

Supplementary Materials:

Table S1. the consumer and prosumer data used in the study.

No.	Pole index	Prosumer code	Connection phase	Generation, kWh																							
				h01	h02	h03	h04	h05	h06	h07	h08	h09	h10	h11	h12	h13	h14	h15	h16	h17	h18	h19	h20	h21	h22	h23	h24
1	18	12	c	0	0	0	0	0	1.071	1.214	1.372	1.379	1.484	1.52	1.513	1.534	1.517	1.425	1.225	1.094	1.041	0	0	0	0	0	0
2	27	28	a	0	0	0	0	0	0.67	0.71	0.786	0.864	0.989	1.115	1.169	1.315	1.099	0.998	0.847	0.784	0.597	0	0	0	0	0	0
3	37	44	c	0	0	0	0	0	0.787	0.928	1.095	1.11	1.213	1.25	1.245	1.271	1.247	1.154	0.944	0.801	0.746	0	0	0	0	0	0
4	39	47	c	0	0	0	0	0	0.728	0.876	1.082	1.146	1.214	1.275	1.213	1.288	1.268	1.164	0.959	0.768	0.702	0	0	0	0	0	0
5	56	77	a	0	0	0	0	0	1.458	1.608	1.795	1.775	1.891	1.923	1.881	1.942	1.901	1.784	1.547	1.425	1.367	0	0	0	0	0	0
6	63	83	b	0	0	0	0	0	0.083	0.173	0.335	0.527	0.578	0.62	0.638	0.661	0.585	0.521	0.305	0.165	0.103	0	0	0	0	0	0
7	119	94	b	0	0	0	0	0	0.988	1.121	1.307	1.365	1.426	1.481	1.425	1.492	1.474	1.381	1.196	1.025	0.965	0	0	0	0	0	0
8	85	107	a	0	0	0	0	0	1.357	1.536	1.647	1.689	1.781	1.806	1.773	1.835	1.825	1.636	1.448	1.339	1.286	0	0	0	0	0	0