

Table S1. Parameters of urban electrified transportation networks.

Node	Bus	Node	Bus	Node	Bus
1	1	12	12	23	4
2	2	13	13	24	9
3	3	14	14	25	11
4	6	15	15	26	25
5	24	16	16	27	26
6	19	17	29	28	10
7	20	18	28	29	8
8	21	19	5	30	7
9	22	20	23	31	-
10	30	21	18	32	-
11	17	22	27	33	-

Table S2. Capacity of the road in the different periods.

Time	τ_t	Time	τ_t
00:00—07:00	0.2	14:00—17:00	0.3
07:00—09:00	0.5	17:00—19:00	0.5
09:00—12:00	0.3	19:00—23:00	0.3
12:00—14:00	0.4	23:00—24:00	0.2

Table S3. Length of the roads.

Roads	Length/km	Roads	Length/km	Roads	Length/ km
(1,2)	10.2	(9,11)	10.1	(18,27)	9.7
(1,4)	10.4	(10,11)	9.0	(19,20)	10.0
(2,3)	10.3	(10,21)	10.1	(19,24)	10.4
(2,5)	10.5	(11,22)	10.2	(19,28)	8.8
(2,6)	10.6	(12,13)	10.3	(20,21)	9.1
(3,4)	10.4	(12,16)	10.6	(20,25)	10.5
(3,7)	10.7	(12,17)	10.7	(20,29)	8.9
(4,8)	10.8	(13,14)	10.4	(21,22)	10.2
(4,9)	9.9	(13,15)	10.5	(21,25)	10.5
(5,6)	10.6	(14,15)	9.5	(22,30)	11.0
(5,23)	10.3	(14,28)	9.7	(23,24)	10.4
(6,7)	9.7	(15,16)	8.6	(24,25)	9.5
(6,24)	9.4	(15,28)	8.8	(25,26)	9.6
(7,8)	10.8	(16,17)	10.7	(27,28)	9.8
(7,25)	9.5	(16,29)	8.9	(28,29)	8.9
(8,10)	10.0	(17,30)	11.0	(29,30)	11.0
(8,26)	9.6	(18,19)	8.9	-	-
(9,10)	9.9	(18,23)	10.3	-	-