



# **HUNAN CTPM - THE CLEAN ENERGY TECH INTERNATIONAL HUB ON THE WAY**

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# Overview

- What is CTPM?
- Benefits from CTPM for Hunan
- Key findings of January consultation mission
- Clean Energy Technology Development Support Framework
- Proposed actions and recommendations
- Elaboration on actions and identified interventions

# What is CTPM?

- CTPM in Hunan: A comprehensive set of actions to achieve creation of a vibrant and innovative Clean Energy technology cluster, to mitigate greenhouse gas emissions, and to improve the environment in Hunan.

# Hunan's benefits from choosing CTPM

- Technological innovation – creation of a dynamic & innovative Clean Energy technology cluster in Hunan of international allure.
- Jobs and investment – position Hunan to take advantage of an estimated \$ 5.7 trillion market globally
- Low-cost mitigation – with flexible policies, significant mitigation potential at negative costs.
- Environmental benefits – an estimated \$ 2-9 billion in avoided health costs from air pollution in Hunan

# Approach – 5 journeys, 5 sets of barriers



# Key findings (1)

- Strong support for low carbon development in Hunan
- Significant ongoing government support including funding, procurement policies, tax breaks, identification of prioritized technologies, etc.
- However, some barriers persist that may require actions:
  - Early stage technology companies (capacities, funding)
  - Clean Energy technology users, especially SMEs (financing, risk perception, awareness/focus)

## Key findings (2)

- Private sector needs
- Interest in training of government officials on low carbon development
- Introduction of best policy practices from other countries
- Interest in support for financing of Clean Energy technology investments

# CT Development Support Framework

Topics	Early stage CTs 初创早期	Middle stage CTs 发展中期	Mature CTs 成熟期
Company readiness 公司能力建设	CT Accelerator / Bootcamp		
	CT Business incubator		
Finance 金融扶持	Clean Energy Technology VC fund		
		Fin. products (especially credit line)	
Market 市场对接	Clean Energy Technology marketing platform		
		Government procurement policies	
			Voluntary approaches
Incentives 鼓励机制			Automatic offsets



# Proposed first stage actions

- Primary focus on climate technology enterprises
- Creation of the Hunan Cleantech Venture Capital Fund.
- Creation of the Hunan Cleantech SME/Start-up Accelerator.
- Creation of the Hunan Low-Carbon Technology Incubator.
- Creation of the Hunan CleanTech Network and Market Platform.
- Creation of a long term partnership between ADB and Hunan on addressing climate change.

# Proposed second stage actions

- Primary focus on promoting climate technology usage
- Establishment or designation of a coordinating organization
- Monitoring and evaluation support
- Training and Technical Assistance – Climate change TA Facility.
- Pilots of selected instruments from climate technology development support framework such as VA and automatic offsets
- Establish a financial support scheme (credit line)
  - Differentiating in levels of support between new climate technologies and existing climate technologies
  - With or without ADB finance
  - With or without co-finance

# Recommendations

- Create a long term partnership between ADB and Hunan for support fully in line with Hunan policy.
  - Basis for concrete immediate actions
  - Long-term initiatives
- Designate or create an organization to provide among others, a one-stop shop for enterprises - map out a support path using the various initiatives
- Start implementation of the first stage actions
- Engage in design of second stage actions.

# Potential ADB support

- Assist in the design of the CTPM and parts thereof.
- Design CTPM so that synergies between actions are realized.
- Assist in the implementation of specific proposed actions (accelerator, incubator, VC, market place).
- ADB financing and use of co-financing at favorable terms.



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