

SUPPLEMENTAL APPENDIX

Paper Title: Optimizing Electric Vehicle Infrastructure

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This short online appendix presents several additional tables.

Table A1—: Summary Statistics by PUMA (Connecticut, 2024)

PUMA (2020)	L2 CS	L3 CS
Northwest Hills	35	9 (9)
Hartford Town	95	4 (4)
Connecticut River North	36	5 (5)
Capitol East	51	4 (6)
Northeastern Planning Region & Stafford Town	30	5 (5)
East Hartford, Manchester & Vernon Towns	72	13 (13)
Glastonbury, Wethersfield, Rocky Hill & Newington Towns	18	4 (25)
New Britain, Southington, Berlin & Plainville Towns	64	1 (22)
Capitol West	48	6 (6)
Shoreline Southeastern	90	9 (9)
Inland Southeastern	43	3 (8)
Lower Connecticut River Valley	71	6 (11)
New Haven Town	91	6 (6)
South Central West	37	9 (11)
South Central North	52	5 (19)
South Central East	43	14 (14)
Waterbury Town	44	2 (12)
Naugatuck Valley North	62	17 (17)
Naugatuck Valley South	20	1 (15)
Bridgeport Town	15	2 (7)
Bridgeport Suburban	33	12 (12)
Stamford & Greenwich Towns	55	10 (10)
Western Central	29	8 (9)
Norwalk & Westport Towns	53	2 (2)
Western North	30	9 (9)

Note: CS stands for charging stations. The L2 CS column shows the baseline number of L2 charging stations. The L3 CS column shows the baseline number of L3 charging stations, with the counterfactual value provided in parentheses.

Table A2—: Demand Estimation Coefficient Results

Variables	Model 1		Model 2		Model 3	
	Coef.	S.E.	Coef.	S.E.	Coef.	S.E.
Prices	-0.0321	0.026	-0.0318	0.026	-0.0317	0.026
Dollar per mile	-0.1565	0.047	-0.1572	0.048	-0.1567	0.046
Electric	-7.1711	15.889	-6.0906	15.121	-6.1462	14.764
PHEV	-6.0409	14.707	-6.5426	14.734	-6.6234	14.425
Hybrid	-1.6373	0.286	-1.6417	0.290	-1.6399	0.278
Diesel	-2.2449	0.423	-2.2481	0.423	-2.2510	0.423
Wheelbase	0.0425	0.022	0.0423	0.022	0.0420	0.022
Log HP / Weight	0.874	0.685	0.8662	0.686	0.8525	0.685
Doors	0.2055	0.144	0.2027	0.146	0.2024	0.142
Electric Range	-0.005	0.004	-0.0050	0.004	-0.0051	0.004
All charging stations / km^2 x Electric	0.030	0.022	-	-	-	-
L2 charging stations / km^2 x Electric	-	-	0.0326	0.023	-	-
DC charging stations / km^2 x Electric	-	-	-	-	0.223	0.191
Sigma: Constant	3.793	2.386	3.835	2.420	3.801	2.285
Sigma: Broad EV	3.643	7.164	3.661	7.175	3.701	6.991
Model FE	Yes		Yes		Yes	
Drive Type FE	Yes		Yes		Yes	

Table A3—: Cross-Price Elasticities for New Haven 2021

Model	Tesla Model-3 LR	Tesla Model-Y LR	Tesla Model-Y Perf	Honda CR-V EX	Toyota Rav4 XLE	Subaru Forester Prem	Nissan Rogue S	Jeep Grand-Cher Lim
Tesla Model-3 Long Range	-1.3792	0.0040	0.0038	0.0020	0.0007	0.0016	0.0002	0.0023
Tesla Model-Y Long Range	0.0021	-2.0462	0.0038	0.0020	0.0007	0.0016	0.0002	0.0023
Tesla Model-Y Performance	0.0021	0.0040	-1.2868	0.0020	0.0007	0.0016	0.0002	0.0023
Honda CR-V EX	0.0021	0.0040	0.0038	-1.3056	0.0007	0.0016	0.0002	0.0023
Toyota Rav4 XLE	0.0020	0.0039	0.0037	0.0019	-2.1990	0.0254	0.0039	0.0022
Subaru Forester Premium	0.0020	0.0039	0.0037	0.0019	0.0115	-2.3264	0.0039	0.0022
Nissan Rogue S	0.0020	0.0039	0.0037	0.0019	0.0115	0.0254	-2.8183	0.0022
Jeep Grand-Cherokee Limited	0.0021	0.0040	0.0038	0.0020	0.0007	0.0016	0.0002	-1.3634