

Electronic supplementary materials

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Economic analysis and impact assessment of electricity supply and demand-side emission reductions in China under carbon neutrality goals

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Table S1 Electricity generation and demand of China in 2020 (10⁸ kWh) [1–4].

Region	Province	Generation	Demand
Low Generation	Guangxi	1939	2028.82
High Demand	Liaoning	2309	2423.40
	Anhui	2785	2427.50
	Hubei	3037	2144.18
	Henan	2791	3391.86
	Shanxi	3395	2341.73
	Yunan	3674	2025.14
High Generation	Hebei	2946	3933.92
High Demand	Hubei	3037	2144.18
	Fujian	2606	2483.00
	Xinjiang	4052	3098.91
	Zhejiang	3521	4829.77
	Inner Mongolia	5703	3900.49
	Jiangsu	5074	6373.71
	Guangdong	5048	6926.12
	Shandong	5781	6939.85
High Generation	Shaanxi	2426	1740.901
Low Demand	Guizhou	2327	1586.07
	Hunan	1552	1929.28
	Jiangxi	1477	1626.82

Low Generation Low Demand	Gansu	1787	1375.70
	Shanghai	864	1575.96
	Chongqing	837	1186.48
	Heilongjiang	1111	1014.40
	Ningxia	1768	1038.20
	Beijing	456	1139.97
	Jilin	990	805.40
	Tianjin	699	874.59
	Hainan	348	362.58
	Qinghai	948	742.01
	Tibet	87	82.45

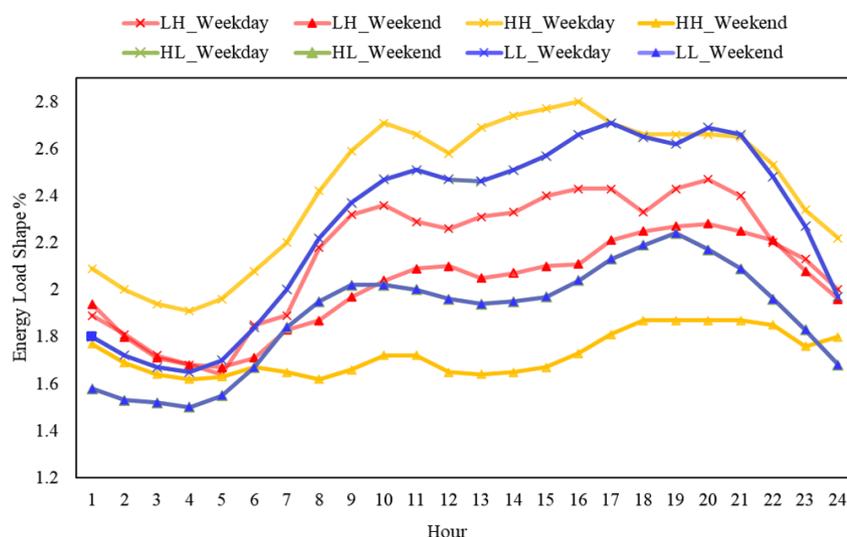


Fig. S1 Energy load shape (% of annual energy) for four regions on weekdays and weekends

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