

Supplementary Material

Table S1 presents the dataset used for the core case study scenario development and analysis. This dataset includes the coordinates (x, y) of each demand point and the number of EVs originating from it. The dataset includes 100 different demand points and 200 EVs in total.

Table S1. Dataset used for the case study development and analysis.

Demand point No.	Demand coordinates		Number of EVs
	x	y	
1	29	-24	3
2	25	44	3
3	45	-27	2
4	15	-39	1
5	7	-49	3
6	32	-9	1
7	-38	-21	3
8	-16	-4	1
9	-2	-40	1
10	-7	-8	3
11	19	-4	3
12	-42	37	3
13	16	-6	1
14	49	-28	1
15	-15	-43	2
16	-42	-30	2
17	-45	-2	2
18	-35	-1	3
19	-2	43	2
20	-36	-22	2
21	-30	31	1
22	14	44	2
23	41	-19	1
24	35	26	1
25	42	11	1
26	-39	21	2
27	23	10	2
28	46	30	1
29	6	-39	2
30	-2	-50	1
31	-32	-12	2
32	-34	-38	2
33	21	-4	3
34	20	-7	3
35	21	-10	2

36	16	-26	3
37	31	18	1
38	23	8	2
39	14	-2	1
40	-1	-23	3
41	0	-45	3
42	18	44	2
43	35	10	3
44	-40	22	1
45	-41	23	2
46	20	9	2
47	-38	-39	2
48	-1	50	2
49	-9	22	3
50	-24	26	3
51	25	-45	1
52	-23	-33	2
53	33	-42	2
54	-27	-23	3
55	-28	-19	2
56	39	27	1
57	23	-7	3
58	-44	14	1
59	-13	50	3
60	46	-22	1
61	32	23	1
62	8	-38	3
63	11	47	3
64	10	-4	2
65	48	48	2
66	48	-1	1
67	-18	9	3
68	47	31	2
69	14	-15	1
70	-38	12	1
71	-8	-28	3
72	-50	5	3
73	-19	45	3
74	-10	46	1
75	-42	32	1
76	41	38	1
77	2	41	1
78	-8	43	1
79	4	-10	2
80	9	-43	2
81	-39	-25	1

82	29	-39	3
83	28	4	2
84	28	-40	1
85	14	-1	3
86	27	-27	2
87	3	14	3
88	-30	-28	2
89	-13	-24	2
90	-15	-2	1
91	-49	50	3
92	24	11	3
93	-7	30	1
94	-21	27	3
95	18	-15	3
96	10	17	3
97	-42	42	2
98	-38	-50	2
99	-28	41	1
100	29	41	2