

Climate Actions in Chinese Cities

Institute for Global Decarbonization Progress

Liu Xueye

2023.8.29

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Support Cities

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Support Cities

About iGDP 关于我们



In 2014 iGDP initiated by Energy Foundation China
能源基金会发起



Secretariat of China's Green and Low-Carbon Development Think Tank Partnership
绿色低碳发展智库伙伴秘书处



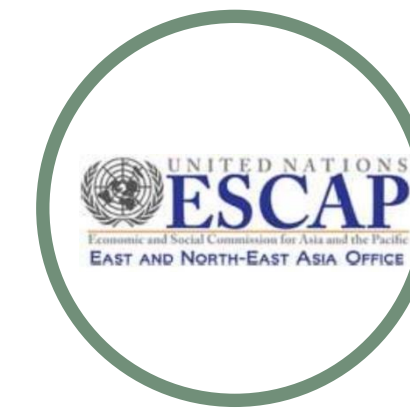
Member of China's Green Finance Association Experts Committee
绿金委理事单位



Supports the Climate and Energy Research Center of the Institute of Finance and Sustainability
发起并支持北京绿色金融与可持续发展研究院工作



Hosts the Climate Change and Energy Transition Program of the Institute of Energy at Peking University
北大能源院气候变化与能源转型项目战略合作机构



Member of the North-East Asian Subregional Programme for Environmental Cooperation's Low-Carbon City Platform
联合国亚太经社理事会东北亚低碳城市平台专家机构



Global Methane Initiative member organization
全球甲烷倡议会员单位

Green Development Think Tank Partnership

绿色低碳发展智库伙伴

由中国能源研究会能源系统工程专业委员会组织举办的中国领先的低碳研究机构 and 能源、环境、经济学家之间的交流平台，于2014年6月全国低碳日发起。iGDP是绿色低碳发展智库伙伴的秘书处。服务于伙伴机构和专家间的交流分享和研究合作，专注梳理国内外绿色低碳最佳研究工具和成果，搭建务实的技术和决策支撑体系，以促进地方绿色转型，树立中国低碳发展国际影响。由杜祥琬院士、何建坤教授、刘燕华教授、周大地教授任高级顾问。现有 84 名智库伙伴专家和 49 家伙伴机构。

- Launched in June 2014
- Communication and collaboration
- 84 Experts and 49 Organizations





参会嘉宾

潘家华, 中国社会科学院学部委员、生态文明研究智库常务副理事长
 张希良, 中国能源研究会能源系统工程专业委员会主任委员
 廖翠萍, 中科院广州能源研究所研究员
 孙振清, 天津科技大学教授
 李强, 重庆国际投资咨询集团有限公司低碳处处长
 庄贵阳, 中国社科院生态文明研究所副所长
 康艳兵, 国家发改委能源研究所能源可持续发展研究中心主任
 刘滨, 清华大学能源经济研究所副教授



Activities 活动内容

- Annual conference 年会
- Seminars 系列研讨会
- Joint research 联合研究
- Communications 整合传播

“疫情后新形势下的省市达峰行动”系列研讨会之一

提升省市碳达峰雄心

致辞
 何建坤, 清华大学教授、原常务副校长、国家气候专家委员会副主任、GDTP高级顾问

城市报告
 深圳-唐杰, 深圳市政府原副市长、哈尔滨工业大学(深圳)经管学院教授
 青岛-刘赞, 青岛市生态环境局总量控制处副处长
 武汉-罗巍, 武汉市生态环境局大气环境处处长

专家点评
 张希良, 中国能源研究会能源系统工程专业委员会主任委员、清华大学教授
 姜克隽, 国家发改委能源研究所研究员
 柴麒敏, 国家应对气候变化战略研究和国际合作中心战略规划部主任

会议时间: 2020.10.9 14:00-16:30
 腾讯会议 ID: 519822956



Cities Actions: Tracking and Evaluation

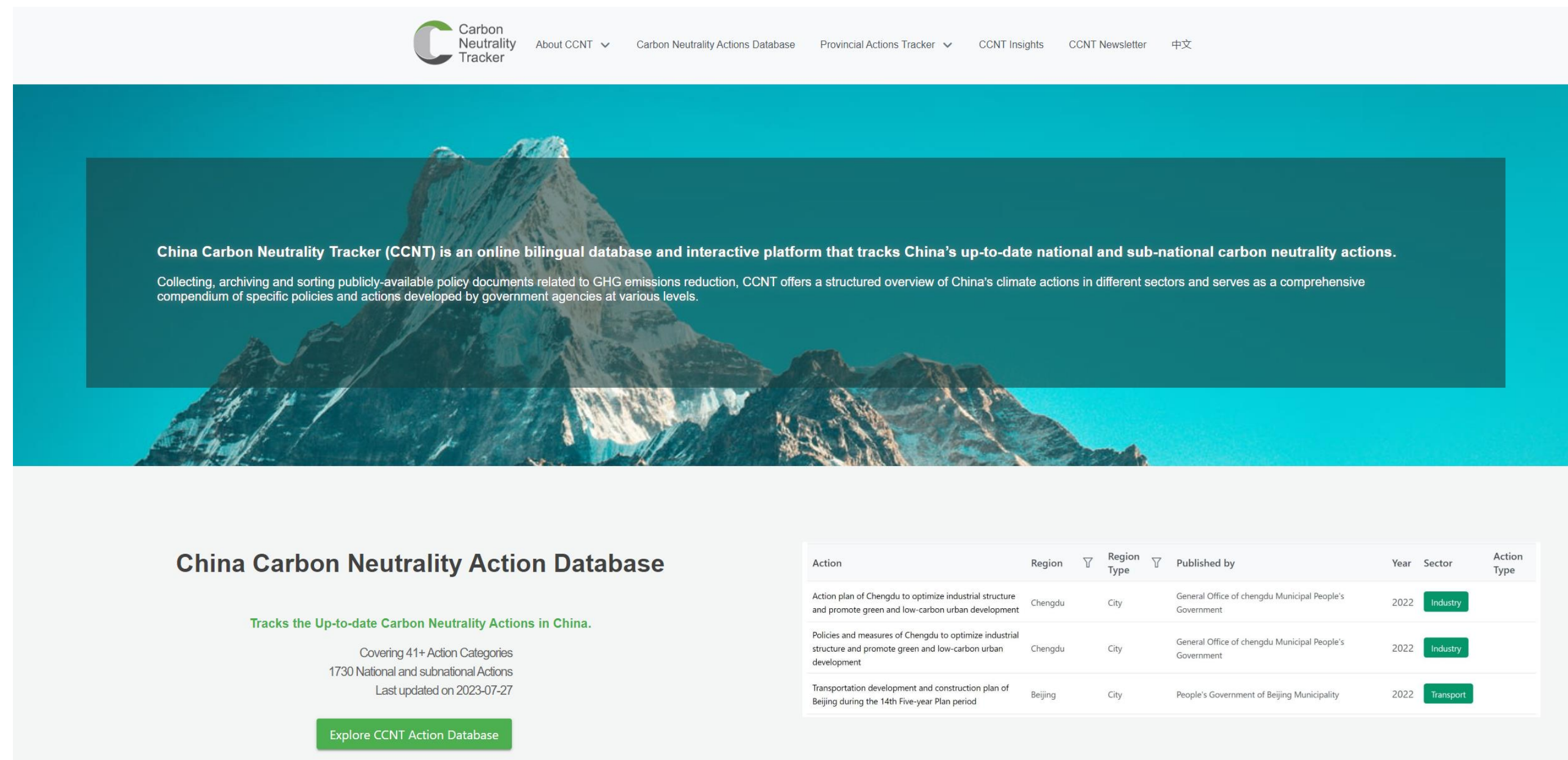
地方行动：追踪与评估

双碳目标进展追踪和评估

Tracking and evaluating progress toward carbon peaking and neutrality

LOGIC 1.0 → LOGIC 2.0

CCNT



The screenshot shows the CCNT website with a navigation bar, a hero section with a mountain background, and a table of carbon neutrality actions.

China Carbon Neutrality Tracker (CCNT) is an online bilingual database and interactive platform that tracks China's up-to-date national and sub-national carbon neutrality actions.
Collecting, archiving and sorting publicly-available policy documents related to GHG emissions reduction, CCNT offers a structured overview of China's climate actions in different sectors and serves as a comprehensive compendium of specific policies and actions developed by government agencies at various levels.

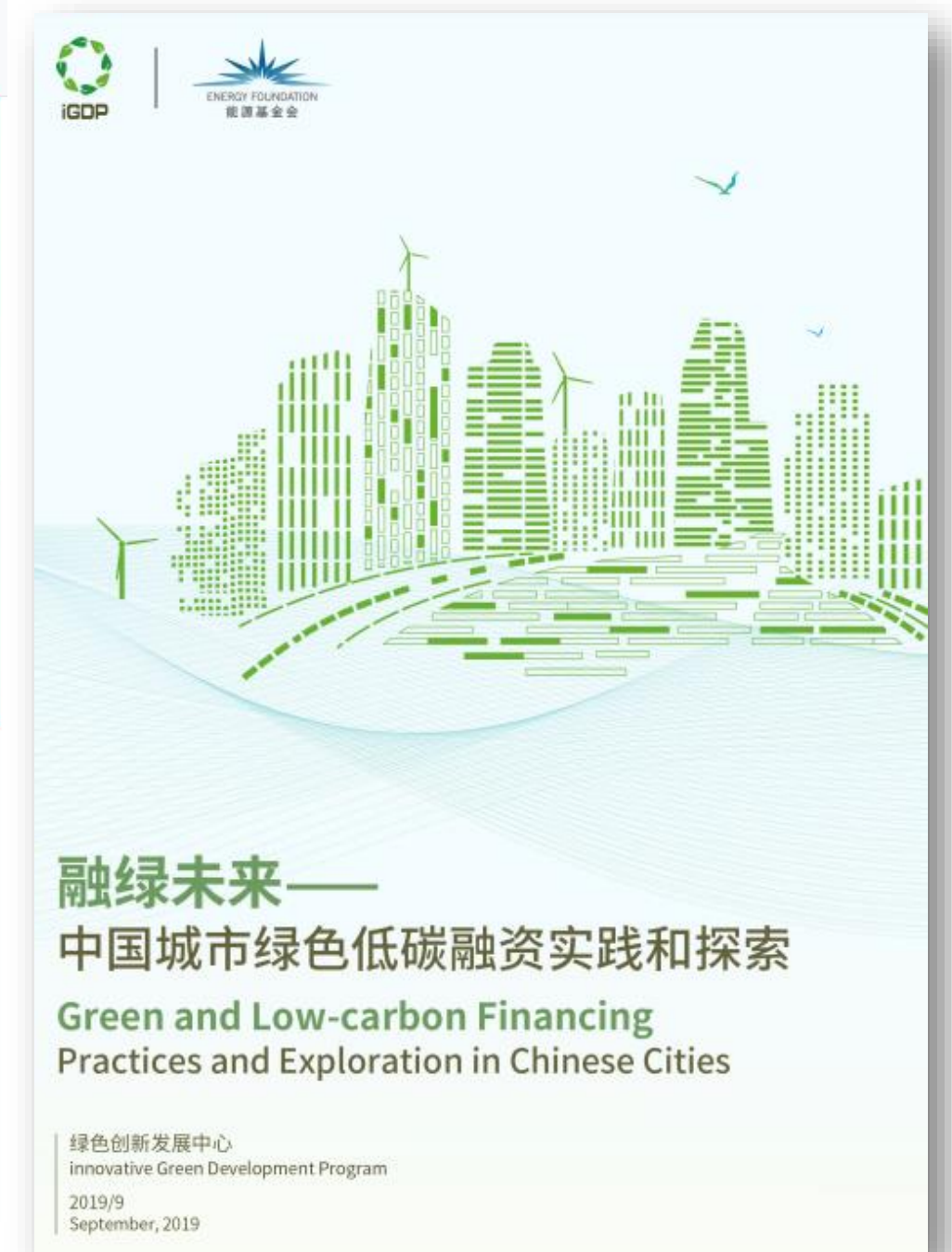
China Carbon Neutrality Action Database

Tracks the Up-to-date Carbon Neutrality Actions in China.

Covering 41+ Action Categories
1730 National and subnational Actions
Last updated on 2023-07-27

[Explore CCNT Action Database](#)

Action	Region	Region Type	Published by	Year	Sector	Action Type
Action plan of Chengdu to optimize industrial structure and promote green and low-carbon urban development	Chengdu	City	General Office of chengdu Municipal People's Government	2022	Industry	
Policies and measures of Chengdu to optimize industrial structure and promote green and low-carbon urban development	Chengdu	City	General Office of chengdu Municipal People's Government	2022	Industry	
Transportation development and construction plan of Beijing during the 14th Five-year Plan period	Beijing	City	People's Government of Beijing Municipality	2022	Transport	



The report cover features a stylized green cityscape with wind turbines and solar panels. The title is in Chinese and English.

融绿未来——中国城市绿色低碳融资实践和探索
Green and Low-carbon Financing Practices and Exploration in Chinese Cities

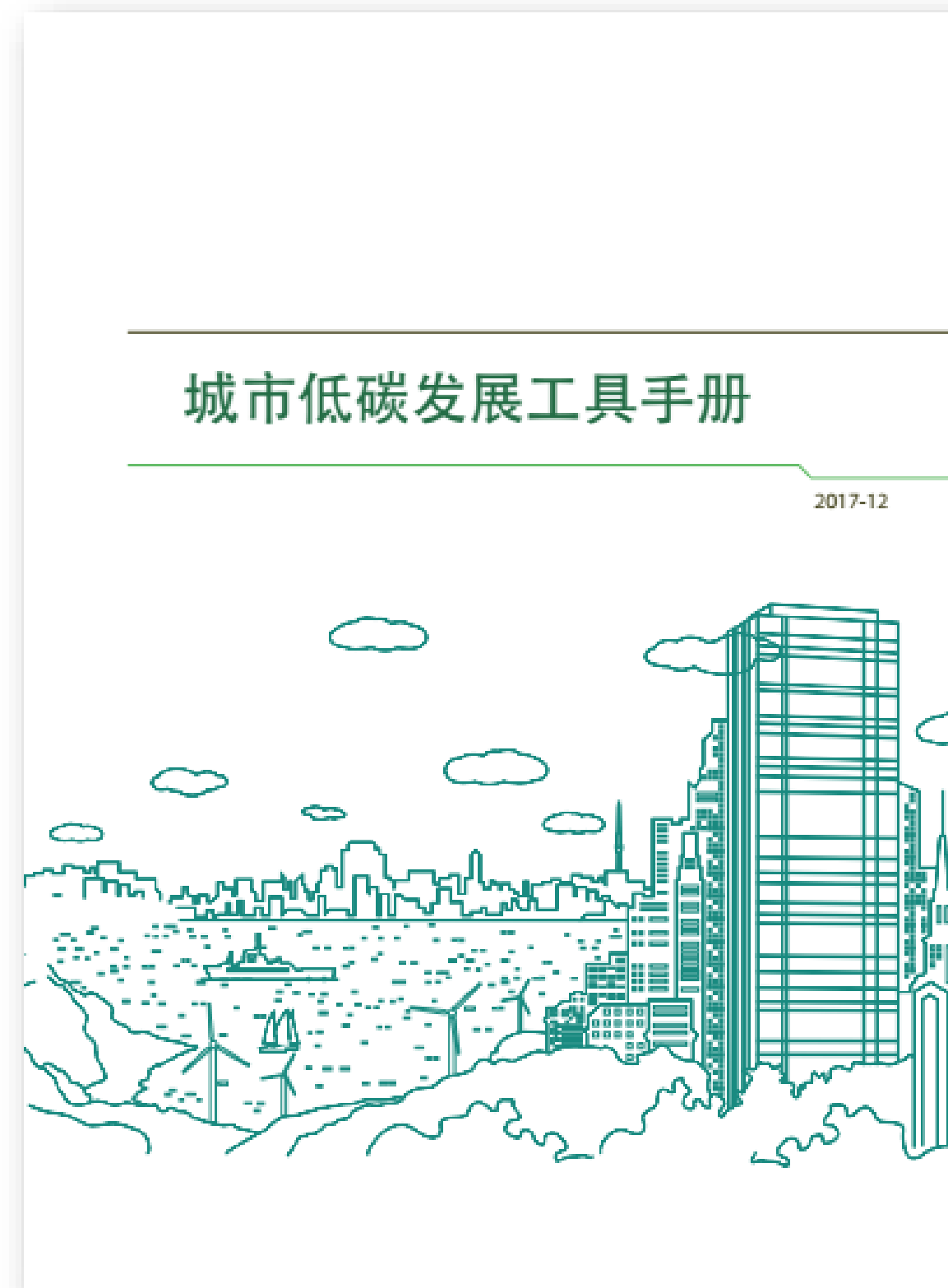
绿色创新发展中心
innovative Green Development Program
2019/9
September, 2019

Cities Actions: Planning & Tools

地方行动：规划与工具

助力地方设计和实施更具雄心的行动，筛选或开发适合地方的规划编制和政策研究工具

Developing locally appropriate planning and policy research tools; Assisting with local design and implementation of more ambitious actions

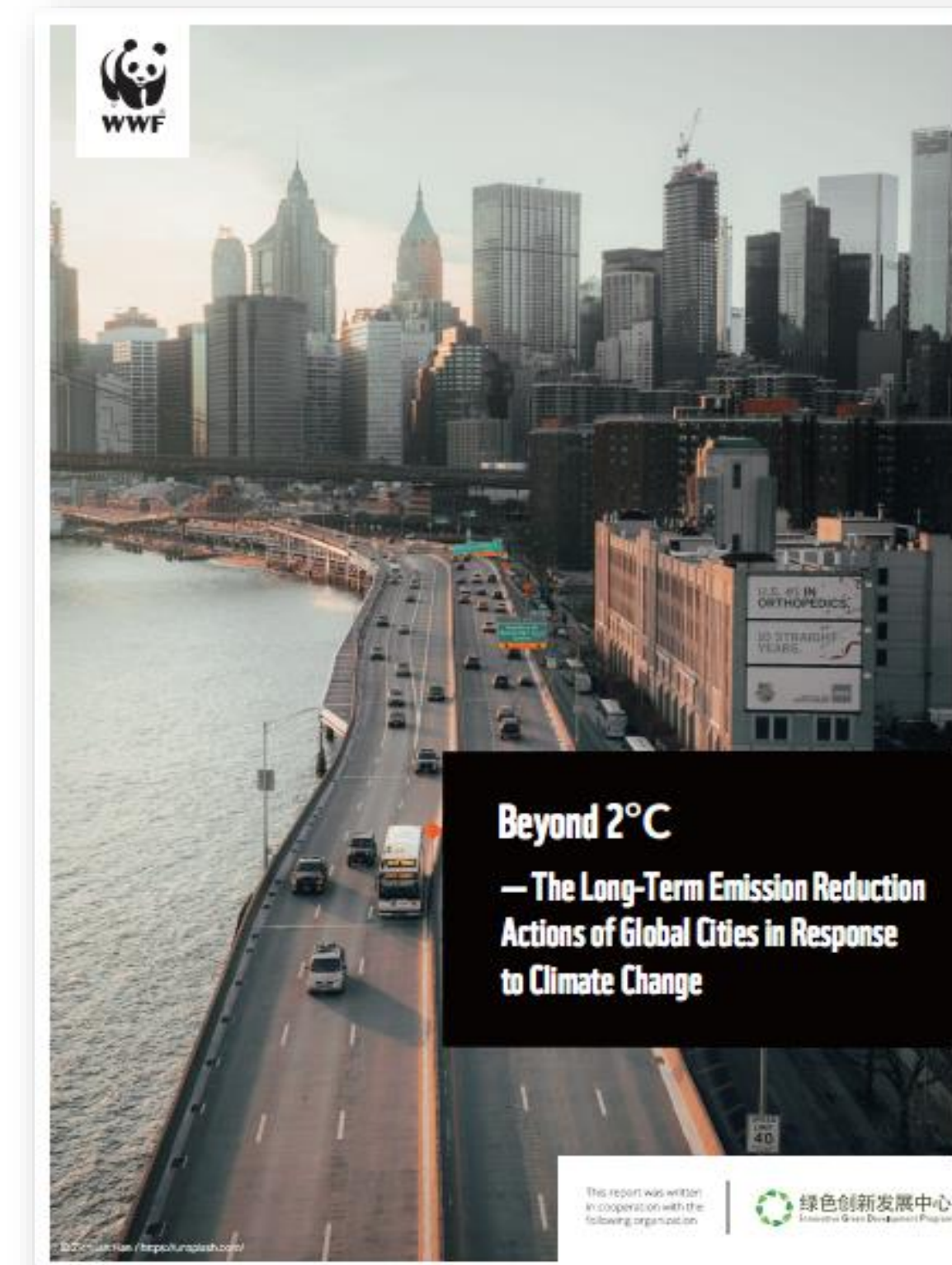


Cities Actions: Net-Zero Cities

地方行动: 零碳城市

助力研究城市层面气候规划和零碳行动

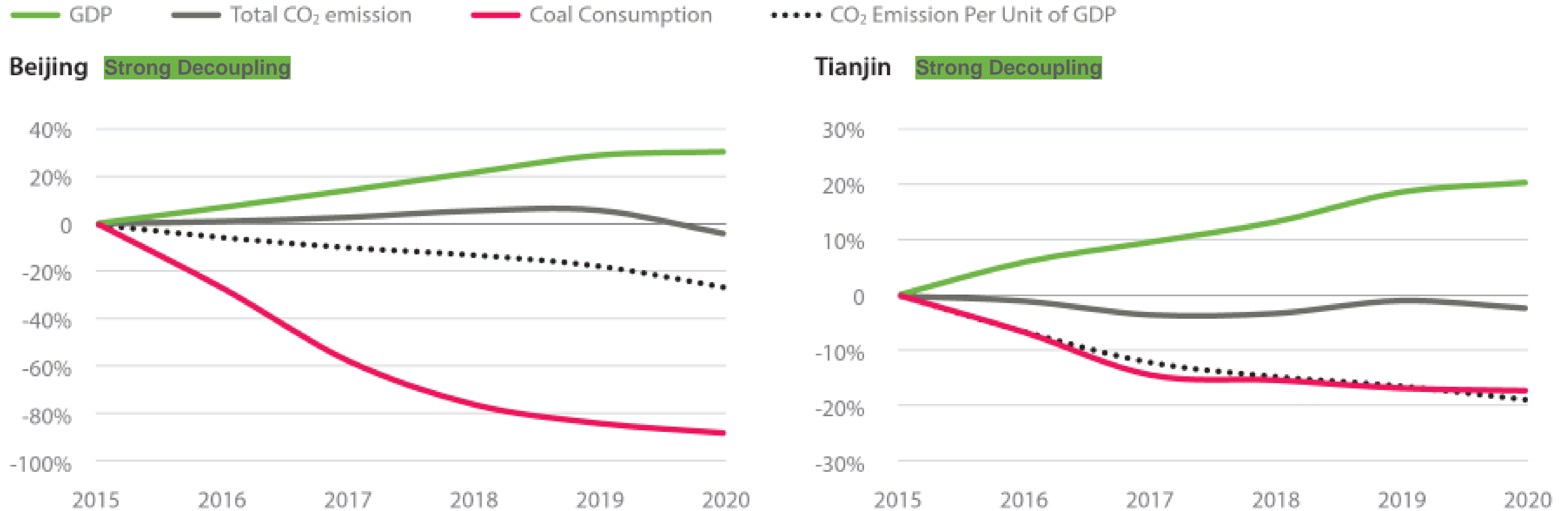
Developing locally appropriate planning and policy research tools;
Assisting with local design and implementation of more ambitious actions



02

Climate Actions in Chinese Cities

Decoupling of Economic Growth from Carbon Emissions

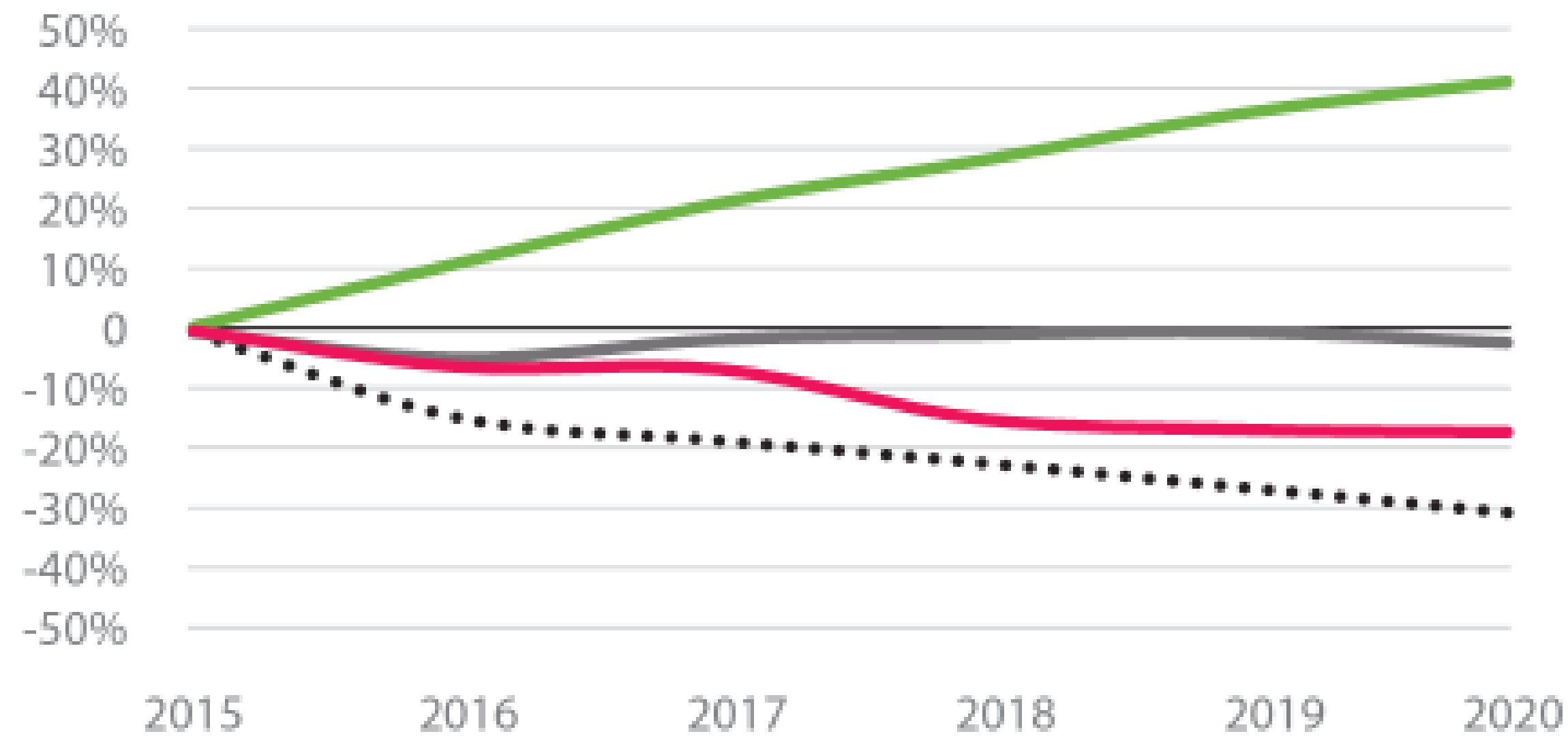


Source: CCNT team. (2022). CCNT Annual Report 2022: Closing the emissions gap through subnational climate actions in China. Beijing. innovative Green Development Program. China Carbon Neutrality Tracker (2022). Local government 14th 5-year planning and carbon emission peaking implementation plan.

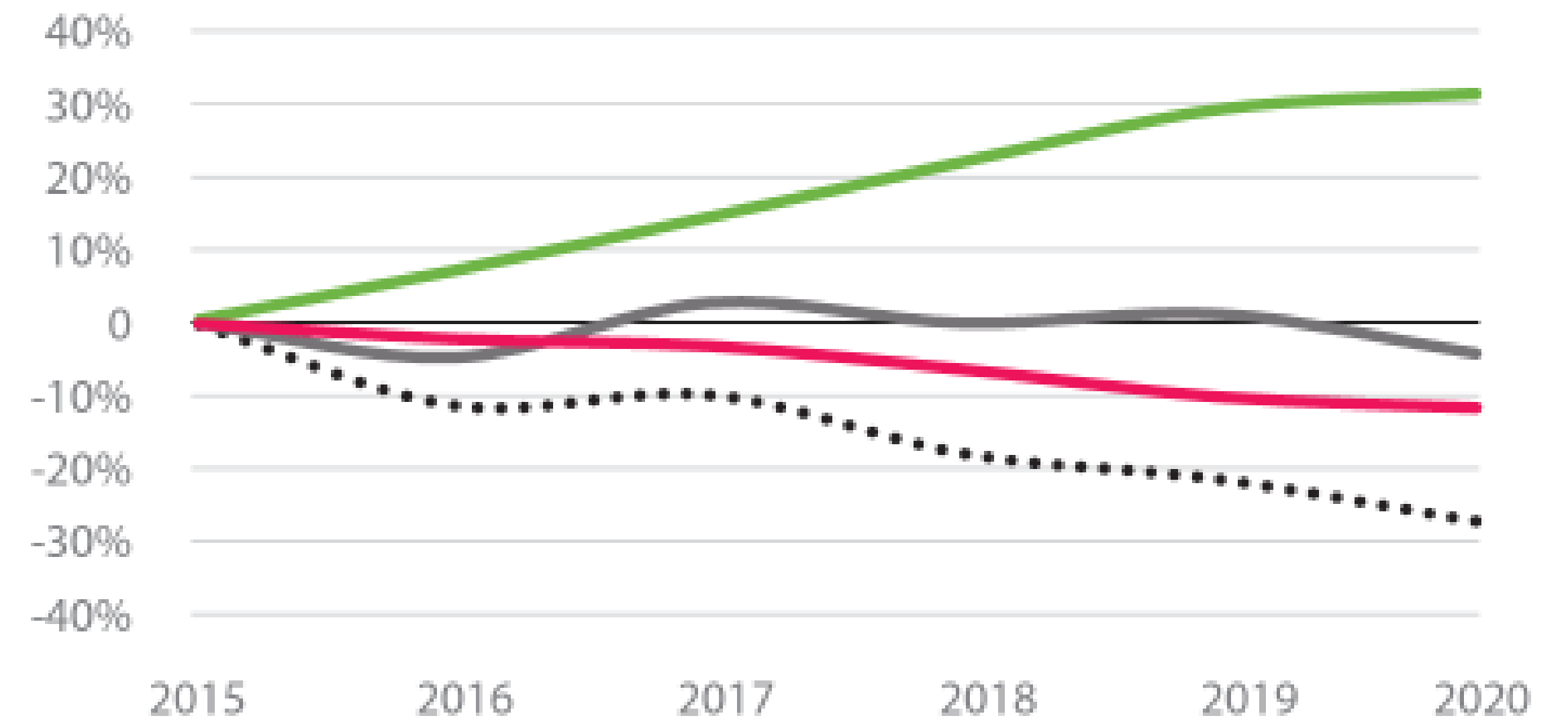
Decoupling of Economic Growth from Carbon Emissions

— GDP
 — Total CO₂ emission
 — Coal Consumption
 ⋯ CO₂ Emission Per Unit of GDP

Chongqing Strong Decoupling



Shanghai Strong Decoupling

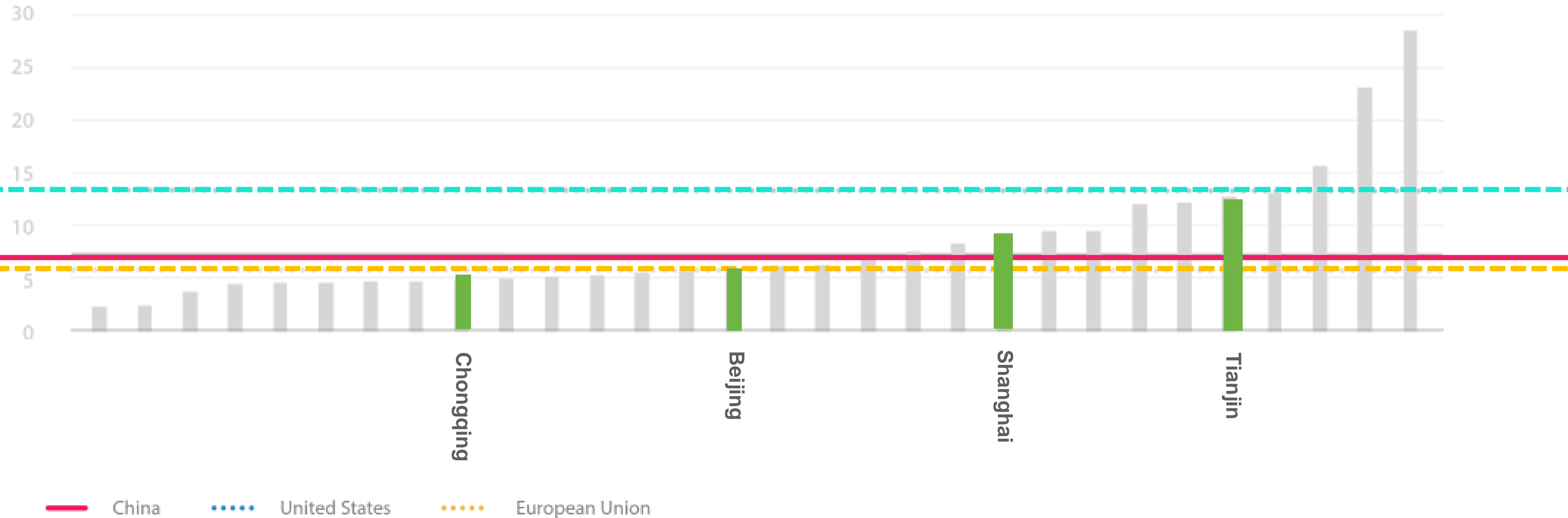


Source: CCNT team. (2022). CCNT Annual Report 2022: Closing the emissions gap through subnational climate actions in China. Beijing. innovative Green Development Program. China Carbon Neutrality Tracker (2022). Local government 14th 5-year planning and carbon emission peaking implementation plan.

Per Capita GDP Comparison (RMB/cap, 2020 price)

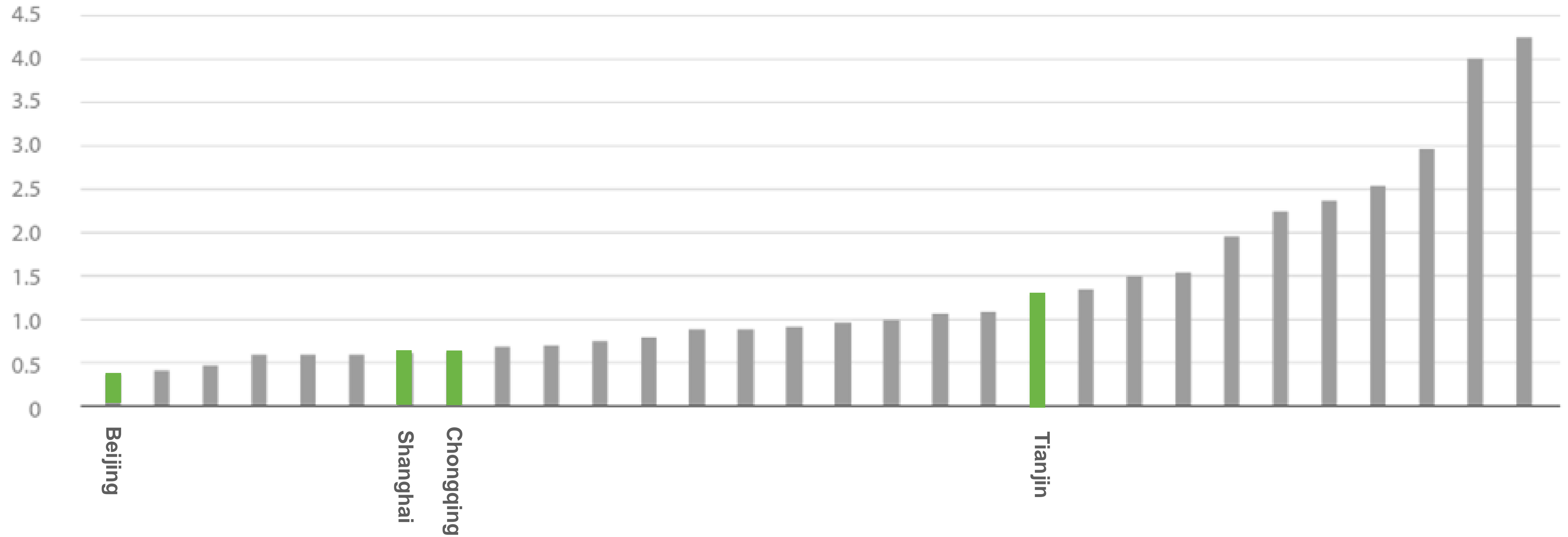


Per Capita CO2 Emission Comparison (tCO2/capita, 2020)



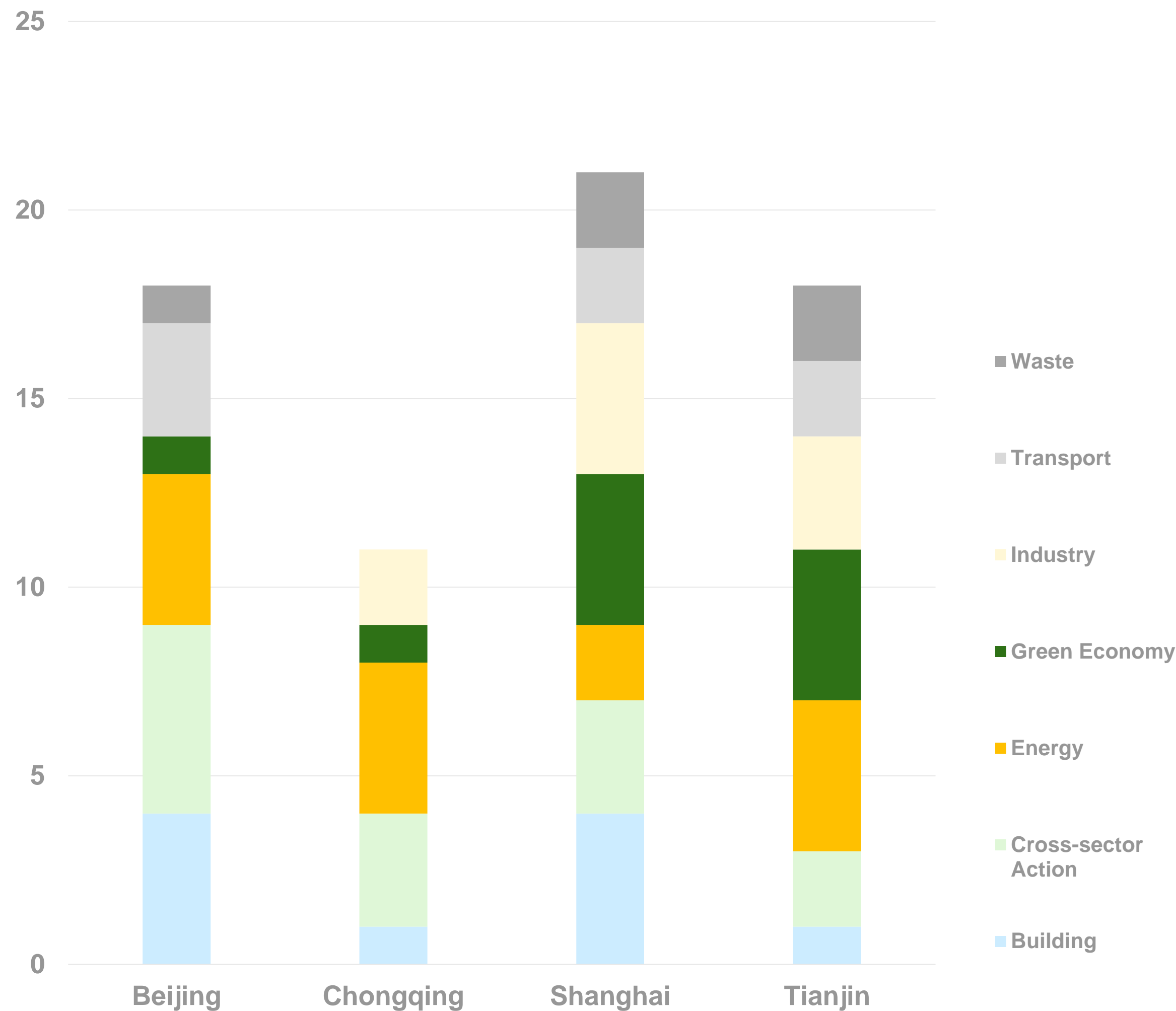
Source: CCNT team. (2022). CCNT Annual Report 2022: Closing the emissions gap through subnational climate actions in China. Beijing. innovative Green Development Program. China Carbon Neutrality Tracker (2022). Local government 14th 5-year planning and carbon emission peaking implementation plan.

Carbon Intensity Comparison (tCO₂/10,000 RMB, 2020)



Source: CCNT team. (2022). CCNT Annual Report 2022: Closing the emissions gap through subnational climate actions in China. Beijing. innovative Green Development Program. China Carbon Neutrality Tracker (2022). Local government 14th 5-year planning and carbon emission peaking implementation plan.

Chinese Cities Had Established Their Own 1+N Policy System



Action	Published by	Year	Sector	Action Type
Notice Regarding the Issuance of the Implementation Plan for Carbon Emissions Reduction and Sequestration in Agricultural and Rural Areas in Beijing	Beijing Municipal Bureau of Agriculture and Rural Affairs	2023	Agriculture	Carbon Sink
Action Plan for Renewable Energy Replacement in Beijing (2023-2025)	Beijing Carbon Peaking and Carbon Neutral Work Leading Group Office	2023	Energy	Renewable Energy
Implementation Rules for Model Project Management of Green Building Development Incentive Funds in Beijing (Trial Implementation)	Beijing Municipal Commission of Housing and Urban-Rural Development, Beijing Municipal Bureau of Finance	2023	Building	Ultra-low/Nearly-zero Energy Buildings
Implementation Views of Beijing City on Encouraging the High-quality Development of Photovoltaic Power	Beijing Municipal Commission of Development and Reform and other four departments	2023	Electricity	
Action Plan for Carbon Peaking in Beijing Municipal Government Enterprises	People's Government of Beijing City	2022	Cross-sector Action	
14th Five Year Green Civic Building Development Plan and Work Plan for Energy Saving and Carbon Reduction in Civic Buildings in Beijing City	Beijing Carbon Peaking and Carbon Neutral Work Leading Group Office	2022	Building	
Implementation Plan for Carbon Peaking in Beijing	Beijing Municipal People's Government	2022	Cross-sector Action	1 plus N Policy Framework
14th Five Year Development Plan for the Construction Industry in Beijing City	Beijing Municipal Commission of Housing and Urban-Rural Development	2022	Building	
Action Plan for the Reform and Opening-up Development of Green Finance in the "Two Regions" Construction	Beijing Local Financial Supervision Administration	2022	Green Economy	1 plus N Policy Framework

Source: CCNT team. (2022). CCNT Annual Report 2022: Closing the emissions gap through subnational climate actions in China. Beijing. innovative Green Development Program. China Carbon Neutrality Tracker (2022). Local government 14th 5-year planning and carbon emission peaking implementation plan.

Mage Cities Targets Surpass the National Requirements for 2025

Region	Energy Intensity Reduction Rate	Coal Consumption Share	Non-Fossil Fuel Consumption Share	Industrial Energy Intensity Reduction Rate	Carbon Emissions Intensity of Commercial Vehicles Per Unit of Transport Turnover	Area of New Ultra-low Energy Buildings and Nearly Zero Carbon Buildings (Million SQ)
Beijing	14%	1.2%	14%	12%	NA	5
Tianjin	15%	28%	12%	15%	5%	NA
Shanghai	15%	30%	20%	14%	10%	8
Chongqing	14%	40%	25%	15%	4%	0.3
China	14%	NA	20%	13.5%	9.5%	NA

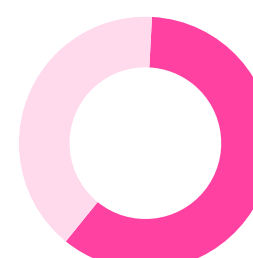
Source: CCNT team. (2022). CCNT Annual Report 2022: Closing the emissions gap through subnational climate actions in China. Beijing. innovative Green Development Program. China Carbon Neutrality Tracker (2022). Local government 14th 5-year planning and carbon emission peaking implementation plan.

03

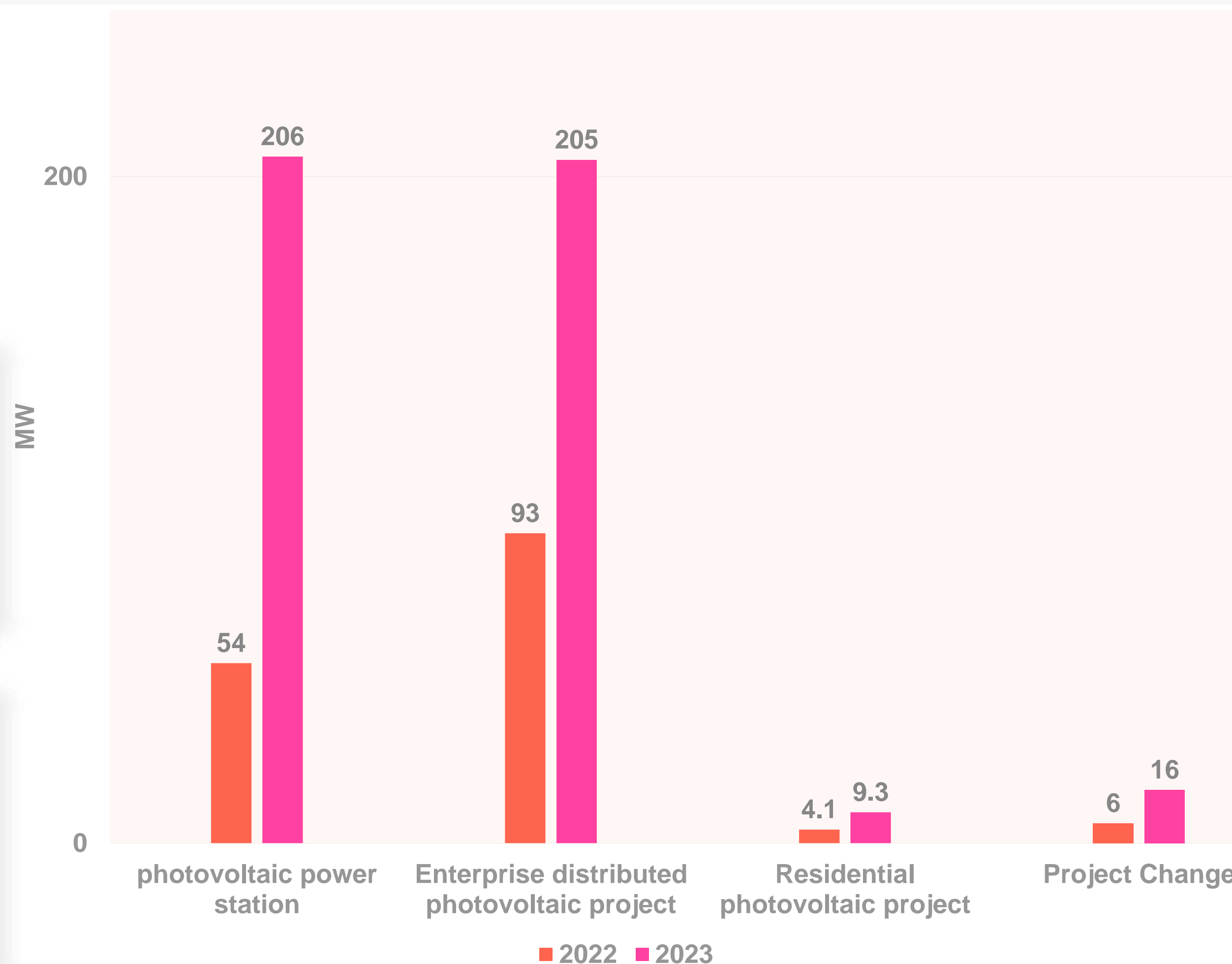
City Cases

Renewable Energy Development is Rewarded With Special Funds

Measures for Special Fund Support for Renewable Energy and New Energy Development of Shanghai Municipality (2020 Edition) (Shanghai Development and Reform Standards (2020) No. 7)

 Compared to 2022, photovoltaic installations will increase significantly in 2023

 An offshore wind power project was supported in 2023



World Biggest “Salt-Solar Complementary” Photovoltaic Project



1

An area of 13 million square meters

2

1.5 billion KWH of clean electricity every year + fishery products

3

Equivalent to 1.25 million tons of carbon dioxide emission reduction

4

The efficiency of power generation can be improved by 5-7%

Thank you!

www.igdp.cn