



推动低碳技术投资

Facilitating Climate Technology Investments

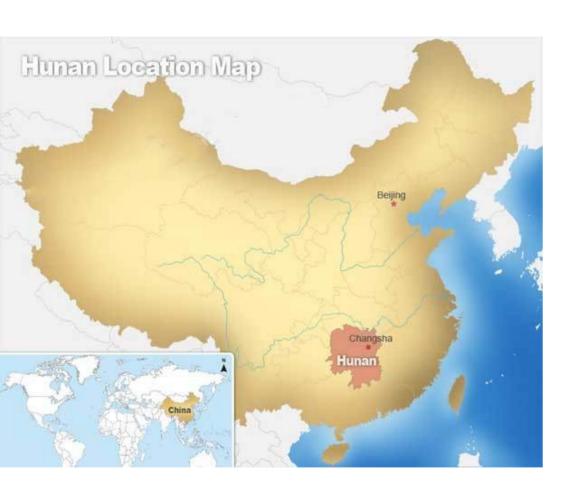


Investment

目录 CONTENTS

- 01 湖南的低碳发展 Low Carbon Development in Hunan
- 02 低碳经济发展中心的作用 Function of ILCC
- 03 推进气候技术投资 Mobilizing Climate-Tech
- 04 亚行合作项目 ADB Project in Hunan

01 湖南的低碳发展 Low Carbon Development in Hur



The GDP reached CNY 2.2 trillion, an average annual growth of 13.3%, ranking national top ten for five consecutive years. GDP达到2.2万亿,五年来持续排名全国前十之列。

In the past five years, Hunan has promoted the construction of "Two-Oriented Society" (TOS) and New Four Modernizations (NFM).

五年来湖南一直走两型四化的发展道路

1. 低碳发展条件

condition of low carbon development

- 平衡经济发展和应对气候变化
- To balance of economy development and climate change
- 发展阶段决定排放情况
- The characteristics of economic development stage decide that be a quite long period of intensive and high carbon emission.
- 化石能源的基础地位
- the dominance of fossil energy structure

2. 基础工作

Strengthen the basic work

- 出台了《湖南省"十二五"控制温室气体排放工作方案》和中期规划
- Enact the working plan to control the GHG emission in the Twelfth-Five Year Plan and the mid-term planning.
- 编制温室气体排放清单
- Develop the GHG emission inventory
- 编制完成《湖南省十大清洁低碳技术推广实施方案》
- Promote the development of Clean & Low Carbon Techs
- 将"十二五"碳强度下降指标分解到各市州
- Distribute the carbon intensity reduction target to the city government.

3. 低碳试点 Low-Carbon Pilot

- 湖南省已启动省内的低碳试点项目,共包括5个城市、3个园区、1个景区、8家企业。
 Hunan has recently launch its own low carbon pilot program, including 5 city, 3 industrial park, 1 scenery area and 8 enterprises.
- 低碳试点所要开展的主要工作包括:建立温室气体排放数据统计核算和报告制度、组织实施一批重大低碳项目、扩大舆论宣传。
 The main tasks include set up the GHG accounting and reporting system, initiate s serial of key projects, and enhance the propaganda.
- 低碳试点将成为湖南低碳发展的重要抓手以及国际合作的重点领域。
 The pilot program will be the key measure to achieve low carbon development and the main area of international cooperation.

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02 低碳经济发展中心的作用 Function o

作为湖南省首家低碳领域的非营利公益智库组织,今年六月由省发改委批准成立。

NPO thinking tank in low-carbon field in Hunan

打破传统咨询模式的壁垒,提供全新的独特顾问服务模式。

To change the traditional consulting modeling.

低碳转型杠杆: 咨询+实施。

Provides Low Carbon development leverage:

Consulting with Implementation



03 推进气候技术投资 Mobilizing Climate-tech Inve

政策和制度
Policy and
institutiona
l conditions



产业和金融
Industry and
financial
conditions

	Sub category	Details	
Policy and institutional conditions	Plans and targets developed through inclusive participatory processes	assessments to identify least-cost energy options	
		engaging civil society & private sector in energy planning process	
		developing low-carbon energy plans integrated into development goal	
	Regulatory instruments		
	Institutional organization and capacity to implement policies effectively	establishing institutions coordinating committees	
		building the capacity of government in policy areas	
		supporting public access to information	
		building the capacity of civil	
	Economic instruments		
	Laws supporting investment	developing or reforming laws in line with national plans	
		engaging civil society and the private sector in designing laws	
		communicating new laws to industry and consumers	

	Sub category	Details
Industry and financial conditions	Project developer's capacity to develop bankable projects	Capacity building and special training support for project conceptualization and technical design environmental and social impact assessments; stakeholder consultations
	Engineering capacity	
	Knowledge of resource availability	resource assessments of renewable energy potential at different level awareness campaigns and work-shops to provide information
	Presence of a support industry and enabling infrastructure	
	Stable financial sector	
	Financial sector capacity for supporting low-carbon energy	

04亚行合作项目 ADB Project in Huna

The technical assistance (TA) will seek to pilot a center that will help coordinate assistance in Asia and the Pacific to accelerate the development and deployment of climate change mitigation and adaptation technologies.

The project will be undertaken jointly with the UNEP and other partners, with funding support expected from the GEF and other sources.

The TA is implemented in the form of projects cluster.

Sub A: Integration of climate technology financing needs into national development strategies, plans, and investment priorities

Sub E: Project
 management

Projects Cluster

Sub B: Promotion of direct investment in priority climate technology projects

Sub D: demonstration of an assisted broker model for transfer of low-carbon technologies to Asia and the Pacific

Sub C: Promotion of investment in climate technology products through venture capital funds

Project	Fund (\$)	Source:	■ Climate Change Fund
Sub A	1, 500, 000	100	■ Technical Assistance
Sub B	1, 000, 000	1%	Special Fund-other source
Sub C	6, 692, 000	48%	■GEF
Sub D	6, 500, 000		Asian Clean Energy Fund under Clean
Sub E	300, 000		Energy Financing Parnership Facility VITO-Flemish Institute
Total	15, 992, 000		for Technological Research NV

Description of Sub A

Sub A will provide expert services to incorporate climate technology considerations into the ADB country partnership strategy (CPS) and country operation business plan (COBP) processes and national or sub-national development plans, with the aim of bridging climate technology-related gaps and opportunities identified by environment and other line agencies, and investment programs coordinated by economic and planning ministries. Sub A will also promote the consideration of climate technology transfer and diffusion in national development planning and policymaking, which will help DMCs access international funding, including the UNFCCC's Green Climate Fund.

In the People's Republic of China (PRC), TA 8109 works on mainstreaming of climate technologies into the provincial development planning in Ningxia Hui Autonomous Region (Ningxia) and Hunan Province (Hunan).

Procedure of Sub A

Overview Procedure for Technology Financing Needs Assessments

Step 1: Organization of assessment Step 2: Development priorities Step 3: Prioritizing (sub)sectors Step 4: Technology prioritization Step 5: Technology assessment Step 6: Making investment plan

Overview of the organization of Technology Financing Needs Assessments

Step 1: Organization of assessment

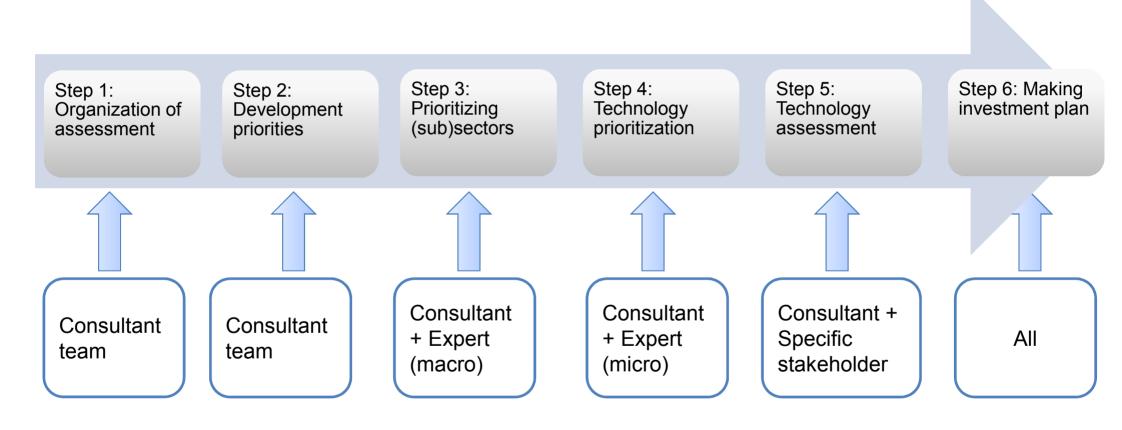
Step 2: Development priorities Step 3: Prioritizing (sub)sectors Step 4: Technology prioritization Step 5: Technology assessment Step 6: Making investment plan

Determine working mode

Determine the participating institutions and experts

Participants list

Steps Assigned for Relevant Role



Overview of the Procedure for Development Priority Identification

Step 1: Organization of assessment Step 2: Development priorities Step 3: Prioritizing (sub)sectors Step 4: Technology prioritization Step 5: Technology assessment Step 6: Making investment plan

Balance of economy development and climate change in Hunan

Low-carbon development in Hunan

Provincial finance environment on climate change

List of development priorities

Overview of the Procedure for Sectors Prioritization for Mitigation

Step 1: Organization of assessment Step 2: Development priorities Step 3: Prioritizing (sub)sectors Step 4: Technology prioritization Step 5: Technology assessment Step 6: Making investment plan

Identify lowcarbon sectors for mitigation Identify significant emission sectors

Integrate long list of (sub)sectors

Finalize short list of (sub)sectors Short list of prioritized (sub)sectors for mitigation

Overview of the Procedure for Sectors Prioritization for Adaptation

Step 1: Organization of assessment Step 2: Development priorities Step 3: Prioritizing (sub)sectors Step 4: Technology prioritization Step 5: Technology assessment Step 6: Making investment plan

Identify most effective sectors for adaptation

Determine long list of (sub)sectors

Finalize short list of (sub)sectors Short list of prioritized (sub)sectors for adaptation

Overview of the Procedure for Technology Prioritization

Step 1: Organization of assessment Step 2: Development priorities Step 3: Prioritizing (sub)sectors Step 4: Technology prioritization Step 5: Technology assessment Step 6: Making investment plan

Determine the technology

Determine the assessment criteria and process

Finalize technology short-list

Prioritized list of technology for priority (sub)sectors

Overview of the Procedure for Technology Assessment

Step 1: Organization of assessment Step 2: Development priorities Step 3: Prioritizing (sub)sectors Step 4: Technology prioritization Step 5: Technology assessment Step 6: Making investment plan

Evaluation process

Access to specific stakeholders for deep communication

Result analysis

Technology list for available investment

Overview of the Procedure for Making Investment Plan

Step 1: Organization of assessment Step 2: Development priorities Step 3: Prioritizing (sub)sectors Step 4: Technology prioritization Step 5: Technology assessment

Step 6: Making investment plan

Investment analysis Proposing solutions

Develop timeline

Investment path recognition

Status

Work with other sub projects

• Sub B: supporting the use of clean energy and climate resilient technologies in ADB pipeline investment projects.

• Sub C: advisory support to selected VC funds

List of low carbon technologies



Work with local government

- Reflection in consistant provincial policy and programme.
- Proper activities: Demonstration projects and low carbon incubator





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