

Supplementary Materials

Table S1. Description of the indicators.

Indicator	Summary description
Engel's coefficient	The proportion of food expenditure in households to total consumption expenditure.
Domestic electricity use per capita	Annual average electricity daily consumption per person, measured in kilowatt-hours.
Daily domestic water use per capita	Annual average water daily consumption per person.
Area of parkland per capita	= Area of green space in the park / number of population of the province.
CO ₂ emissions per capita	Annual average CO ₂ emission per person.
Public transportation passengers per capita	= The total number of passengers transported by various modes of transport/ number of population of the province.
GDP per capita	--
Urbanization rate	= Urban permanent population / total population
Disposable income per capita	The sum of final consumption expenditure and savings
Share of non-fossil energy in primary energy consumption	Non-fossil energy: Hydro, wind, solar, nuclear and biomass energy
Share of renewable energy in total electricity generation	Renewable energy: Hydro, wind, solar and biomass energy
Water consumption per 10,000 yuan GDP	--
Energy consumption per 10,000 yuan GDP	--
Energy consumption elasticity coefficient	= Average annual growth rate of energy consumption / average annual growth rate of the national economy
Construction land area per capita	= Area of land used for urban construction / number of permanent residents within the range
Value added of tertiary sector as a share of GDP	The added value of the tertiary industry accounts for the proportion of GDP
Patents per 10,000 people	--
R&D share of GDP	R&D : Research and Experimental Development budget
PM _{2.5} concentration	--
Proportion of good waters	Class I, II, III water monitoring sections accounted for the proportion of all monitoring sections. (The classification standard refers to <i>Environmental quality standards for surface water</i> (GB 3838-2002))
Forest cover	--

Wetland protection rate	--
Ecological quality index	Data from: <i>Report on the State of the Ecology and Environment in China</i> (https://www.mee.gov.cn/hjzl/sthjzk/).
Greening coverage of built-up area	= Green area / total area
Centralized sewage treatment rate	--
Recycled water utilization rate	--
Non-hazardous treatment rate of domestic waste	--
The comprehensive utilization rate of general industrial solid waste	--
Energy saving and environmental protection guarantee capacity	= Energy conservation and environmental protection expenditure / local general public budget expenditure
CO ₂ emissions per unit of GDP	--
NO _x emissions per unit of GDP	--
SO ₂ emissions per unit of GDP	--
Number of buses for 10,000 people	--
Length of public transportation routes for 10,000 people	= Length of all public transport routes / total population × 10 ⁴