B. Parameters for the case study

Table B.1. Parameter values (per quarter hour of period length)

Parameter	Value [p.u.]	Parameter	Value [p.u.]
$\lambda_{mn,t}$	0.189,0.236, 0.21,0.21[W/m°C]	$(p_{n,t}^2)^{\min}$	0,25 [kPa ²]
$\eta^{ ext{GC}}$	0,85	$(p_{n,t}^2)^{\max}$	4 [kPa ²]
η_{j}^{e}	0,4	$(p_{n,t}^2)^{reference}$	1 [kPa ²]
η_j^h	0,38	$P_{j,t}^{CHP, \mathrm{min}}$	0
$\eta_k^{ ext{P2G}}$	0,75	$P_{j,t}^{CHP,\max}$	1
$ au^a$	10 [°C]	$P_{nm}^{ m max}$	0,5 p.u.
$ au_{mn,t}^{ ext{in/out,min}}$	30 [°C]	$Q_g^{ m GS,min}$	0
$ au_{mn,t}^{ ext{in/out,max}}$	80 [°C]	$Q_{ m g}^{ m GS,max}$	7,7
c_p	4,64668e-6 p.u.h/kgK	$Q_k^{ ext{P2G,min}}$	0
c_k	1,3	$Q_k^{ ext{P2G,max}}$	0,13
CR	1,4	Q _s ST,in/out,min	0
$E^{ m GC}$	0,99	Q _s ST,in/out,max	0,13
$H_{j}^{\mathit{CHP},\min}$	0	Reactance	0.1577 p.u.
$H_j^{CHP, \max}$	1	RLD_{j}^{CHP}	9 p.u./h
$H_h^{HS,in/out, ext{min}}$	0	RLU_j^{CHP}	9 p.u./h
$H_h^{HS,in/out,\max}$	0,26	S_{nm}^{\max}	5
HS_h^{0}	1,3	P _{base}	1 MW
HS_h^{\min}	0,26	ST_s^0	1,95
HS_h^{max}	2,34	ST _s ^{min}	0,26 [p.u.h]
K^{GC}	0,0854	ST_s^{\max}	3,9 [p.u.h]
$L_{mn}(L_{12}, L_{23}, L_{65}, L_{54})$	271.3,235.4, 177.3, 102.8 [m]	T_s	530 °R
$m_{mn,t}^{\min}$	1 [kg/s]	Z _a	0,95
$m_{mn,t}^{ ext{max}}$	3 [kg/s]	$Z_{nm}(Z_{12}, Z_{23}, Z_{34}, Z_{35})$	44.8085;59.7447; 29.8723;44.80 [kPa ² /(pu) ²]