
iGDP BIENNIAL REPORT 2023-2024

**绿色创新发展研究院
双年报 2023-2024**

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FORREWORD

The past two years have marked a milestone in iGDP's journey. As part of the nationwide endeavor toward the dual carbon goals, we have remained true to our founding mission—contributing our expertise to a zero-carbon and sustainable future.

During this period, we have further established our role as a green and low-carbon non-profit think tank. We have deepened our research and released a series of high-quality public knowledge products. Our flagship product, the *China Carbon Neutrality Tracker (CCNT)*, has broadened its scope to include energy and climate policies as well as provincial emissions data, providing strong knowledge support for policymaking, industry development, and the general public. We also launched *The 30-Province Carbon Neutrality Pathways Tool*, which enables quantitative analysis for medium- and long-term policy design.

In addition, we have built platforms to promote green development awareness. *Climate Catalyst* and *Farewell Coal* have become dynamic public spaces for the latest international and domestic discussions on energy transition. We have also broadened our horizons, reflecting on the role of independent think tanks within the global climate efforts, while witnessing firsthand China's growing leadership and determination in addressing climate change.

The year 2024 marked iGDP's tenth anniversary—a milestone that coincided with a new phase in the zero-carbon transition. While social consensus around the dual carbon strategy is strengthening, challenges remain in policy implementation. The national carbon peaking goal is within reach, yet

the systemic tensions between carbon neutrality and development have not been fully resolved. Short-lived climate pollutants, such as methane, have also become new priorities in the fight against climate change.

At this new starting point, we recognize that turning the zero-carbon vision into reality hinges on action—and action depends on directing finance and policy resources toward areas with the greatest emissions reduction potential. As a think tank, we must take this as our mission: to identify more practical and actionable solutions, build stronger platforms for exchange, and promote more targeted measures. Through analysis, sharing, and dialogue, we aim to break down barriers to transition, achieve tangible emissions reduction milestones, and enhance climate ambition through integration.

To that end, we have undertaken a strategic reorganization. Over the next five years, iGDP will focus on four core areas: accelerating energy decarbonization in the power, industry, and household sectors; reducing non-CO₂ greenhouse gas emissions; tracking climate governance strategies; and analyzing green economic support policies; we will also leverage the *ACTION 2035 Subnational Climate Solution Centers Initiative* to accelerate local green transition, as well as strengthen the *Green and Low-Carbon Agri-Food Actors Platform (GAAP)*.

Our team has also grown, welcoming more experts into our ranks. We believe that diverse backgrounds and perspectives will inspire greater innovation and inject fresh vitality into iGDP's development.

In the past two years, we have pursued a “going global” strategy—engaging in exchanges and cooperation with international peers, sharing China's experiences while learning from global best practices. Climate change is a collective challenge—one that demands joint solutions, mutual trust, and sustained cooperation.

The path ahead is not without difficulty, but we remain resolute. With deeper research, a pragmatic approach, and a spirit of collaboration, iGDP will continue to drive global climate action—amplifying Chinese insight and leadership in the pursuit of a sustainable future for all.

Hu Min

Director and Co-founder of iGDP

ACHIEVEMENTS

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TWO YEARS IN REVIEW

By the Numbers

81

Conferences Hosted & Co-hosted

42

Invited Speeches at Conferences

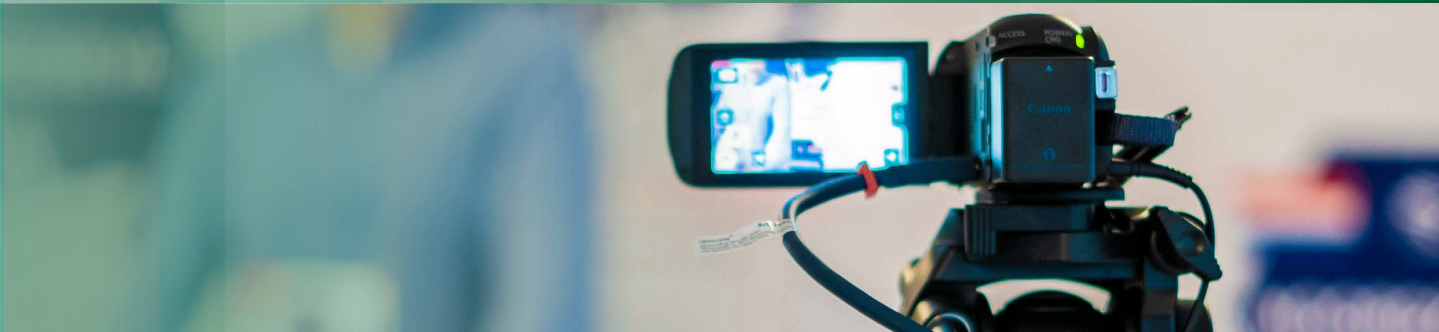


60

Original Articles

35

Media Interviews



25

Media Articles

12

Policy Briefs



19

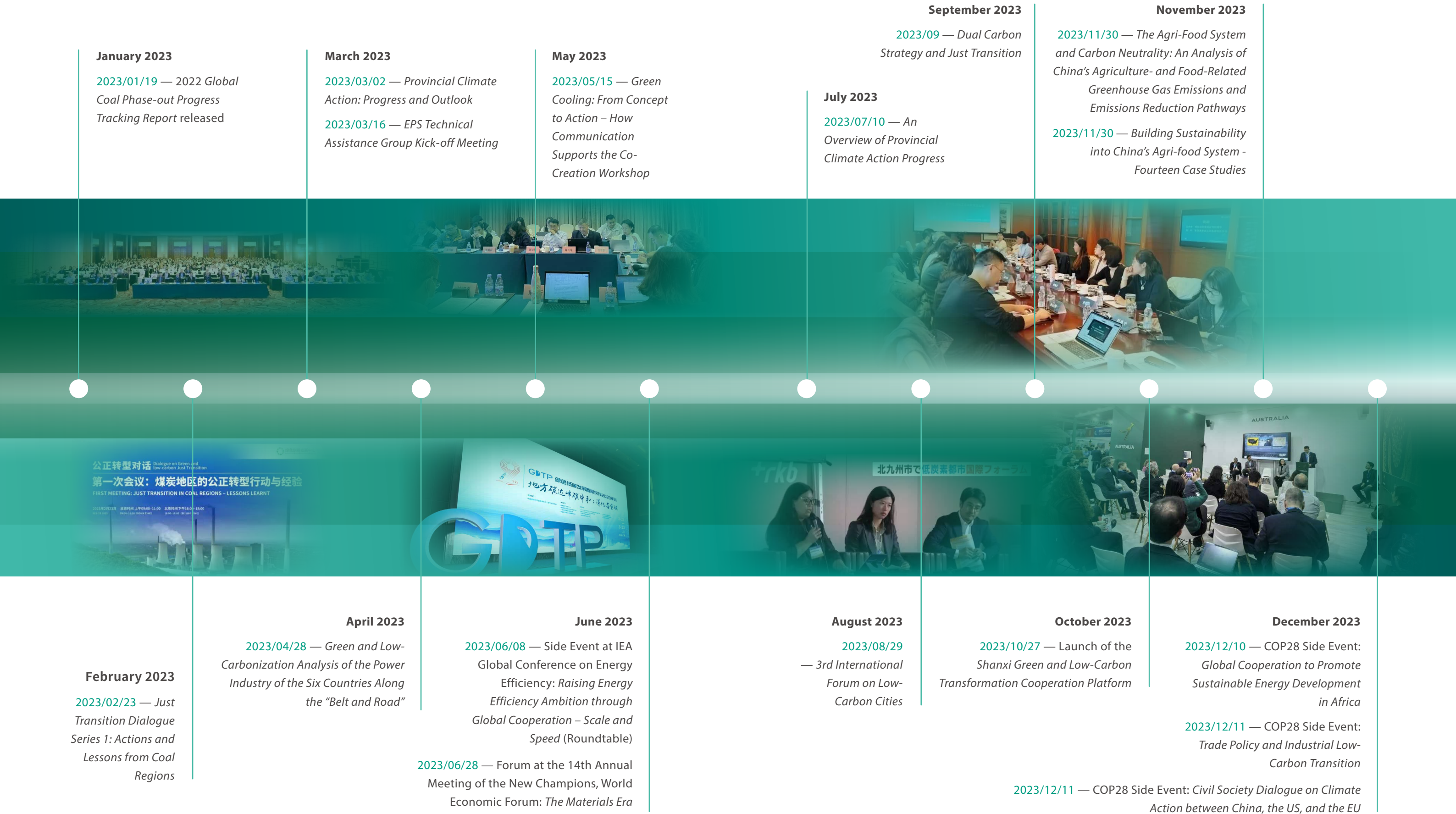
Reports

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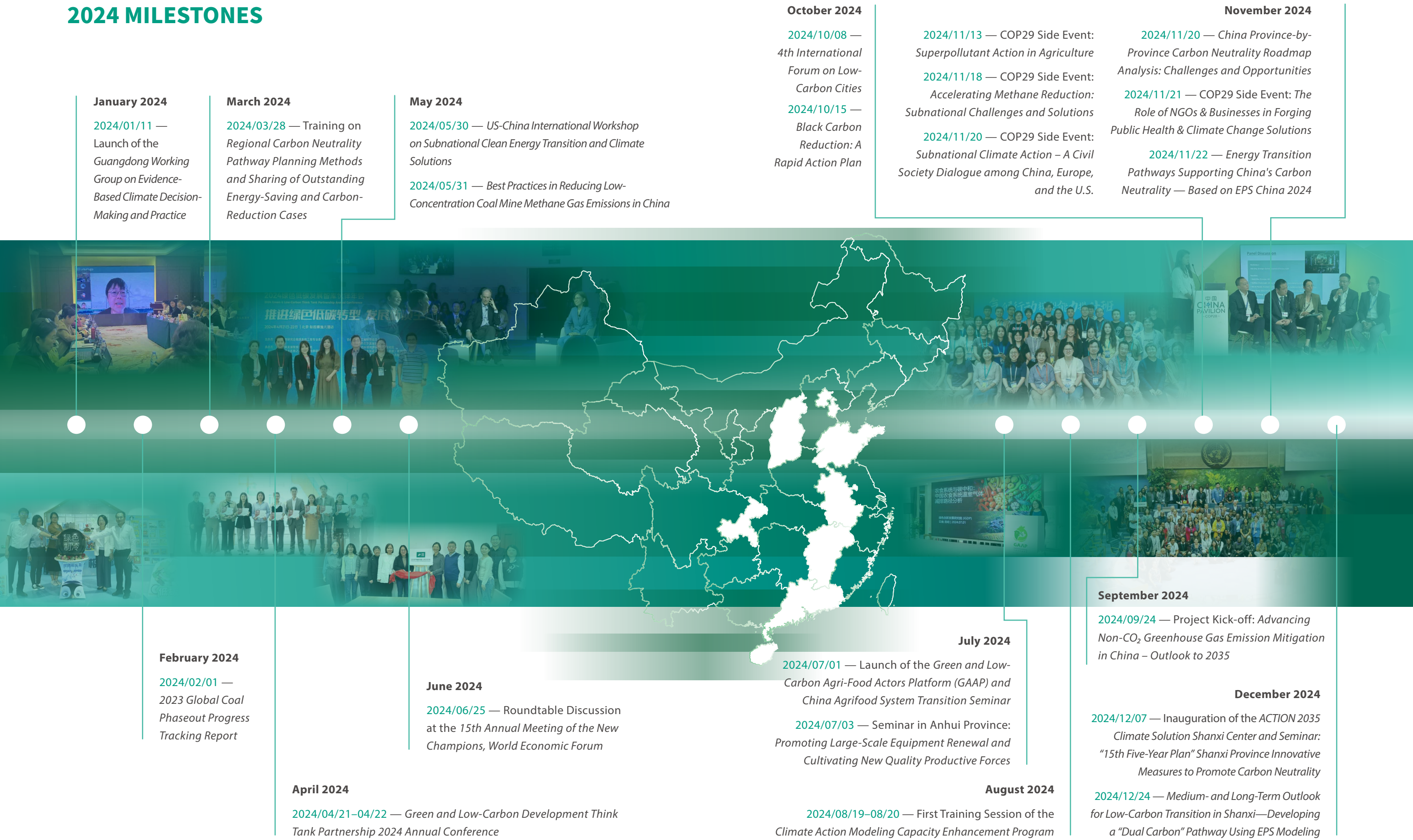
Authored Book



2023 MILESTONES



2024 MILESTONES



RESEARCH



ENERGY TRANSITION

Decarbonizing energy systems is pivotal for achieving sustainable development and carbon neutrality, requiring holistic transitions across the power, industry, building, and transport sectors. China and other emerging economies face a dual challenge: building modern energy systems that ensure access, equity, and economic growth, while also delivering a secure, efficient, and low-carbon energy transition. iGDP is committed to accelerating the transition to a zero-carbon energy system without compromising sustainable economic development or social equity.

Our key areas of focus include:

- **Energy System Analysis**

Utilizing quantitative modeling tools, we conduct research on carbon neutrality pathways at national and regional levels. Our work identifies key regions, critical sectors, and priority policies, as well as the investment requirements and the broader macroeconomic impacts—such as effects on GDP and employment—associated with these pathways.

- **Regional Green and Low-Carbon Transition**

Using the Low-Carbon & Green Index for Cities (LOGIC), we quantitatively track the impact of green policies across the economy and key sectors, compare regional progress, and identify optimal policy pathways.

- **Industrial Electrification & Zero-Carbon Transition**

We promote industrial process heat decarbonization and electrification by providing research support—through policy analysis, technology analysis, and case studies—for zero-carbon roadmaps in key industries.

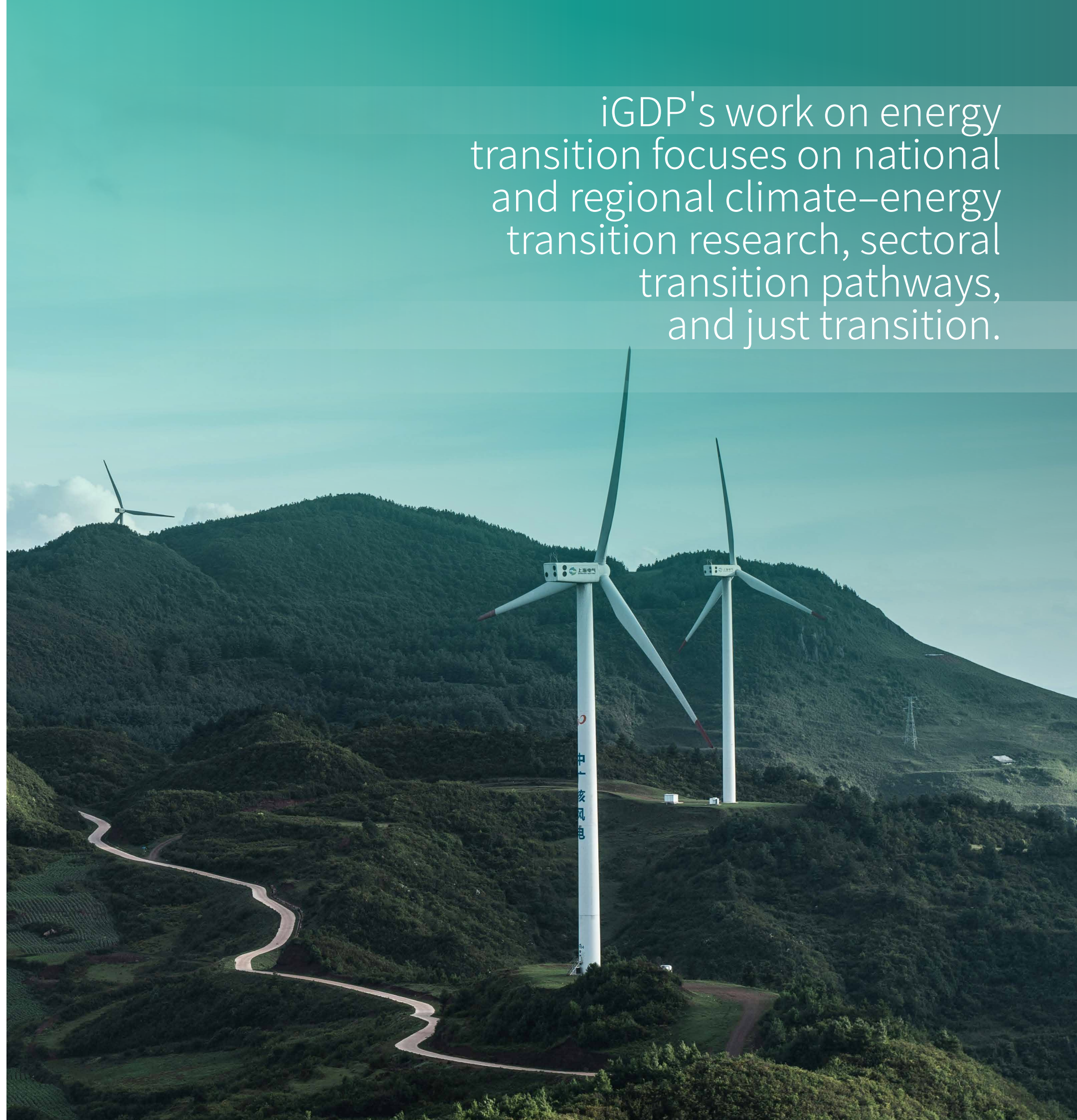
- **Power System Decarbonization & Coal Power Transition**

We monitor renewable energy deployment and coal power transition globally and in China. Using modeling and scenario analysis, we study regional renewable energy targets and roadmaps and develop solutions for the low-carbon transition of coal-fired power.

- **Emerging Issues**

We explore integrated solutions such as zero-carbon industrial parks/communities, virtual power plants, vehicle-grid integration, green cooling, and zero-carbon villages.

iGDP's work on energy transition focuses on national and regional climate–energy transition research, sectoral transition pathways, and just transition.



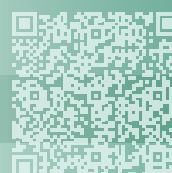
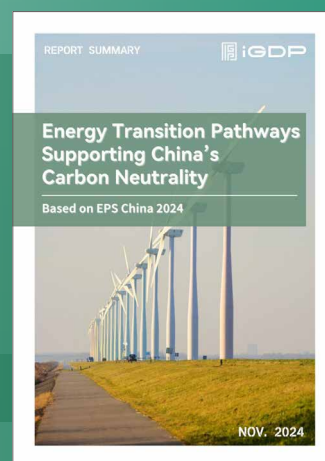
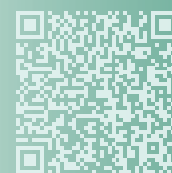
Climate-Energy Transition Research

April 2023 – iGDP released the report *Green and Low-Carbonization Analysis of the Power Industry of the Six Countries Along the “Belt and Road”*. Building on a review of studies by domestic and international institutions and expert interviews, the report conducted a systematic analysis of six representative countries across three continents along the Belt and Road. It examined policy directions for addressing climate change, macro socioeconomic and energy supply–demand characteristics and trends, growth potential of power demand, power market structures, electricity prices and costs, and development plans of the power sector.

July 2023 – iGDP released the report *Behind the Data: A Comparative Analysis of China’s Carbon Emission Data from Different Organizations*. Drawing on existing research, the report compared the methodologies and data from the latest carbon emission databases of 10 domestic and international research institutions. Focusing on energy-related CO₂ emissions, it estimated a benchmark time series of national carbon emissions for 2013–2021 based on China’s official data and assessed discrepancies between institutional databases and official benchmark.

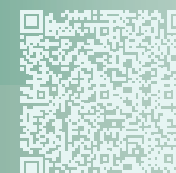
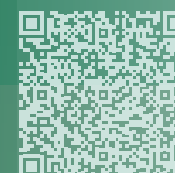
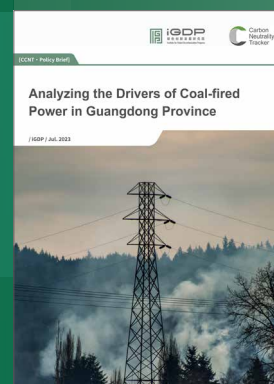
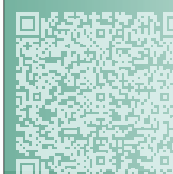
June 2024 – iGDP released *2023 China Energy Data*, which provides a detailed analysis of China’s energy data, including economy–energy linkages, primary energy supply, power generation, new and renewable energy, energy consumption, energy efficiency and conservation, energy trade, prices, technology, and energy–environment interactions. The report is intended to support evidence-based policymaking and research.

November 2024 – iGDP released the report *Energy Transition Pathways Supporting China’s Carbon Neutrality—Based on EPS China 2024*. The report provides an in-depth analysis of China’s future energy consumption structure and greenhouse gas emission trends under the carbon neutrality goal, and puts forward targeted policy recommendations.



November 2024 – iGDP released *China Province-by-Province Carbon Neutrality Roadmap Analysis: Challenges and Opportunities*. Based on foundational modeling across 30 provinces, the report highlighted regional differences in economic development, energy consumption, and carbon emission trends. It compared provinces’ progress toward peaking emissions before 2030 and achieving key climate targets, and analyzed emission trends of energy-intensive industries and economy-wide greenhouse gases (GHGs). The report further identified priority mitigation policies required at key milestones under the dual carbon scenario, and discussed opportunities and challenges for the top 10 emitting provinces.

December 2024 – iGDP released *Medium- and Long-Term Outlook for Low-Carbon Transition in Shanxi-Developing a “Dual Carbon” Pathway Using EPS Modeling*. The report reviewed Shanxi Province’s progress in low-carbon transition, projected long-term energy consumption and GHG emission trends using EPS modeling and scenario analysis, and identified priority sectors, targets, and mitigation policies under dual-carbon scenarios. It further evaluated investment requirements and potential impacts on GDP and employment, providing directional policy recommendations for Shanxi’s low-carbon transition.



Policy Briefs:

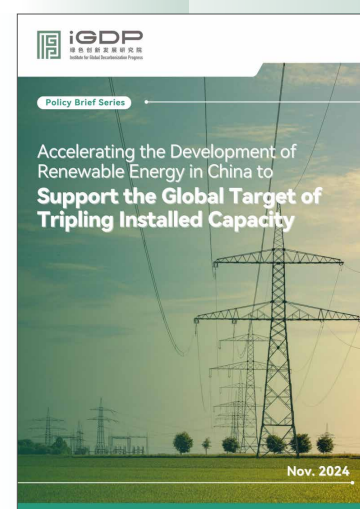
July 2023 - *Analysis of Progress and Drivers of Coal Power in Guangdong Province* – Zhang Xiaoli

September 2023 - *Low-Carbon Transition of Energy-Intensive Provinces in the Yangtze River Delta* – Liu Xueye, Tang Lijie, Zhu Tongxin

January 2024 - *Observation on Provincial Green and Low-Carbon Actions in the Building Sector During the 14th Five-Year Plan* – Han Di

Sectoral Transition Actions

November 2024 – iGDP released *Accelerating the Development of Renewable Energy in China to Support the Global Target of Tripling Installed Capacity*. This report focuses on China's renewable energy development process and its contribution to the global consensus target of tripling renewable capacity by 2030. It systematically analyzed policy frameworks, current progress, and future pathways. The report emphasized the need for China to establish comprehensive support systems across the value chain—ranging from R&D and equipment manufacturing to renewable integration—through legislative frameworks, fiscal incentives, market mechanisms (such as Green Electricity Certificates and quotas), and new power system development.



Policy Briefs:

July 2023 - *Policy Priorities for a Just Transition in China's Coal Resource-Based Regions* – Yang Li

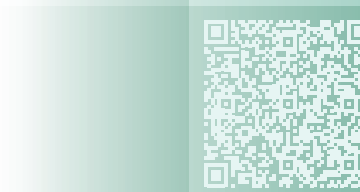


September 2023 - *Prospects for Including the Steel Industry in China's National Carbon Market* – Yuan Yating

January 2024 - *Green and Low-Carbon Development as a Core Principle of China's Industrial Growth-Stabilization Policy* – Song Manjiao



September 2024 - *Cultivating and Developing New Quality Productive Forces: Innovative Applications of Green and Low-Carbon Technologies in Traditional Industries (Series)* – Yang Li



Media Articles

March 9, 2023 – *In the Context of Dual Carbon Goals, How Are New Coal Power Projects Approved and Launched?* – Zhang Xiaoli, *New Media for Energy*

May 4, 2023 – *Is Coal Power the “Cure” for Driving Growth and Ensuring Power Supply in China's Largest Manufacturing Province?* – Zhang Xiaoli, *Dialogue Earth*

August 3, 2023 – *Promoting a Just Transition in Coal Resource-Based Regions to Ensure High-Quality*

Development and Common Prosperity – Yang Li, *Sustainable Development Economic Journal*

August 9, 2023 – *Is China Ready for Including the Steel Industry in the National Carbon Market?* – Yuan Yating, Yao Zhe, *Dialogue Earth*

September 10, 2023 – *How Important Is China's Rising New Energy Vehicle Industry?* – Yao Zhe, Chen Jianhua, Meng Qi, *China Automotive News*

Just Transition

Just Transition Dialogue Series 1: Actions and Lessons from Coal Regions

March 10, 2023 – At the seminar *Just Transition Dialogue Series 1: Actions and Lessons from Coal Regions*, Hu Min, Director and Co-Founder of iGDP, delivered closing remarks. Hu Min highlighted that just transition has deep roots in China's resource-based regional transitions and supply-side structural reforms. Under the new context of carbon neutrality and common prosperity, China's just transition is becoming more proactive and forward-looking, with more diverse goals that include not only economic growth and employment, but also social inclusion, gender issues, environmental justice, and decent work. China's just transition is systemic, placing stronger emphasis on the universality of social security systems. She stressed that China's policies should draw on international best practices and be structured across top-level design, regional development, low-carbon industrial transition, common prosperity and job security, fiscal and financial support, information disclosure, and public participation.

September 2023 – iGDP published the book *“Dual Carbon” Strategy and Just Transition*. Beginning with the transition of coal-dependent regions, the book provides a comprehensive analysis of the historical evolution of just transition, international and domestic practices, and new features and pathways under the dual-carbon and common prosperity context. It also proposes indicator systems, institutional mechanisms, and policy measures.

Just Transition in Conventional Energy-dependent Regions During the 8th Annual Conference of the China Energy Modeling Forum (CEMF)

April 24, 2024 – At the Sub-Forum on *Just Transition in Traditional Energy Regions During the 8th Annual Conference of the China Energy Modeling Forum (CEMF)*, Hu Min delivered a keynote speech on International Experiences in Promoting Just Transition. She shared insights from the newly published book *“Dual Carbon” Strategy and Just Transition*, covering international and domestic practices and contextualizing just transition in China's policy framework. She also presented preliminary results from iGDP's provincial dual-carbon pathway modeling, stressing the need for provinces to design just transition strategies aligned with their own carbon neutrality pathways.

BEYOND CARBON

Controlling emissions of non-CO₂ pollutants is critical to preventing climate overshoot and achieving the 1.5°C goal. Mitigation actions are deeply interlinked with development priorities including public health, food security, rural development, and air quality. iGDP accelerates mitigation of key gases and pollutants, including methane, nitrous oxide, fluorinated gases, and black carbon. We do this by promoting systemic solutions across the energy, agriculture, industry, and waste sectors to advance mid-to-long-term climate and green transition objectives.

Our key areas of focus include:

- **Methane, N₂O & F-gas Mitigation**

Monitor methane and F-gas initiatives across sectors and regions to identify and scale cost-effective methane abatement and sustainable cooling practices.

- **Non-CO₂ Mitigation in the Agri-Food System**

Analyze emission trends and abatement potential to catalyze green, low-carbon transformation of the agri-food system.

- **Climate Change and Air Quality Co-Control**

Measure climate, environmental, and societal co-benefits of reducing SLCPs (e.g., black carbon, ground-level ozone) and advance cross-sectoral mitigation strategies.

- **Non-CO₂ Mitigation Awareness Building**

Establish knowledge-exchange platforms to increase policy visibility and foster global stakeholder collaboration on mitigation practices.

iGDP's work on non-CO₂
GHG mitigation
focuses on SLCPs and other
key non-CO₂ pollutants.



Non-CO₂ Pollutants Mitigation

October 2024 – iGDP and the World Economic Forum jointly released the White Paper: *Black Carbon Reduction: A Rapid Action Plan*. The report analyzes challenges and solutions related to black carbon mitigation in five key countries—Brazil, China, India, Nigeria, and the United States—and puts forward concrete policy recommendations and action plans.

October 29–30, 2024 – iGDP analyst Zhu Tongxin delivered a keynote speech titled “Methane Mitigation Policies and Efforts at the Subnational Level in China” on the *2024 Korea International Carbon Neutrality Conference, Sub-Forum: Methane Mitigation Cases and National Cooperation*. She presented the current status of methane emissions in China and the national-level methane control policies, with a focus on interpreting the China Methane Emission Control Action Plan released in November 2023. Additionally, she introduced subnational methane control plans from five provinces—Ningxia, Shanxi, Tianjin, Hubei, and Guangdong—and analyzed the differing emphases between local targets and national objectives.

December 21, 2023 – iGDP Director and Co-Founder Hu Min delivered a keynote speech titled “Green Cooling and the Implementation of the Dual Carbon Strategy” on the 2023 Impactful International Climate Innovation Conference, Sub-Forum: Green Cooling to Balance “Heating” and “Cooling”. She highlighted that cooling solutions are not only critical for climate change mitigation but are also relevant to ten UN Sustainable Development Goals.

May 2024 – iGDP released the *Best Practices in Reducing Low-Concentration Coal Mine Gas Mitigations in China*. Focusing on Shanxi Province, the report draws on expert interviews and field research to analyze how selected enterprises achieve methane reductions under current policy, technology, and market conditions, generating both economic and environmental benefits. It also identifies key factors for replication and broader application.

November 2024 – iGDP published the report *Reducing Fertilizer Use and Improving Efficiency for N₂O Mitigation: Observations and Prospects*. The report examines the emission profile and mitigation progress of nitrous oxide, the third most significant greenhouse gas after CO₂ and methane, and offers recommendations for addressing related challenges.



November 2024 – iGDP also issued a series of policy briefs on methane, nitrous oxide, and fluorinated gases to promote knowledge exchange and cooperation on superpollutant mitigation:

Methane Mitigation Efforts and Prospects in China: This report reviews the domestic and international policies and regulatory measures on methane mitigation in recent years. It analyzes the opportunities and challenges China faces in reducing methane emissions in key sectors, highlights exemplary local practices in these areas, and provides an outlook on China’s methane reduction prospects.

Nitrous Oxide Reduction Efforts and Prospects in China: This report summarizes the main international policies and progress in global cooperation on N₂O reduction, as well as actions related to N₂O mitigation within China’s major dual carbon policies. It analyzes technologies and challenges for N₂O reduction in agriculture and industry, presents enterprise-level practices in China, and provides an outlook for N₂O mitigation actions both domestically and globally.

F-Gas Reduction Efforts and Perspectives in China: This report reviews EU and Japan policies on the reduction of fluorinated greenhouse gases (F-gases), international cooperation progress, and China’s major policy actions related to F-gas mitigation. It also introduces key reduction technologies, challenges, and enterprise-level practices for hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆) in China, and provides an outlook on the country’s F-gas mitigation efforts.

Media Articles:

April 24, 2023 – *Keeping Cool on a Hotter Planet* – Hong Jialing, Diego Montero, *China Daily*

May 5, 2023 – *Leading the Global Air-Conditioning Industry: Chinese Standards Help “Cool” the Planet* – Hong Jialing, Diego Montero, China Observer Think Tank, *China Daily*

September 13, 2024 – *How China Strengthens Coal Mine Methane Emission Management* – Chen Meian, Diego, Liu Hongqiao, *Caixin*

September 30, 2024 – *Second Largest Greenhouse Gas Emissions Hit Record High – How Can We Prevent Climate Change from Entering the Unknown?* – Zhu Tongxin, Ma Yue, *The Intellectual*

December 30, 2024 – *Solving the F-Gas Challenge: Prospects for Low-carbon transition in China’s Refrigeration Industry* – Ma Yue, *Caixin*

GREEN ECONOMICS

Fostering a comprehensive green and low-carbon transition in economic and social development requires establishing a supportive financial system. iGDP monitors the evolution of green and low-carbon elements within macroeconomic policy, focusing on research related to green pricing, environmental taxes, carbon taxes, green transformation of major projects, electricity pricing, and transition finance. This work aims to enable public and private investments to play a more foundational role in driving the green economic transition.

Our key areas of focus include:

- **International & Domestic Carbon Pricing Systems**

Research China's national carbon emissions trading system – covering system enhancement, sectoral expansion, and consignment auctioning – and the international implementation of carbon border adjustment mechanisms (CBAM) and their impact on China's key industries.

- **Power Market Reform & Electricity Pricing Mechanisms**

Analyze how market-based pricing, differentiated support measures, and institutional innovation drive the development of renewable energy and pathways for low-carbon energy transition.

- **Green Finance & Taxation**

Identify best practices in the implementation of green finance and fiscal policies at national and sub-national levels.

- **Greening Public Investment**

Assess the "greenness" of major project portfolios across provinces and their impact on provincial green economic and social transition.

iGDP's green economy work focuses on the impact of the *EU Carbon Border Adjustment Mechanism* (CBAM) on China's key industries, and promotes the design and implementation of fiscal and financial policies to support mitigation actions.

Quantification of the EU Carbon Border Adjustment Mechanism (CBAM)

Research Project on Quantification of the Impact of the EU Carbon Border Adjustment Mechanism on China's Steel Industry and Its Decarbonization Efforts

December 2022 — CBAM is a critical instrument for EU's climate agenda, and trade measures have become one of the key elements of international climate policy tools. The research team selected the steel industry as the focus of study and developed a quantitative analysis model. The team carried out an in-depth examination of CBAM's internal mechanisms and the drivers of low-carbon transition within China's steel industry. The project emphasized the quantification of interactions between external factors under CBAM and the internal emission reduction dynamics of China's steel sector. The insights generated from this study provide data support for climate and trade policy design, as well as for international cooperation. They also serve as a reference for steel export enterprises in formulating long-term emission reduction strategies. At the "International Carbon Border Adjustment Mechanism (CBAM)" seminar, Liu Xueye, Project Lead for Green Economics at iGDP, presented the findings of the CBAM project. She highlighted CBAM's impact on China's steel industry and shared the quantification of interaction trends between external policies and the sector's internal emission reduction drivers, offering participants new perspectives and policy insights.

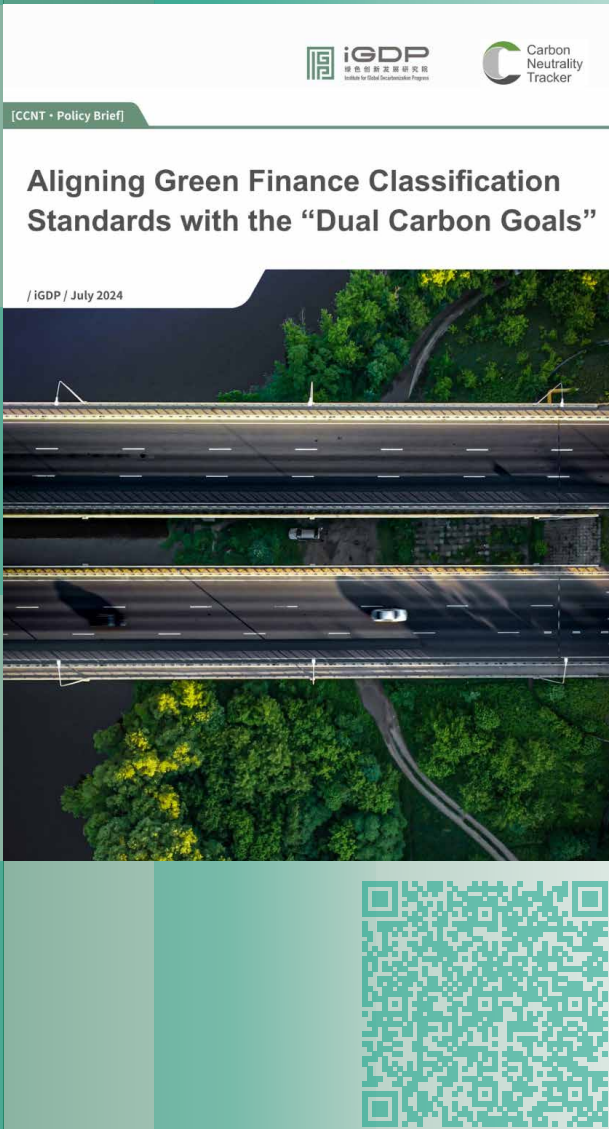


Transition Finance

November 2024 — iGDP released the report *Green Finance Taxonomy Must Be Closely Aligned with the Dual-Carbon Goals*. The report reviewed China's current national-level green finance taxonomy and provided an in-depth comparison of differences and similarities across taxonomies in terms of quantified targets, scope of application, and supported climate goals.

Media Articles:

November 18, 2024 – *Research and Recommendations on Transition Finance in Shanxi* – Liu Xueye, *Financial News*



CLIMATE GOVERNANCE

Climate change presents a significant global coordination challenge. Climate action is inextricably linked to macroeconomics, social development, and geopolitics, while supply chain security and international trade are vital to achieving global climate goals. iGDP works to raise climate ambition, drive climate action and regional cooperation on green, low-carbon technologies. iGDP also fosters a green, low-carbon, and just transition across the Global South.

Our key areas of focus include:

- **Deepening International Dialogue**
Participate in UN Climate Change conferences and facilitate multilateral dialogues on climate issues among key stakeholders, including China-Africa, China-US, and China-Europe partnerships.
- **Tracking Climate Action**
Share updates on national, sectoral, and regional climate actions through the China Carbon Neutrality Tracker (CCNT).
- **Raising Climate Ambition**
Analyze Nationally Determined Contributions (NDCs), model national long-term strategies, and evaluate the strength of climate commitments.
- **Exploring Emerging Topics**
Focus on critical emerging research areas such as Just Transition, green trade, and low-carbon supply chain security.

iGDP tracks climate action and cooperation both domestically and internationally. It promotes stronger NDC ambition and consensus, facilitates international exchanges on key issues, and participates in global climate governance mechanisms.



Climate Action Tracking

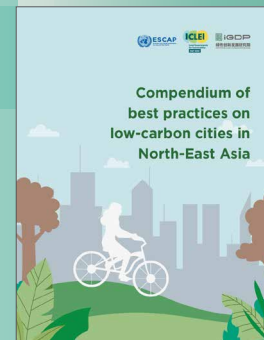
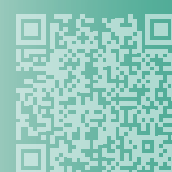
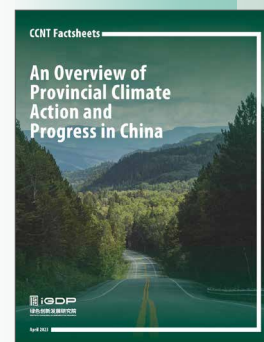
April 2023 — iGDP released *An Overview of Provincial Climate Action Progress*. Through a series of charts, the report presents local carbon emission trends, tracks the progress and implementation capacity of local energy and climate targets from 2015 to 2020, and assesses the strength of current policies.

October 2023 — iGDP, together with ESCAP and ICLEI, published the *Compendium of Best Practices on Low-Carbon Cities in North-East Asia*. The report introduced city-level emission reduction cases that had positive impacts on the Sustainable Development Goals (SDGs). It aimed to foster knowledge sharing among cities and accelerate the adoption of effective, locally appropriate mitigation measures.

NDC Assessment

China Climate and Energy Policy Dialogue

March 2, 2023 — Hu Min, iGDP’s Executive Director and Co-founder, held a dialogue with Juan Verde, former U.S. Deputy Assistant Secretary of Commerce, on China-U.S. climate and energy policy. They discussed policy progress and prospects for cooperation. Ms. Hu presented China’s dual-carbon policy strategy, the development status of clean energy, and the challenges and opportunities of global energy decarbonization under the broader context of energy security. She emphasized the importance of China-U.S. climate cooperation for the world, especially for supporting low-carbon transitions in less developed countries.



International Exchanges

Kuliang Chat on Climate Change: China and U.S. in Action

June 27, 2024 — Diego Montero, iGDP’s Strategy Director, delivered a speech at this forum. He emphasized that climate change is a global crisis requiring joint efforts from all countries. He highlighted the critical roles of China and the U.S. in global emission reduction and stressed that bilateral cooperation on climate issues could provide valuable lessons for other countries, particularly developing nations.

Collaborative Efforts for Africa’s Energy Transition” Africa-China Civil Society Organizations Dialogue

September 5, 2024 — Hu Min, iGDP’s Executive Director and Co-founder, delivered opening remarks at the “Collaborative Efforts for Africa’s Energy Transition” Africa-China Civil Society Organizations Dialogue. She underlined the vital role of social organizations in advancing energy transitions in Belt and Road Initiative (BRI) countries. She pointed out that Africa’s energy transition involves both universal electricity access and modernization/industrialization, which require comprehensive contributions from social organizations.

Zero-Carbon Future– 2024 Vietnam New Energy Industry Study Tour

From October 21 to 24, 2024 — Supported by the World Resources Institute (WRI), iGDP and the Guangdong Kaiming Guangdong–Hong Kong–Macao Carbon Neutrality Research Institute jointly organized this study tour. The delegation visited the Hanoi Investment Promotion Agency and several Chinese and Vietnamese enterprises in the solar, EV, and battery sectors. Together, they explored new opportunities and challenges for renewable energy development in China and Vietnam under a complex international environment, and sought potential solutions and directions for future cooperation.

Media Articles:

February 27, 2023 – Key Climate Politics Terms for 2023: Energy Security, Economic Recovery, and Green Industry Development – Yao Zhe, *The Paper*

September 26, 2023 – “Reckless”: Global Responses to UK Prime Minister’s Climate Backslide – Yao Zhe, *Dialogue Earth*

September 11, 2024 – In the Boiling Age, Cities Should Formulate Medium- and Long-Term “Summer Heat Response Plans” – Hu Min, Hong Jialing, *The Paper*

October 9, 2024 – Scorching Heat: How Should Cities Respond? – Lu Tengfei, Han Di, *World Environment*

December 19, 2024 – Chinese Clean Energy Investments in Vietnam– Bao Linjie, Diego Montero, *New Security Beat*



Tools

5

CHINA CARBON NEUTRALITY TRACKER (CCNT)

iGDP's China Carbon Neutrality Tracker (CCNT) is a comprehensive online database of Chinese carbon neutrality information across multiple dimensions. It systematically monitors climate actions at national, sectoral, and regional levels throughout China.

CCNT analyzes policy implementation and innovation in China's net-zero transition, providing a multidimensional evaluation of China's progress toward its "Dual Carbon" goals—carbon peaking and carbon neutrality—across sectors and regions.

CCNT aims to serve as a key resource for climate professionals worldwide, supporting global efforts toward a zero-carbon future.

CCNT Expert Committee:

Chen Ying – Head of Expert Group, Research Fellow, Research Institute for Eco-Civilization, Chinese Academy of Social Sciences

Kelly Sims Gallagher – Academic Dean and Professor of Energy and Environmental Policy, The Fletcher School, Tufts University

Liao Cuiping – Research Fellow, Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences

Ma Jun – Director, Institute of Public & Environmental Affairs (IPE); Founder, Blue Map

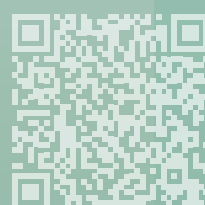
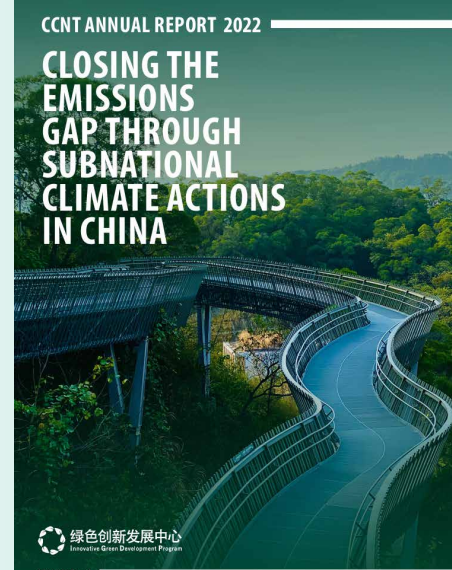
Xi Xiping – Deputy Director, Department of Industry, Jiangxi Academy of Sciences; Research Fellow

Yuan Jin – Founder and President, Shanxi Coshare Innovation Institute of Energy & Environment

Zhang Fang – Professor and Doctoral Supervisor, School of Public Policy and Management, Tsinghua University

CCNT Annual Report

In March 2023, CCNT released *CCNT Annual Report 2022: Closing the Emissions Gap Through Subnational Climate Actions in China*. The report reviews key provincial climate actions and policy implementation, presenting actual carbon emission trends, progress and policy ambition in achieving national dual carbon targets, and the realization of provincial energy and climate goals between 2015 and 2020. Through case studies, the report assesses whether existing policies can adequately support local dual carbon targets and provides recommendations for strengthening subnational climate action.



ENERGY POLICY SIMULATOR (EPS)

Energy Policy Simulator (EPS) is a free, open-source system dynamics tool developed by Energy Innovation (EI) in the United States. This quantitative analysis tool simulates and evaluates the impacts of energy and climate policies.

In 2017, EI partnered with China's National Center for Climate Change Strategy and International Cooperation (NCSC) and the Energy Research Institute of the National Development and Reform Commission (ERI) to develop the first China-specific EPS model. Since 2021, iGDP has collaborated with EI to launch the EPS China iGDP 2024 online version.

To support the regional application of EPS in China, iGDP has worked with local research institutions to develop provincial EPS models for Shanxi, Guangdong, Jiangxi, Hainan, Chongqing, and Anhui, along with EPS Provincial Base Models covering 30 provinces. Building on these base models, the iGDP team has created the China Regional Transition Outlook-EPS (CRTO-EPS), a regional energy and emissions projection tool used to track green and low-carbon transition across provinces.

The modeling system is powered by the iGDP Energy Database, which integrates data from government portals and industry associations' public disclosures.

EPS Provincial Model Access

<https://www.igdp.cn/energy-policy-simulator-cn/>

PLATFORMS



GREEN AND LOW-CARBON DEVELOPMENT THINK TANK PARTNERSHIP (GDTP)

iGDP serves as the secretariat of China's Green and Low-Carbon Development Think Tank Partnership (GDTP). This collaborative network facilitates communication and research cooperation between members, focusing on identifying and implementing the most effective low-carbon research tools and practices from both domestic and international sources.

GDTP provides a robust support network for technological development and low-carbon planning while promoting green transformation and enhancing the global impact of China's low-carbon initiatives.

The Partnership benefits from the leadership of distinguished senior advisors, including China Engineering Academy member Mr. Du Xiangwan, Professor He Jiankun, Professor Liu Yanhua, and Professor Zhou Dadi. Established by the China Energy Research Council Energy Systems Engineering Committee, GDTP serves as a vital platform connecting China's leading low-carbon research institutes, economists, and energy and environmental experts.

Launched in June 2014, GDTP has grown to include more than 80 experts and 47 low-carbon think tank partners, with its Secretariat based in Beijing.

GDTP 2023 Annual Conference

March 24–25, 2023 — The GDTP Annual Conference was held in Guangzhou under the theme “Local Carbon Peaking and Carbon Neutrality: Deepening and Breakthroughs”. Six sub-forums were organized, covering topics such as policy trends and sectoral hot topics, local experiences in implementing dual carbon strategies, building scientific decision-support systems for carbon peaking and neutrality, low-carbon agricultural development and methane reduction in central China, local industrial green transitions, and energy system transformation in the Greater Bay Area.

GDTP 2024 Annual Conference

April 21–22, 2024 — The GDTP Annual Conference was convened in Beijing. The event featured two plenary forums and four parallel sessions, with discussions focusing on building electrification, green transitions in energy-resource-based regions, low-carbon transition in the Yangtze River Delta, and low-carbon freight.

Over 100 representatives from national think tanks and partner institutions in Inner Mongolia, Shanxi, Shaanxi, Shandong, Anhui, Zhejiang, Shanghai, Jiangxi, and Guangdong engaged in in-depth discussions under the theme “Advancing Green and Low-Carbon Transition and Developing New Quality Productive Forces”.



ACTION 2035

ACTION 2035 is a comprehensive capacity-building initiative launched by iGDP with multi-stakeholder support to advance local dual carbon goals. The program operates through three key strategies:

- Establishing regional climate hubs
- Conducting collaborative research
- Building knowledge-sharing platforms

This integrated approach unlocks local emission reduction potential, elevates regional transition ambitions, and accelerates low-carbon transformation processes.

Currently operational in Guangdong, Shanxi, Anhui, and Shandong provinces, ACTION 2035 forms strategic partnerships with local governments, research institutions, and enterprises to implement pioneering and results-driven climate solutions.

Pillar Research

Emission trends by province, city, and region (2015–2060)



Data sources: <https://igdpoffice.sharepoint.com/:u:/s/EPs/EcZXAZDSLRAio7pn7KuGGcBDNKdTzdkdzDuHcGtUL1Zw?e=jCJFiB>

Platform Development

Launch of the Shanxi Green and Low-Carbon Transformation Cooperation Platform

October 27, 2023 — The Shanxi Green and Low-Carbon Transition Partnership Platform, jointly established by the Shanxi Coshare Innovation Institute of Energy & Environment (hereinafter Coshare) and iGDP, was officially launched in Taiyuan. The event brought together more than 20 participants, including experts and scholars in economics, society, industry, energy, low-carbon development, and environment from the national level and Shanxi Province, as well as participants from Coshare and iGDP. The experts discussed effective participation, platform communication, and emerging topics in Shanxi's green and low-carbon development. Professor Yuan Jin, President of Coshare, concluded the meeting and announced the formal establishment of the platform.

Launch of the Guangdong Working Group on Climate Change Scientific Decision-Making and Practice

January 11, 2024 — iGDP and the Guangdong Low Carbon Development Promotion Association jointly launched the Guangdong Working Group on Climate Change Scientific Decision-Making and Practice in Guangzhou. The initiative is part of a collaborative project to enhance the capacity of government departments, industries, and enterprises in understanding and implementing climate action and dual carbon strategies. It also aims to strengthen public communication and capacity building for green and low-carbon development in Guangdong, supporting the province's efforts to achieve carbon peaking and carbon neutrality, and to provide policy recommendations for provincial dual-carbon pathways.

Launch of the Anhui Working Group on Green and Low-Carbon Development—Scientific Decision-Making and Practice and Seminar on Coal Power Transition

December 3, 2024 — Under the guidance of the Anhui Provincial Development and Reform Commission, iGDP and the Anhui Academy of Economic Research jointly established the Anhui Working Group on Green and Low-Carbon Development Scientific Decision-Making and Practice. The working group brings together local, national, and international experts with extensive experience in Anhui's green and low-carbon practices. Its research areas include energy transition, grid systems, transport, buildings, environment, and fiscal and financial systems.

Inauguration of the ACTION 2035 Climate Solution Shanxi Center and Seminar on “15th Five-Year Plan Innovative Measures for Shanxi's Dual-Carbon Progress”

December 7, 2024 — The Shanxi Coshare Innovation Institute of Energy & Environment and iGDP jointly announced the establishment of the *ACTION 2035 Climate Solution Shanxi Center* and held its inauguration ceremony at the Shanxi Coshare Innovation Institute of Energy & Environment. The center will serve as the Secretariat of the Shanxi Green and Low-Carbon Transformation Cooperation Platform, providing support for daily operations and conducting research on key topics.



Research Collaboration

Expert Workshop on Local “Dual Carbon” Strategy Implementation: Scientific Decision-Making and Capacity Building

April 17, 2023 — iGDP held an expert workshop in Beijing on *Local “Dual Carbon” Strategy Implementation: Scientific Decision-Making and Capacity Building*. Experts discussed topics including the scope of local strategy implementation, key industry sectors, risks and opportunities, and institutional challenges. They shared progress on regional policies and decoupling, and explored foundational work to strengthen dual-carbon measures. Experts from the Chinese Academy of Social Sciences, Energy Foundation, and ERI of the NDRC contributed to the discussions.

Progress Meeting on Provincial “1+N” Policy Assessment: Gaps and Strengths

November 14, 2023 — iGDP hosted a progress meeting titled *Gaps and Strengths: Provincial “1+N” Policy Assessment*. The meeting focused on provincial-level policy implementation, capacity building, and the challenges and opportunities in achieving carbon neutrality. Using case studies from Guangdong and Shanxi, participants discussed priorities in policy execution, technology transfer, and capacity needs.

China–U.S. Subnational Clean Energy Transition and Climate Solutions International Workshop

May 30–31, 2024 — iGDP and Lawrence Berkeley National Laboratory (LBNL) co-hosted the *China–U.S. Subnational Climate Action Workshop* in San Francisco. More than 50 policymakers, scholars, and representatives from Guangdong, Shanxi, Hainan, Shanghai, Tianjin, and the Macao SAR attended. Discussions covered topics including flexible grids, industrial decarbonization, low-carbon buildings, non-CO₂ greenhouse gas mitigation, and carbon markets.

Anhui Seminar on Large-Scale Equipment Renewal and New Quality Productive Forces

July 3, 2024 — Hu Min, Director and Co-founder of iGDP, delivered a speech at the *Anhui Seminar on Large-Scale Equipment Renewal and the Cultivation of New Quality*

Productive Forces. Based on iGDP’s research and modeling, she noted that climate mitigation–related investment in Anhui Province between 2021 and 2035 would need to account for about 5–9% of the province’s annual GDP to align with dual carbon targets. Under the peaking scenario, energy efficiency investment accounts for about 24% of the total, while under the neutrality scenario, this proportion would increase to 60%. Such significant investment requires institutional and policy innovations to mobilize both public and private capital. She also emphasized the importance of enhancing climate resilience and upgrading standards in the building sector to stimulate compliance incentives and motivate enterprises to pursue equipment renewal.

First Training Session of the Climate Action Modeling Capacity-Building Program

August 19-20, 2024 — iGDP held the first training session of the Climate Action Modeling Capacity-Building Program. The session introduced iGDP’s work on the Energy Policy Simulator (EPS), including maintaining the national model, developing provincial baseline models, supporting sectoral research, organizing capacity-building activities, and establishing a technical support center.

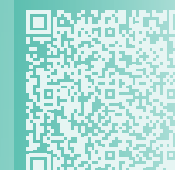
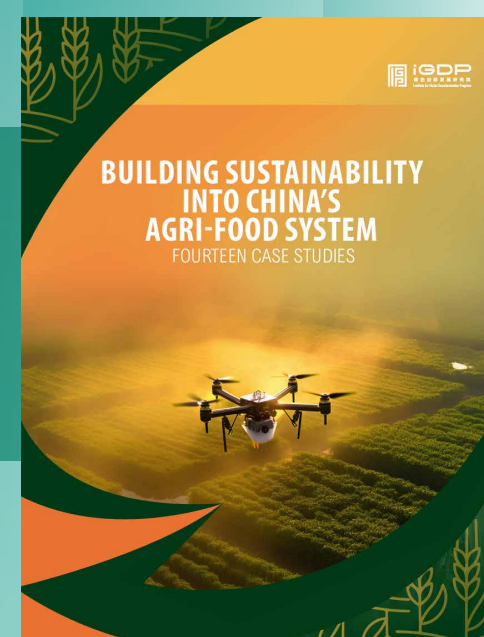
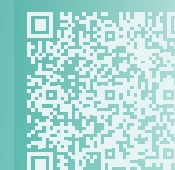
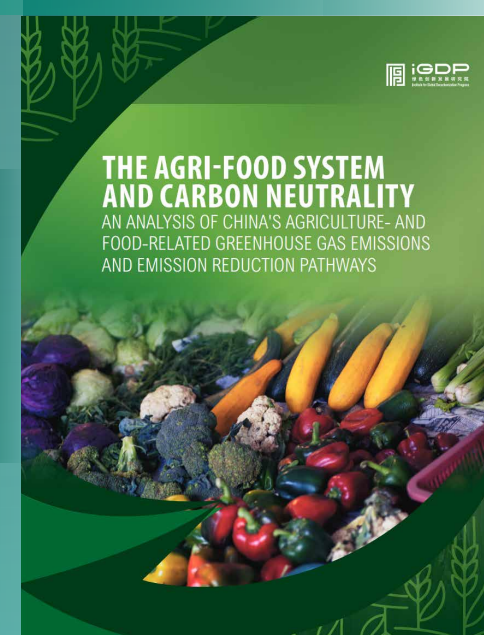
Li Xindi, iGDP’s Project Lead for Energy Transition, provided a comprehensive briefing on the national and provincial EPS baseline models. The iGDP modeling team has developed baseline models for 30 provinces, identifying key priorities and pathways for regional transitions. Findings show that while provinces could peak emissions before 2030 under policy scenarios, achieving carbon neutrality by 2060 will be highly challenging, especially in achieving net-zero emissions for non-CO₂ gases.

Capacity Construction

- **September 26-28, 2023** — Industrial Pollution and Carbon Reduction Training Workshop
- **March 28, 2024** — Training on Regional Dual-Carbon Pathway Planning Methods and Sharing of Best Practice Cases on Energy Conservation and Carbon Reduction
- **April 17, 2024** — Automotive Industry Pollution and Carbon Reduction Training Workshop



迎汽车行业减污降碳能力建设研修班各位老师



GREEN AND LOW-CARBON AGRI-FOOD ACTORS PLATFORM (GAAP)

Launched in July 2024, the Green and Low-Carbon Agri-Food Actors Platform (GAAP) represents a collaborative initiative between iGDP and several partner institutions. This innovative platform unites experts and organizations across diverse fields and geographical regions, creating a dynamic forum for sharing progress, addressing challenges, and developing solutions for climate-resilient agri-food systems. GAAP continuously monitors emerging topics and organizes targeted research and exchange activities aligned with key policy developments, fostering the dissemination and adoption of best practices for sustainable, low-carbon agricultural approaches throughout the sector.

Agri-food System Emission Reduction Research

November 2023, iGDP published *The Agri-Food System and Carbon Neutrality—An Analysis of China's Agriculture- and Food-Related Greenhouse Gas Emissions and Emission Reduction Pathways*. From the perspective of the agri-food system—covering all stages from agricultural production, food processing, packaging, transportation, and retail to consumption—the report provides a comprehensive assessment of total greenhouse gas emissions across the system. By reviewing existing policies, practices, and technologies at each stage of the agri-food system, it analyzes emission reduction potential, identifies key pathways and priority measures to achieve carbon neutrality, and proposes a series of specific recommendations.

November 30, 2023, iGDP released *Building Sustainability into China's Agri-Food System-Fourteen Case Studies*. This report collects and analyzes cases of China's efforts to promote sustainable transformation of the agri-food system. It explores how different actors—such as governments, enterprises, farmers, or civil society organizations—drive the system toward climate-friendly and sustainable development through mechanism design and innovation.

Platform Activities

Sustainable Dining Dialogue under Climate Change

May 19, 2024 — iGDP analyst Zhu Tongxin delivered a keynote speech at this dialogue on the role of the catering sector in agri-food system emission reduction. She highlighted that, with economic development and rising living standards, carbon emissions in the catering industry are increasing. She then introduced practices in which the sector participates in emission reduction across the agri-food system, such as sourcing climate-friendly food, promoting electrification, and utilizing kitchen waste. She also shared good practices from the perspective of individual dietary choices, corporate behavior, advocacy by social organizations, and government involvement in promoting climate-friendly diets.

Launch of the Green and Low-Carbon Agri-Food Actors Platform (GAAP) & China Agri-food System Transformation Seminar

July 1, 2024 — iGDP hosted the GAAP launch event and seminar in Kunming, co-organized with the Pesticide Eco-Alternatives Center (Yunnan Sili). Nearly 30 experts and practitioners from Beijing, Sichuan, Guangdong, Yunnan, and Chongqing participated. GAAP was established to create a collaborative platform spanning multiple sectors and regions, sharing practices and policy progress in response to climate change, exchanging challenges, and exploring solutions to contribute to the green and low-carbon transition of China's agri-food system.

Thailand Climate-Resilient Agriculture Conference: Climate-Resilient Rice Cultivation Practices

November 28–29, 2024 — iGDP analyst Zhu Tongxin delivered a keynote speech at this conference, introducing China's agri-food system greenhouse gas emissions, context, and challenges. She emphasized that low-carbon and sustainable agri-food systems can align with China's long-term strategies, including rural revitalization, food security, the dual carbon goals, ecological civilization construction, and zero-waste city initiatives.

Climate Catalyst-Impacts of Extreme Weather on Chinese Agriculture

July 28, 2024 — GAAP participated in the Climate Catalyst event “Impacts of Extreme Weather on Chinese Agriculture”, inviting experts from meteorology and agriculture to discuss adaptation and mitigation strategies under extreme weather. Experts noted that droughts, heavy rain, and heatwaves seriously threaten food security, recommending adjustments in planting patterns, enhanced weather warnings, and promotion of organic farming to improve agricultural resilience. The discussion highlighted organic agriculture's potential to reduce greenhouse gas emissions and enhance soil carbon sequestration, providing critical insights for green agricultural development and rural revitalization.



Climate Catalyst-Agricultural Emission Reduction and the Voluntary Carbon Market

October 11, 2024 — GAAP participated in the Climate Catalyst event “Agricultural Emission Reduction and the Voluntary Carbon Market”, responding to China's Methane Reduction Action Plan and Agricultural and Rural Emission Reduction & Carbon Sequestration Action Plan. The event focused on linking agricultural emission reduction with carbon markets to promote sustainable development, with invited experts sharing challenges and opportunities from policy, technology, and market perspectives.

Climate Catalyst-Innovative Pathways and Challenges in Low-Carbon Livestock Farming

November 12, 2024 — GAAP participated in the Climate Catalyst event “Innovative Pathways and Challenges in Low-Carbon Livestock Farming”, focusing on the low-carbon transition of the livestock sector. Experts discussed how technological innovation, policy support, and market mechanisms can advance emission reduction, particularly in feed optimization, manure management, and carbon footprint accounting.

Media Articles

January 9, 2023 – *Agri-food Systems: Long-Ignored Sources of Carbon Emissions in Need of Comprehensive Reduction Strategies* – Chen Meian, Yefren, Hu Min, *China Daily: China Observation Think Tank*

October 26, 2023 – *All You Can Eat: Unlocking Greenhouse Gas Mitigation Potential in China's Agri-food System* – Chen Meian, Diego, *China Environmental Forum*

November 6, 2023 – *From Animal Waste to Energy: A Climate Solution on Chinese Farms* – Zhu Tongxin, Diego, *China Environmental Forum*

September 4, 2024 – *Behind Surging Vegetable Prices: Are Extreme Weather Events in Control?* – Ma Yue, Zhu Tongxin, *The Intellectual*

Food4Climate

The Food4Climate column, featured on iGDP's official WeChat channel, delivers insights on emerging technologies, policy developments, economic trends, and cross-cutting challenges.

INTERNATIONAL ENGAGEMENT

UNITED NATIONS CLIMATE CHANGE CONFERENCES (COP)

The United Nations Climate Change Conferences (COP) are the central global forums for addressing climate change, tasked with promoting collective action by countries and advancing the goals of the Paris Agreement. COP28 was held in Dubai, UAE, from November 29 to December 12, 2023, and COP29 took place in Baku, Azerbaijan, from November 4 to 17, 2024. Both conferences occurred at critical junctures for global climate action, with the international community closely monitoring countries' commitments and actions in key areas such as emission reduction, adaptation, and financial support.

As an observer organization of the United Nations Framework Convention on Climate Change (UNFCCC), iGDP participated consecutively in COP28 and COP29. Through co-hosting events, participating in collaborative sessions, and delivering roundtable presentations, iGDP shared its latest research findings and insights, contributing to global climate governance cooperation and experience exchange. During the conferences, iGDP released a series of research reports and policy briefs aimed at helping stakeholders better understand emission reduction challenges, explore concrete pathways to achieve carbon neutrality, and advance global climate action.

In addition, iGDP engaged in extensive exchanges with country representatives and international organizations. Through its social media columns, iGDP launched the "Dubai Up Close" and "Baku Today" series, publishing a total of 26 original articles that provided real-time analysis and observations from the COP venues, promoting collective efforts to implement the Paris Agreement and supporting global collaboration in responding to climate change.



COP 28 ACTIVITIES:

- **November 14, 2023** – Pre-COP28 Communication Salon
- **November 22, 2023** – Towards COP28 in the UAE: Reviewing Progress and Opening a New Chapter of Cooperation Pre-Meeting
- **December 5, 2023** – COP28 Side Event: Carbon Neutrality Vision and Energy Transition in the Guangdong-Hong Kong-Macao Greater Bay Area
- **December 5, 2023** – COP28 Side Event: Sustainable Agriculture and Green Supply Chains
- **December 10, 2023** – COP28 Side Event: Global Cooperation for Sustainable Energy Development in Africa
- **December 11, 2023** – COP28 Side Event: Trade Policy and Industrial Low-Carbon Transformation
- **December 11, 2023** – COP28 Side Event: China-US-EU Civil Society Climate Dialogue

COP 29 ACTIVITIES:

- **September 20, 2024** – Pre-COP Roundtable Sharing Session
- **November 11, 2024** – COP29 Side Event: Women's Power in Sustainable Development
- **November 11, 2024** – COP29 Side Event: Supporting Methane Reduction – Local Challenges and Solutions
- **November 13, 2024** – COP29 Side Event: Superpollutant Action in Agriculture
- **November 13, 2024** – COP29 Side Event: Methane in Focus: Strengthening Energy Methane Policies and Civil Society Action in Asia and Beyond
- **November 16, 2024** – COP29 Side Event: A Roadmap to International Methane Action by COP31
- **November 20, 2024** – COP29 Side Event: Subnational Climate Action – A Civil Society Dialogue among China, Europe, and The U.S.
- **November 21, 2024** – COP29 Side Event: Empowering Change: The Role of NGOs & Businesses in Forging Public Health & Climate Change Solution
- **November 21, 2024** – Engaging New Players in Climate Action to Make Collective Impact
- **December 6, 2024** – Unpacking COP29: Global Goals, China's Path, and Business Climate Action

INTERNATIONAL FORUMS

IEA Global Conference on Energy Efficiency: “Raising Energy Efficiency Ambition through Global Collaboration: Scale and Speed” Roundtable

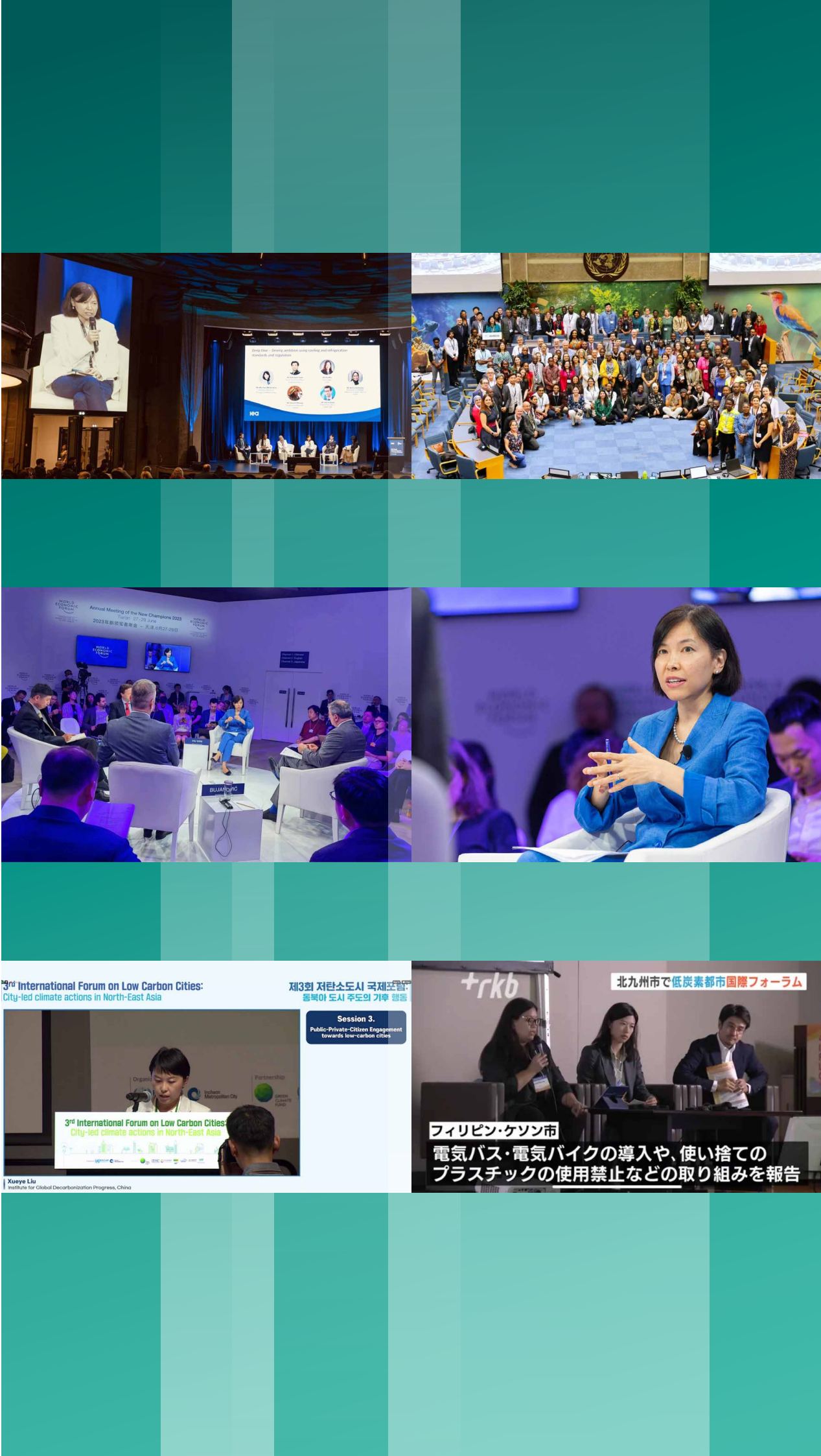
June 8, 2023 — Hu Min, Director and Co-Founder of iGDP, spoke at the roundtable “Raising Energy Efficiency Ambition through Global Collaboration: Scale and Speed” during the IEA Global Conference on Energy Efficiency. She shared iGDP’s work in promoting green refrigeration, highlighting China’s practices in improving air conditioner efficiency standards and accelerating refrigerant substitution as important Chinese green development stories to share globally.

World Economic Forum 14th Annual Meeting of the New Champions: “The Era of Materials” Thematic Forum

June 29, 2023 — Hu Min participated in the “The Era of Materials” thematic forum at the World Economic Forum 14th Annual Meeting of the New Champions. She shared insights on how innovations can drive sustainable material supply and enhance industry resilience under the context of net-zero transition. She emphasized the need to increase awareness of the complexity and urgency of material-related challenges, and to promote innovation aimed at reducing clean technology energy consumption or material intensity, while ensuring government policies focus on these priorities.

3rd International Forum on Low-Carbon Cities

August 29, 2023 — Liu Xueye, Senior Analyst at iGDP, delivered a keynote speech on “Climate Action in Chinese Cities” at the 3rd International Forum on Low-Carbon Cities. The forum aims to promote partnerships for low-carbon, sustainable, and resilient cities, providing a platform for cities to launch carbon neutrality initiatives, improve information sharing, and strengthen inter-city networks and peer learning.



CCAC 2024 Annual Meeting

February 21, 2024 — Chen Meian, Senior Program Director at iGDP, was invited to the Climate and Clean Air Coalition (CCAC) 2024 Annual Meeting. She held exchanges with representatives from various countries and regions on the latest progress and challenges in reducing short-lived climate pollutants (SLCPs). The meeting brought together 86 country partners and 83 non-state partners of CCAC to discuss the latest scientific and policy developments and share best practices.

2024 Summer Davos Forum: New Frontiers of Future Growth

June 25, 2024 — Hu Min, Director and Co-Founder of iGDP, delivered a speech at the 2024 Summer Davos Forum: New Frontiers of Future Growth. In her remarks, she outlined four recommendations to address the global imbalance in energy transition investment. First, international cooperation should be maintained to facilitate the deployment of new technologies and reduce costs, benefiting more underdeveloped regions. Second, the process of promoting clean energy investment should include strengthened industrial chain cooperation with other Global South countries to share the benefits of renewable energy development. Third, appropriate incentive policies should be established, including the reduction of fossil fuel subsidies. Fourth, substantial investment should be directed toward energy efficiency projects to increase energy supply while minimizing waste.

4th International Forum on Low-Carbon Cities

October 8, 2024 — Li Xindi, iGDP’s Project Lead for Energy Transition, participated in the roundtable “Policy and Governance: Co-Benefits and Synergies for Resilient and Sustainable Urbanization” at the 4th International Forum on Low-Carbon Cities. She highlighted China’s climate and energy policy framework and shared iGDP’s research on green and low-carbon transitions across China’s provincial regions. She noted that, under existing policy guidance, all regions have improved their green and low-carbon development levels from 2015 to 2021. Key emission reduction areas include renewable energy development, electrification of building energy facilities, and increased electric vehicle penetration, with related policies effectively supporting urban resilience and sustainable development.

LOCAL SENSUS



FAREWELL COAL

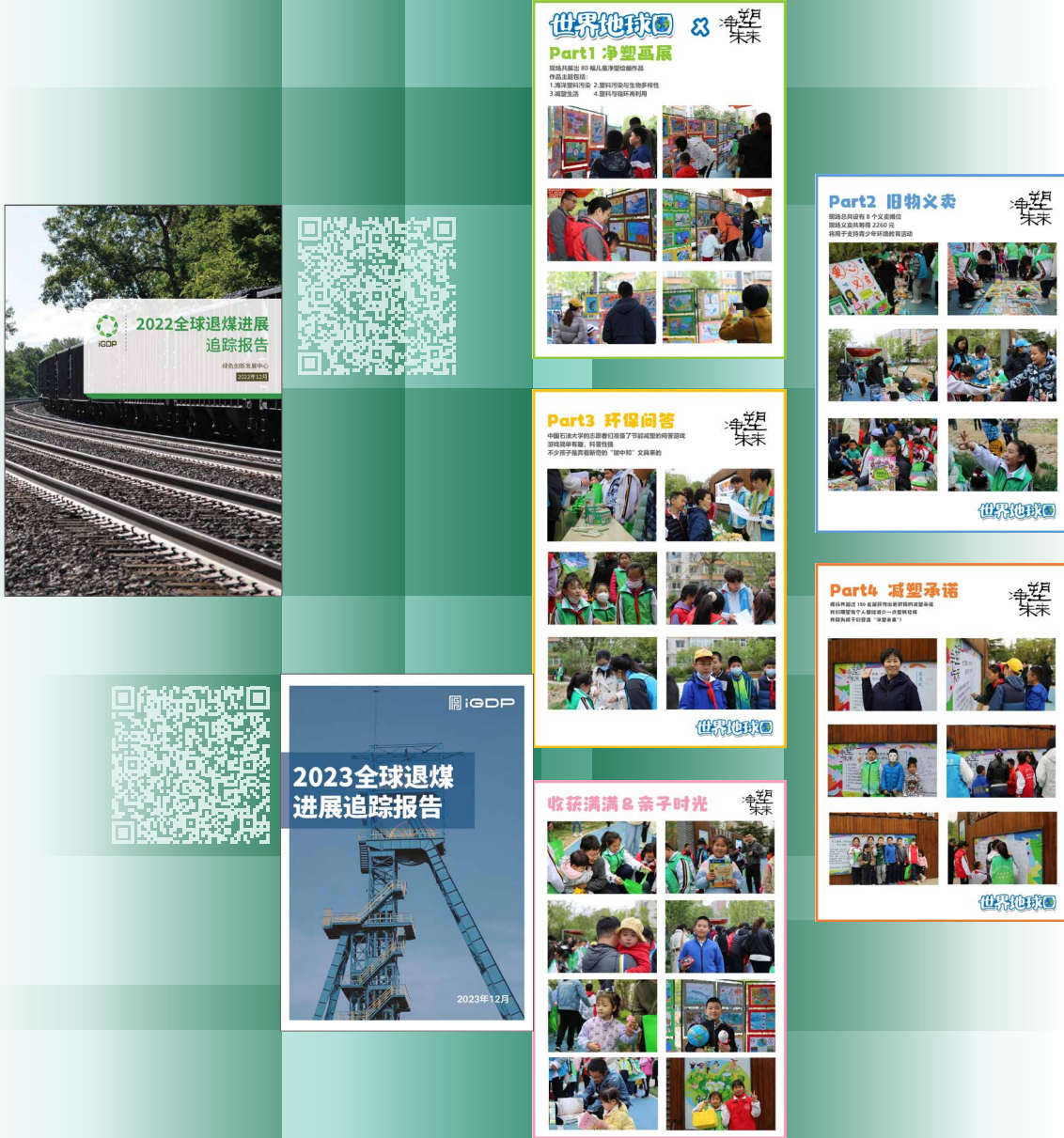
Farewell Coal gathers, examines, and shares vital information on coal phase-out initiatives—spanning research findings, policy developments, and corporate commitments. We strive to accelerate the mainstream adoption of coal reduction strategies across China.

January 2023 — iGDP published the *2022 Global Coal Phaseout Progress Tracking Report*. Since 2023, Farewell Coal has expanded its focus from coal phaseout to broader climate transformation issues. Leveraging iGDP’s flagship event series *Climate Catalyst*, multiple online discussions were organized, and expert insights were incorporated into the *2023 Global Coal Phaseout Progress Tracking Report*. Within three years of its founding, Farewell Coal has curated and shared over 300 articles, highlighting domestic and international actions and progress on relevant issues and fostering broader and more proactive discussions. These records offer a glimpse into the hopes and challenges of the global energy system as it navigates a complex transition.

April 2024 — iGDP published the *2023 Global Coal Phaseout Progress Tracking Report*. In 2024, over 80 news articles or research updates were compiled and shared via Farewell Coal, garnering a cumulative 115,000 views. The *2024 Global Coal Phaseout Progress Tracking Report* selected key topics and insights from these materials to showcase global energy transition achievements over the year.

CLIMATE CATALYST

The *Climate Catalyst* event series, established by iGDP since 2014, has organized over 30 events to date. *Climate Catalyst* convenes leading experts to address critical climate change challenges, creating a vital bridge between researchers, policymakers, and the public. By facilitating meaningful dialogue and knowledge exchange, we accelerate global progress toward green and sustainable transformation.



LOW-CARBON COMMUNITIES

As the core unit of urban life, communities are living labs for boosting climate awareness and improving sustainable infrastructure. Since 2019, iGDP has been working with communities across China to advance public education and capacity-building for community workers on critical issues like plastic pollution reduction, green cooling, and low-carbon consumption. Through diverse activities, iGDP aims to inspire behavioral change towards emission reduction and empower community workers to integrate a climate-friendly perspective into community planning, resource integration, and allocation. Our efforts are documented in a series of case studies that share actionable insights and provide a valuable reference for practitioners nationwide.

Plastic-Free Future × Community Empowerment

From November 2021 to September 2022 — With support from the Rethinking Plastics project, iGDP designed and implemented the Plastic-Free public education program. The program included youth art exhibitions, university short-video competitions, youth plastic-free short-video contests, youth plastic-free presentations, and community public education exhibitions. These activities reached over 2 million people both online and offline. On Douyin and WeChat Video Channels, public co-created short-video content under the plastic-free tag generated over 2 million views.

From February to April 2023 — The Plastic-Free Future project team consolidated project experiences and successfully implemented community empowerment in Changshengyuan Community, Changping District, Beijing. The project integrated community resources, involving local schools, the Innovation & Poverty Alleviation Center, and university student volunteers. From a child-friendly perspective, it provided youth with in-depth engagement in community climate actions, including plastic-free educational content, public exhibition planning, on-site environmental science explanations during exhibitions, and fundraising through second-hand sales, supporting ongoing youth environmental practice initiatives.

Green Cooling: From Concept to Action – Communication-Enabled Co-Creation Workshop & Launch of the “Penguin Rescue: Green Cooling Science Exhibition”

May 15, 2023 — The “Green Cooling: From Concept to Action – How Communication Supports Co-Creation” workshop and the launch of the “Penguin Rescue: Green Cooling Science Exhibition”, supported



by Energy Foundation China and hosted by iGDP, took place at Tiantongyuan Community Cultural and Art Center, Beijing. Nearly 400 participants attended both online and offline. The exhibition showcased creative green refrigeration projects by youth from the Huantian region, conveying ideas for low-carbon refrigeration practices in daily life. In addition, the exhibition featured youth-oriented displays on climate change impacts on global biodiversity, low-carbon lifestyle advocacy, and climate education, enhancing public understanding of refrigeration’s environmental impacts and promoting low-carbon behavior. Over 60,000 residents visited the exhibition.

Community-Based Low-Carbon Consumption Local Practice Sharing Session

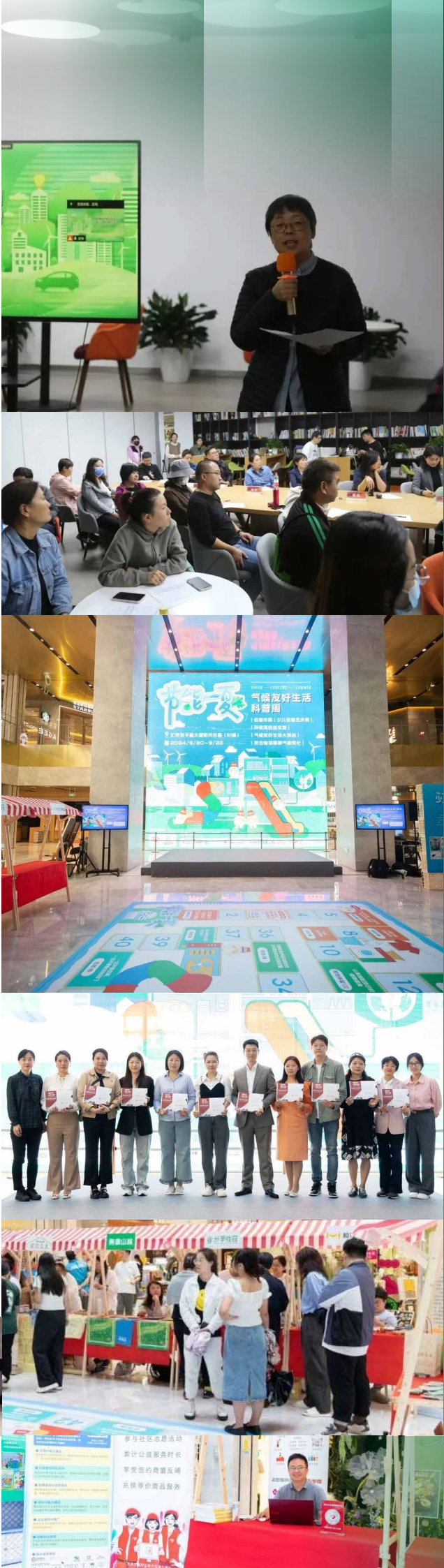
October 26, 2023 — With support from Energy Foundation China, iGDP hosted a community-based low-carbon consumption local practice sharing session. During the event, several grassroots government staff shared cases on volunteer team building, consumer behavior interventions, youth empowerment, community low-value recycling systems, and promoting low-carbon consumption among residents. These practical solutions demonstrated the important role of grassroots innovation in driving socially sustainable development.

“Energy-Saving Summer” Climate-Friendly Living Week

From September 20 to 22, 2024 — The “Energy-Saving Summer” Climate-Friendly Living Week, jointly hosted by the Jianwai Subdistrict Community Social Organization Union, Chaoyang District, Beijing, and iGDP, was successfully held at the Huijing Twin Towers, a new landmark green building. The event, themed on low-carbon living, combined exhibitions of local youth low-carbon art and interactive activities to inspire low-carbon lifestyles through art. It encouraged the public to adopt low-carbon habits and explore the possibilities of sustainable lifestyles. The event attracted numerous office workers and youth participants who engaged in hands-on experiences promoting a sustainable future.

About the Institute for Global Decarbonization Progress

The Institute for Global Decarbonization Progress (iGDP) is a non-profit think tank focusing on green and low-carbon development. Established in 2014, iGDP is committed to China’s decarbonization and the global effort to address climate change. iGDP provides policymakers, impact investors, and practitioners with forward-thinking solutions and knowledge products from an international perspective.





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