

**Table S1. The values adopted in the parameter analysis (Figure S1 and S2)**

Up-v3	Up-v2	Up-v1	v0	Down-v1	Down-v2	Down-v3
0.99	0.98	0.95	$P_{PJM}=0.9$	0.5	0.2	0.1
0.9	0.5	0.2	$P_{PLM}=0.1$	0.05	0.02	0.01
0.9	0.5	0.2	$P_{AAF}=0.1$	0.05	0.02	0.01
0.95	0.9	0.5	$P_{AAD}=0.2$	0.1	0.05	0.02
0.95	0.9	0.5	$P_{PLR}=0.2$	0.1	0.05	0.02
0.1	0.05	0.02	$P_{PBB}=0.01$	0.005	0.002	0.001
0.2	0.1	0.05	$P_{NF}=0.02$	0.01	0.005	0.002
0.5	0.2	0.1	$P_{ND}=0.05$	0.02	0.01	0.005
0.01	0.005	0.002	$P_{NDE}=0.001$	$5 \times 10^{-4}$	$2 \times 10^{-4}$	$1 \times 10^{-4}$
$1 \times 10^{-4}$	$5 \times 10^{-5}$	$2 \times 10^{-5}$	$P_{BB}=1 \times 10^{-5}$	$5 \times 10^{-6}$	$2 \times 10^{-6}$	$1 \times 10^{-6}$
0.001	$5 \times 10^{-4}$	$2 \times 10^{-4}$	$P_{FP}=1 \times 10^{-4}$	$5 \times 10^{-5}$	$2 \times 10^{-5}$	$1 \times 10^{-5}$
0.98	0.95	0.9	$P_{SP}=0.5$	0.2	0.1	0.05
0.99	0.98	0.95	$P_{AT}=0.9$	0.5	0.2	0.1
0.98	0.95	0.9	$P_{TL}=0.5$	0.2	0.1	0.05
$1 \times 10^{-5}$	$5 \times 10^{-6}$	$2 \times 10^{-6}$	$P_{RL}=1 \times 10^{-6}$	$5 \times 10^{-7}$	$2 \times 10^{-7}$	$1 \times 10^{-7}$
0.95	0.9	0.5	$P_{AJM}=0.2$	0.1	0.05	0.02
0.01	0.005	0.002	$P_{ALM}=0.001$	$5 \times 10^{-4}$	$2 \times 10^{-4}$	$1 \times 10^{-4}$
0.2	0.1	0.05	$P_{AF}=0.02$	0.01	0.005	0.002
0.1	0.05	0.02	$P_{AD}=0.01$	0.005	0.002	0.001
0.9	0.5	0.2	$F_{DW}=0.1$	0.05	0.02	0.01
0.99	0.98	0.95	$P_{APP}=0.9$	0.5	0.2	0.1
0.98	0.95	0.9	$P_{NPP}=0.5$	0.2	0.1	0.05
0.99	0.98	0.95	$P_{AAPF}=0.9$	0.5	0.2	0.1
0.99	0.98	0.95	$P_{MV}=0.9$	0.5	0.2	0.1
200	100	50	$F_{DO}=20$	10	5	2
0.01	0.005	0.002	$P_{CF}=0.001$	$5 \times 10^{-4}$	$2 \times 10^{-4}$	$1 \times 10^{-4}$
0.5	0.2	0.1	$P_{CD}=0.05$	0.02	0.01	0.005
$2 \times 10^{-3}$	$1 \times 10^{-3}$	$5 \times 10^{-4}$	$P_{CB}=2 \times 10^{-4}$	$1 \times 10^{-4}$	$5 \times 10^{-5}$	$2 \times 10^{-5}$
0.9	0.5	0.2	$P_{MC}=0.1$	0.05	0.02	0.01
0.9	0.5	0.2	$P_{MF}=0.1$	0.05	0.02	0.01

Note: The upper portion of the probabilities (above the dashed line) is for Figure S1 and the lower portion is for Figure S2. “v0” means the default value; “Up-v1”, “Up-v2” and “Up-v3” means the values adopted at the three turning steps (one after another; see red arrows in the figures) for the case of parameter-turning-up; “Down-v1”, “Down-v2” and “Down-v3” means the values adopted at the three turning steps for the case of parameter-turning-down.