

Table S1. The explanation of relevant variables.

Variable	Unit	Variable	Unit
$CIC_{t,biomass}$	kW	$IR_{biomass}$	kW
$NIC_{t,biomass}$	kW	$ICC_{biomass}$	kW
$DIC_{t,biomass}$	kW	$LS_{biomass}$	kW
R	CNY	FIT	CNY/kW
$PG_{biomass}$	kW	TC	CNY

Table S2. The key variable's value.

Variable	value	Variable	value
FIT	0.75 NY/kW [NEA]	$CIC_{initial,biomass}$	8.68*10 ⁶ kW [China Electricity Council]
Carbon price	80 CNY/ton [Zhang et al.,2022]		0.997kg/kWh [Zhang et al., 2020]
Investment cost per unit	10470CNY/kW [Zhang et al., 2016]		