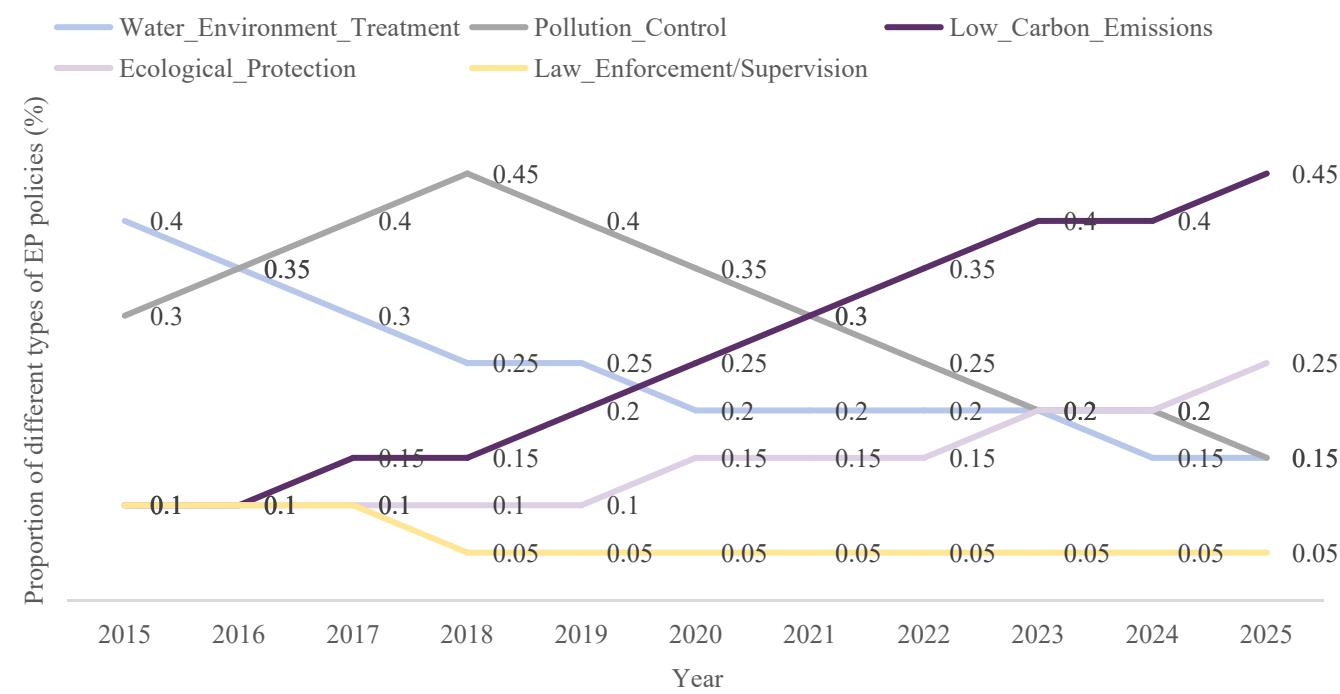# More detailed table/chart data
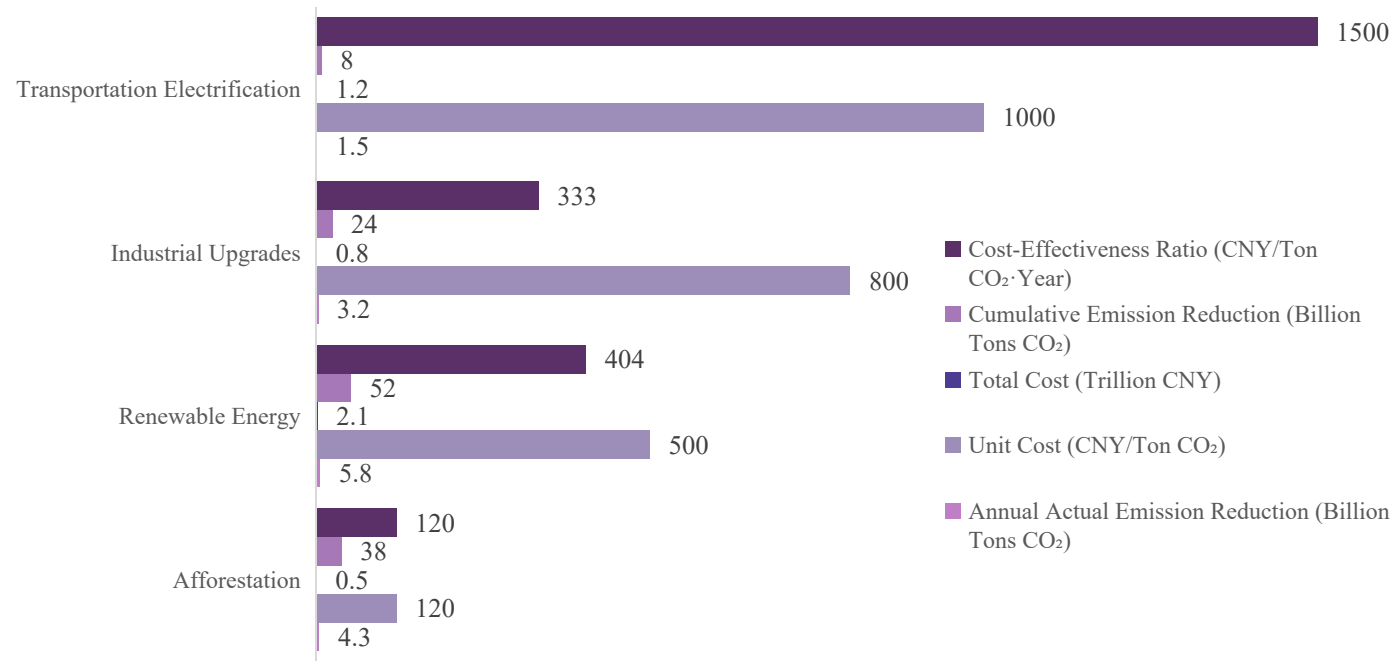
Figure-1 Proportion of different types of China's EP policies (2015-2025)

Mann-Kendall Trend Test Result generated by Python

Mann_Kendall_Test(trend='increasing', h=np.True_,

p=np.float64(6.151089035277835e-05),

z=np.float64(4.006938426723769),

Tau=np.float64(0.9454545454545454), s=np.float64(52.0),

var_s=np.float64(162.0),

slope=np.float64(0.03888888888888889),
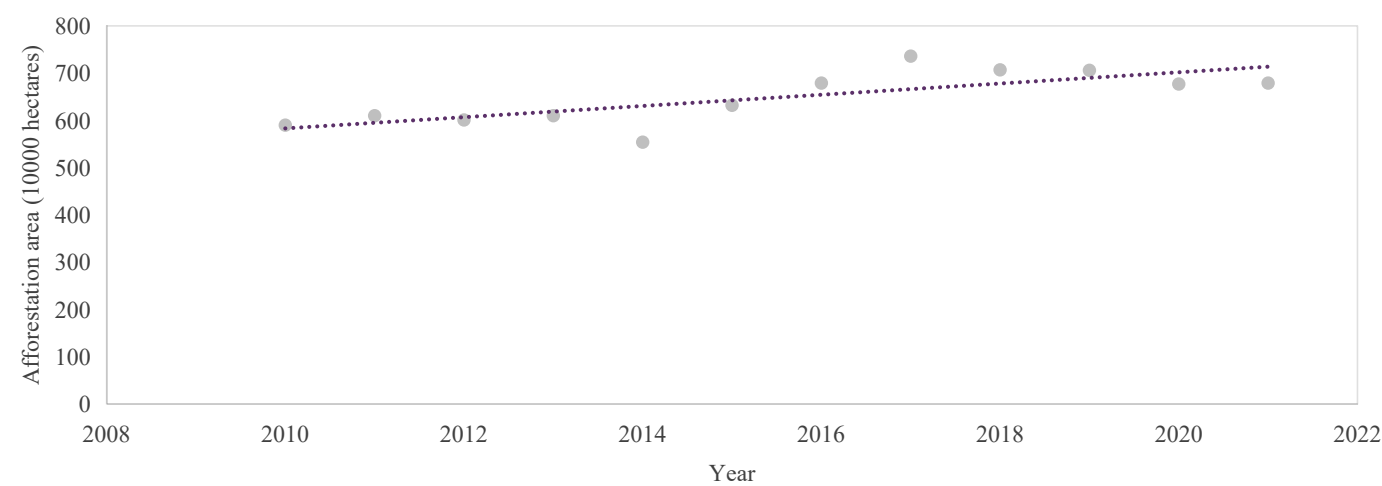
intercept=np.float64(0.05555555555555555))

Figure-2 Comparison Table of Emission Reduction Effects and Costs of China's Major Low Carbon Policy Measures (2013-2023)

Transportation Electrification
- 1500
- 8
- 1.2
- 1000
- 1.5

Industrial Upgrades
- 333
- 24
- 0.8
- 800
- 3.2

Renewable Energy
- 404
- 52
- 2.1
- 500
- 5.8

Afforestation
- 120
- 38
- 0.5
- 120
- 4.3

Legend:
- Cost-Effectiveness Ratio (CNY/Ton $CO_2 \cdot$Year)
- Cumulative Emission Reduction (Billion Tons CO_2)
- Total Cost (Trillion CNY)
- Unit Cost (CNY/Ton CO_2)
- Annual Actual Emission Reduction (Billion Tons CO_2)

TOPSIS Test Result generated by Python

Measure	D_{i+}	D_{i-}	C_i
Afforestation	**0.099**	**0.293**	**0.748**
Renewable Energy	0.270	0.099	0.268
Industrial Upgrades	0.426	0.225	0.346
Transportation Electrification	0.426	0.000	0.000

Figure-3 Changes in annual afforestation area in China (2010-2021)

Country/Region	Project/Cooperation Content	Area (hectares)	Partners/Implementing Entities	Data Sources
Africa	China-Africa "Green Great Wall" Initiative	1000000	China and African Union	China National Forestry and Grassland Administration (2021), AU Green Wall Progress Report
Kazakhstan	China-Kazakhstan Border Afforestation	2000	Chinese Academy of Sciences and Kazakh institutions	Northwest Institute of Eco-Environment and Resources, CAS (2021)
Mongolia	China-Mongolia Desertification Control	6600	China Green Foundation and partners	China Green Foundation Annual Report (2023), Mongolia Ministry of Environment
UAE	Dubai Desert Greening Pilot Project	1000	Chinese firms and Dubai Government	The National (UAE, 2023), Qingdao Seawater Rice R&D Center Agreement
Southeast Asia	Laos/Cambodia Economic Forest Plantation	300000	Chinese agricultural enterprises	World Bank Report on SE Asia Forestry (2020), China Ministry of Commerce
Brazil	Eucalyptus Plantations by Chinese Firms	200000	Chinese paper companies	Brazilian Tree Industry Report (2020), APP Sustainability Report

Mann-Kendall Trend Test Result generated by SPSS

β_1 = 11.87 (million hectares/year),

p = 0.0041,

r = 0.76

Figure-4 Newly added Global Green Area Contributions (2019)

China 42%

Others 58%