

表 C1 33 节点配电网中风电机组参数

Tab. C1 Parameters of wind turbines in 33-bus distribution network

风机	P_r/kW	$v_{in}/(\text{m/s})$	$v_r/(\text{m/s})$	$v_{out}/(\text{m/s})$
WT1	400	1.0	6.5	8.0
WT2	500	1.0	9.5	12.0
WT3	400	0.5	6.0	8.0

表 C2 33 节点配电网中光伏电池参数

Tab. C2 Parameters of photovoltaic cells in 33-bus distribution network

光伏机组	年最大光照强度/ (kW/m^2)	A/m^2	$\eta/\%$
PV1	1.0	2100	15
PV2	1.0	2400	14

表 C3 123 节点配电网中风电机组参数

Tab. C3 Parameters of wind turbines in 123-bus distribution network

风机	接入相	P_r/kW	$v_{in}/(\text{m/s})$	$v_r/(\text{m/s})$	$v_{out}/(\text{m/s})$
WT1	c 相	250	1.0	6.5	8.0
WT2	c 相	300	1.0	9.5	12.0
WT3	b 相	200	0.5	6.0	8.0
WT4	a 相	250	1.0	6.0	9.5
WT5	a 相	300	1.0	7.5	11.0

表 C4 123 节点配电网中光伏电池参数

Tab. C4 Parameters of photovoltaic cells in 123-bus distribution network

光伏 机组	接入相	年最大光照强度/ (kW/m^2)	A/m^2	$\eta/\%$
PV1	c 相	1.0	1400	15
PV2	b 相	1.0	1800	14
PV3	a 相	1.0	1500	13
PV4	a 相	1.0	1200	15
PV5	c 相	1.0	1500	14

表 C5 33 节点配电网中可再生能源机组模糊参数

Tab. C5 Fuzzy parameters of renewable energy generations in 33-bus distribution network

可再生能源机组	模糊参数	模糊数
WT1	ζ_c	(2.150, 2.825, 3.681)
	ζ_k	(1.338, 1.570, 1.757)
WT2	ζ_c	(2.703, 3.850, 4.542)
	ζ_k	(1.612, 1.935, 2.388)
WT3	ζ_c	(2.954, 3.250, 3.504)
	ζ_k	(1.995, 2.075, 2.253)
PV1	ζ_a	(0.453, 1.015, 1.233)
	ζ_b	(0.859, 1.320, 1.782)

PV2	ζ_a	(0.679, 0.875, 1.005)
	ζ_b	(1.280, 1.425, 1.575)

表 C6 123 节点配电网中可再生能源机组模糊参数

Tab. C6 Fuzzy parameters of renewable energy generations in 123-bus distribution network

可再生能源 机组	模糊参数	模糊数
WT1	ζ_c	(2.150, 2.825, 3.681)
	ζ_k	(1.338, 1.540, 1.580, 1.757)
WT2	ζ_c	(2.703, 3.850, 4.542)
	ζ_k	(1.612, 1.860, 1.980, 2.388)
WT3	ζ_c	(2.954, 3.250, 3.504)
	ζ_k	(1.995, 2.000, 2.100, 2.253)
WT4	ζ_c	(2.660, 2.895, 2.925, 3.229)
	ζ_k	(1.574, 1.790, 1.994)
WT5	ζ_c	(2.659, 2.950, 3.100, 3.408)
	ζ_k	(1.473, 1.620, 1.821)
PV1	ζ_a	(0.453, 1.015, 1.233)
	ζ_b	(0.859, 1.320, 1.782)
PV2	ζ_a	(0.679, 0.850, 0.950, 1.005)
	ζ_b	(1.280, 1.425, 1.575)
PV3	ζ_a	(0.741, 0.820, 1.029)
	ζ_b	(0.938, 1.165, 1.616)
PV4	ζ_a	(0.890, 1.020, 1.137)
	ζ_b	(1.036, 1.145, 1.195, 1.265)
PV5	ζ_a	(0.784, 0.935, 1.060, 1.253)
	ζ_b	(1.103, 1.380, 1.420, 1.606)

表 C7 123 节点配电网中负荷模糊参数

Tab. C7 Fuzzy parameters of loads in 123-bus distribution network

负荷区域	模糊参数	模糊数
A	ξ_μ	(0.987, 1, 1.014)
	ξ_σ	(0.006, 0.015, 0.024)
B	ξ_μ	(0.973, 1, 1.027)
	ξ_σ	(0.005, 0.010, .0026)
C	ξ_μ	(0.977, 1, 1.029)
	ξ_σ	(0.005, 0.014, 0.021)
D	ξ_μ	(0.982, 1, 1.016)
	ξ_σ	(0.007, 0.016, 0.028)
E	ξ_μ	(0.988, 1, 1.019)
	ξ_σ	(0.003, 0.016, 0.023)

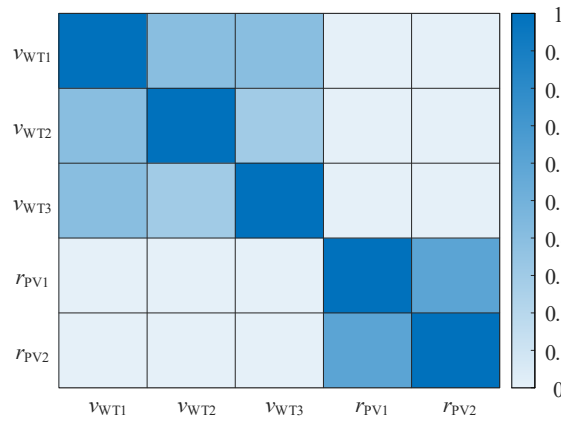


图 C1 33 节点配电网中风速、光照强度的线性相关系数

Fig. C1 Linear correlation coefficient for wind speed and light intensity in 33-bus distribution network

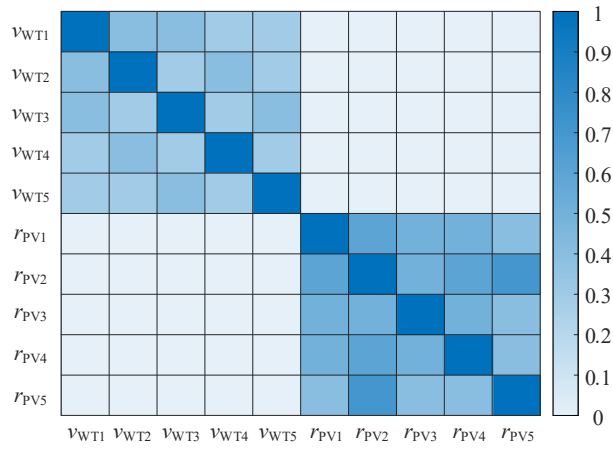


图 C2 123 节点配电网中风速、光照强度的线性相关系数

Fig. C2 Linear correlation coefficient for wind speed and light intensity in 123-bus distribution network