck	Lion	Lion8	38.9	14.6	7.9	5.3	2.6					
14	Dump Truck	Battle Motors	LET2 - Electric	61.7	23.1	12.5	8.3	4.2					
15	Flatbed Truck	Rizon	e18M	12.7	4.7	2.6	1.7	0.9					
18	Work Pickup Truck	Optimal EV	EV E1 Cutaway Chassis	17.4	6.5	3.5	2.4	1.2					
			_										Tota
						Total	- 19.2kW	Scenario	10	10	0 0	0	20
						lota	ai - 40kvv	Scenario					15
									DELI	A (NUME	SERUFC	HARGER	S) 5

	208V 30, 400A, kAIC	kW Total	272	Am	nps
New Service	600A, 480V, 30	_ 통을 7.2 kW	10	@208V	944
New Utility Transformer New Switchboard	250kVA 600A,480V, 30	Hora da kw	5	@480V	409
	RUSTING ELECTRIC TRANSFORMER IN CONCENTRY	(19 EVYL 2 - 7.3W SIGLE FORT (1) EVEL 2 - 0.7W SIGLE FORT (1) EVEL 2 - 0.7W (1) EVEL (1) EVEL 2 - 0.7W (1) EVEL (1) EVEL 2 - 0.7W (1) EVEL (1) EVEL	OF EXISTING ACCESSIBLE		



Existing Main	480V 3 0 ,	1600 A, kAIC	KW Total 필 관	7.2 kW	2434	@208V	Amps 8453	
			Charg Quant	40 kW 300 kW	23 13	@480V	3662	
New Ser	vice	400)0A, 480V, 3	зө	LV Transformer	1- 15 kVA- 4	80V/ 240, 1 0	
New Utility Tra New Switcl	nsformer board	1-40	2500kVA 1-4000A, 480V, 30			1-40A/2P, 2-#8, #10g in 1"PVC 60A, 120/240V, 10		
Breaker/ C&W,	L2-7.2kW	2 X (40A/2P,	2 X (40A/2P, 2- #8,#10G in 1" PVC)			1-100A/2P 3-#1,	#8G in 1.25"PV	
Breaker/C&W, I	L3 - 40kW _3 - 300kW	7 X (180A/3P, 2X (3-3/0, 6xG in 2.5" PVC)						

Evicting Main	2001/20	100A KAIC KW Total			272	4	Amps		
Existing Main	2007 30,	400A, KAIC	 ≣∰	7.2 kW	10	@208V	944		
			Quan	40 kW 300 kW	5		409		
New Sen	vice	600A, 480V, 30			LV Transformer	1- 75 kVA- 48	80V/ 240, 30		
New Utility Tra	nsformer	250kVA			LV TF Breaker/C&W	1-125A/3P, 3#1, #8G in 2" PVC			
New Switch	board	600A, 480V, 30			LV Panel	200A, 120/208V, 30			
Breaker/ C&W	2-72kW	10 X (40A/2	P 2-#8 #10	G in 1" PVC)	LV Panel Breaker/C&W	1-200A/3P, 2 x (4-3	/0, #6G in 2.5" P		
Breaker /C&W	13-40kW	5 X (60A/3P	3#4 #10G ir	1 25" PVC)					

Data	a	Key Assumptions						
1	Fuel Efficiency when no rated MPGe from OEM	 Used EPA calculation to determine Then discounted by 10% as manufacturer specifications are often known to be overstated Base assumption is that actual MPGe is 90% of listed 						
2	Annual Maintenance Costs	 Maintenance cost data is still limited for this market Available data suggests 50% lower costs when compared to ICE vehicles Assumed a conservative 40% reduction in costs compared to representative ICE vehicle type Repair costs increase with higher mileage; cost escalator will be applied during modeling 						
3	Other Costs	 Infrastructure & installation – costs incurred over 2 years (pre-construction costs in Yr. 1, construction in Yr. 2) Diesel fuel costs – forecasted based on US EIA <u>base case</u> scenario projections Gasoline fuel costs – forecasted based on US EIA <u>high oil price</u> scenario projections CNG fuel costs – escalated at 3% per year based on market forecasts EV rebates – max HVIP rebates per applicable electric vehicle purchased; decreasing by 10% year over year Salvage costs – assumed 10% of original vehicle purchase price for vehicles at or beyond end of useful life Power costs – assumed a single site subject to the Schedule SMEVC (Separately Metered EV Charging) rate EV costs – reducing costs 40% from 2020 to 2030, then increasing prices at 3% inflationary estimate 						
4	Other	Vehicles replaced before construction is completed will have to be charged publicly						

