

TABLE V
PARAMETERS OF GBS

GB2 0 2 0.9

TABLE VI
PARAMETERS OF ESS

Types	$E_i^{\text{ESS,min}}$ (kW)	$E_i^{\text{ESS,max}}$ (kW)	$P_i^{\text{ESS,max}}$ (kW/h)	α_c^{ESS}	α_d^{ESS}
ESS1	100	1000	250	0.9	1.1
ESS2	50	1000	200	0.9	1.1

TABLE VII
PARAMETERS OF GSS

Types	$E_i^{\text{GSS,min}}$ (Kcf)	$E_i^{\text{GSS,max}}$ (Kcf)	$G_i^{\text{GSS,max}}$ (Kcf/h)	α_c^{GSS}	α_d^{GSS}
GSS1	0.1	4	1	0.9	1.11
GSS2	0.05	3	1	0.9	1.11

REFERENCES

- [1] H. Gao, J. Liu, and L. Wang, "Robust coordinated optimization of active and reactive power in active distribution systems," *IEEE Trans. Smart Grid.*, vol. 9, no. 5, pp. 4436-4447, Sept 2018.
- [2] C. Liu, Shahidehpour M, Y. Fu et al., "Security-constrained unit commitment with natural gas transmission constraints," *IEEE Trans. Power Syst.*, vol. 24, no. 3, pp. 1523-1536, August 2009.