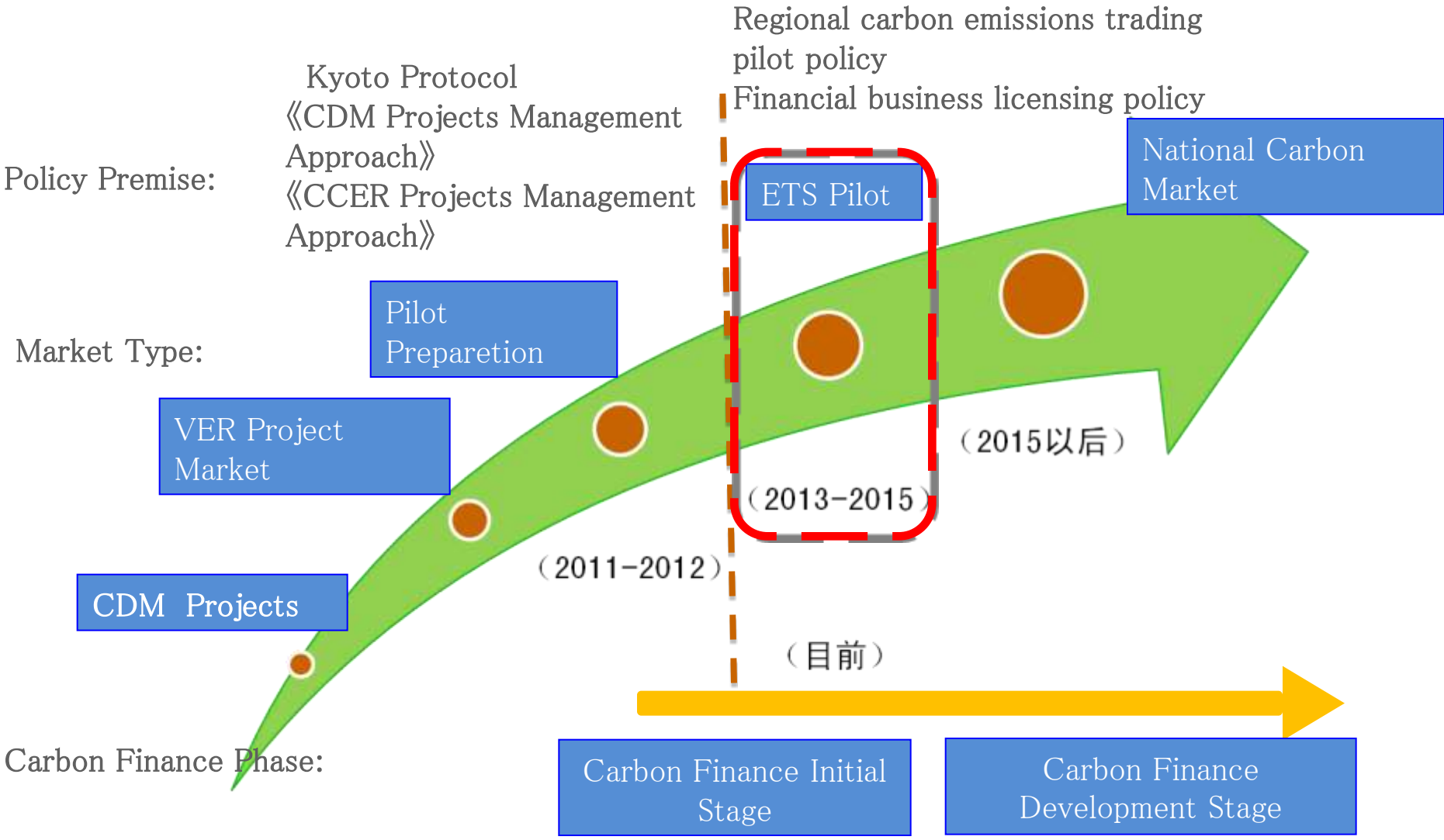
International Partnership for Wastewater Technology Transfer

China Beijing Environment Exchange (CBEEX)

United Nations Environment Programme (UNEP)

China Development Gateway (CnDG)

China Carbon Market Development

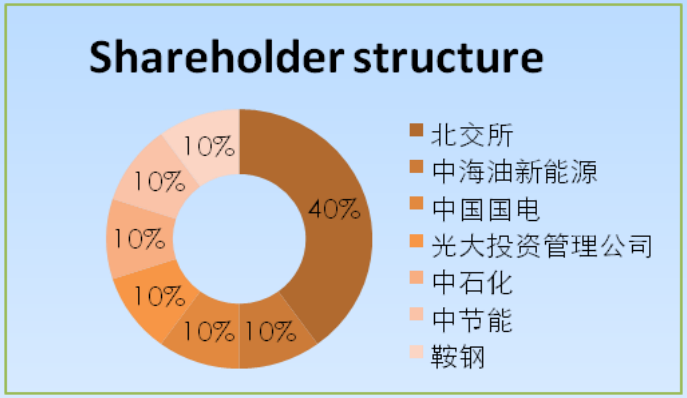


Introduction of CBEEX

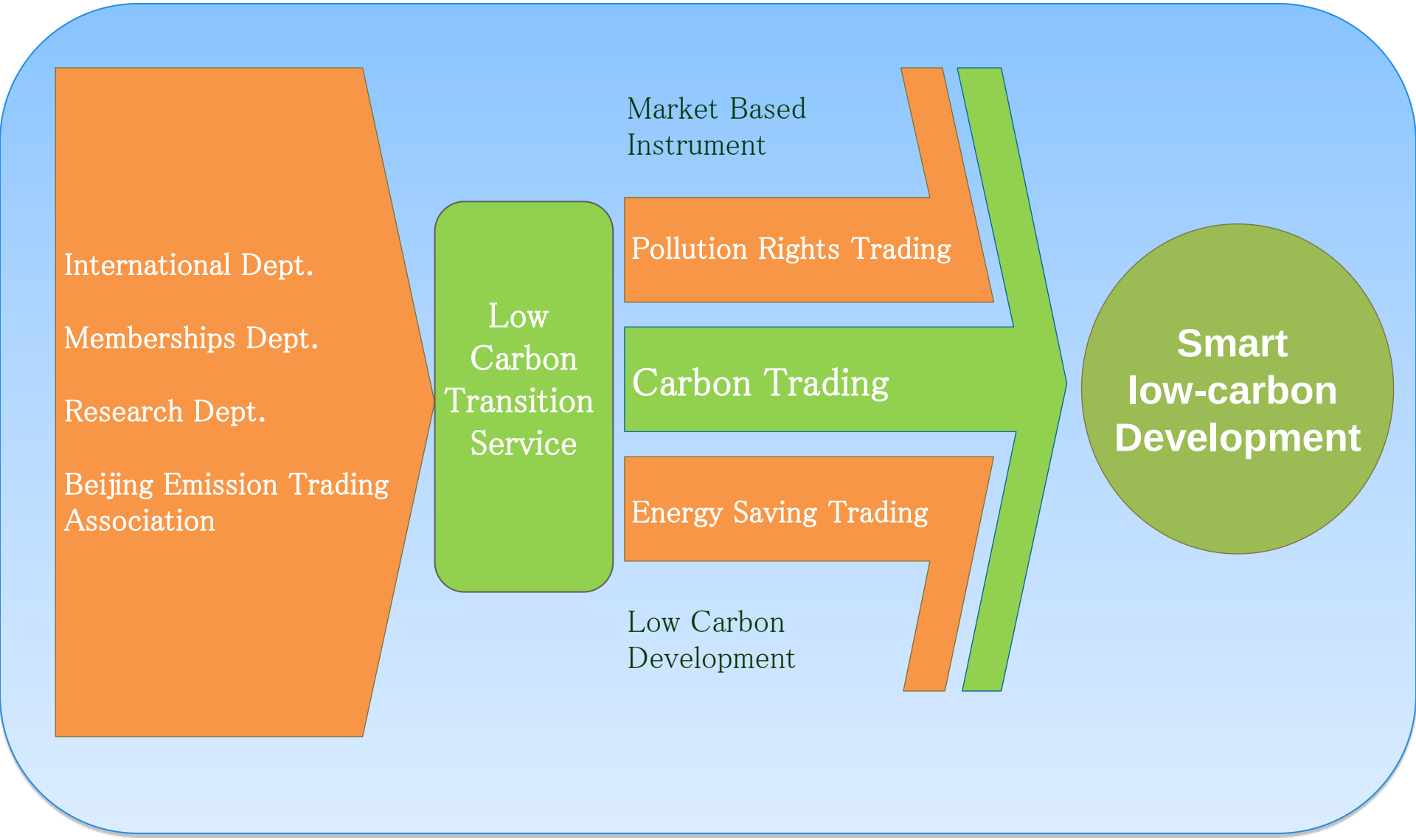
CBEEX was founded on 5th August, 2008

◆Registered Capital: 200 million RMB;

◆Shareholders : China Beijing Equity Exchange; China National Offshore Oil Corporation(CNOOC) New Energy Investment Co., Ltd. , China Guodian Corporation, China Everbright Investment Management Corporation;Sinopec; Ansteel and China Energy Conservation and Environmental Protection (CECEP)



Introduction of CBEEX



Introduction of CBEEX

CBEEX hosts the Regional Hub of GW2I

◆CBEEX now hosts the Regional Hub of the UNEP Global Wastewater Initiative launched in 2013 by UNEP Executive Director Achim Steiner - a global multi-stakeholder platform to address wastewater management

Background of the Partnership

The project is funded by UNEP to facilitate the establishment of the International Partnership of City Waste Water Technology Transfer (IPCWWTT) as means of promoting south-south cooperation.

Specific objectives:

1) mobilize resources from local authorities and private sectors; and
2) bring together countries where wastewater technologies exist and link them with countries in need of these technologies for experience sharing and technology transfer.

Outputs

1. Regional Hub of GW2I established;
2. Field visits in 22 cities and counties in China with different weather and water conditions and over 40 cost-effective technologies screened and assessed for suitability of transfer;
3. The needs and gaps analysis of wastewater treatment of Africa was completed as well as Cambodia.;
4. Two international conferences with 200+ participants and key stakeholders such as MEP China and most developing countries ambassadors;
5. Project research report and technologies report;
6. Bi-lingual project website.

Introduction of the Research Report

The research report aims to

1. Understand the conditions and needs of wastewater treatment of developing countries ;
2. Investigate wastewater treatment technologies in china:

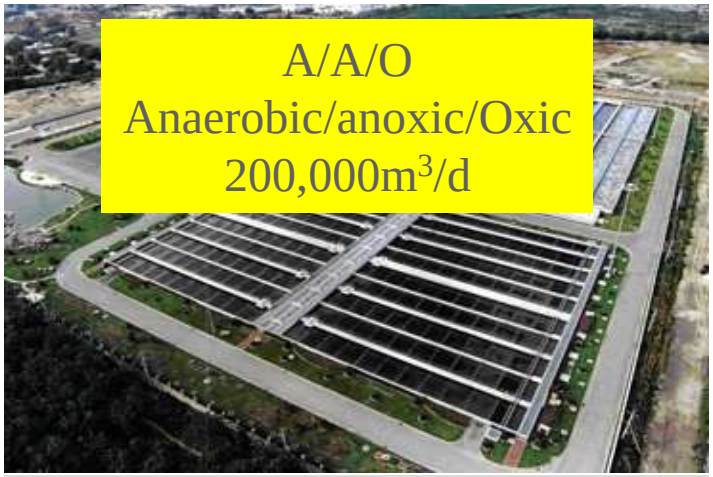
- that has been successfully applied and
- identify suitable technologies.

3. Advise on transfer mechanisms

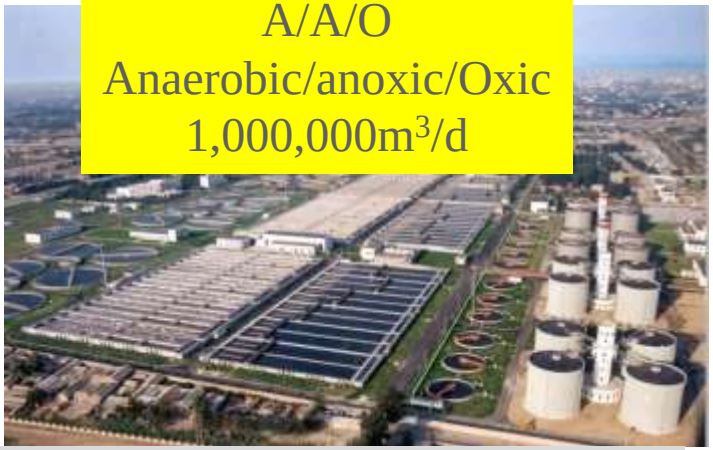
Introduction of the Research Report

Under this partnership, we have invited experts from Beijing Municipal Research Institute of Environmental Protection and Tongji University to investigate the wastewater treatment situation based on northern and southern China into three categories including urban, rural and industrial wastewater treatment;

More than 40 wastewater technologies, that are suitable for transferring to other developing countries have been selected.



清河污水处理厂
Qinghe Sewage Treatment Plant



高碑店污水处理厂
Gaobeidian Sewage Treatment Plant

Conclusion of the Research

Poor level of technology and economic conditions lead to:

- LACK OF BASIC WASTEWATER TREATMENT AND NETWORK INFRASTRUCTURE
- SHORTAGE OF TECHNICAL AND MANAGEMENT CAPABILITY

Key measures required are:

- SUITABLE TECHNOLOGIES FOR ADOPTION
- NEED FOR INFORMATION AND SCIENTIFIC EXCHANGE
- CAPACITY BUILDING
- PARTICIPATION OF GOVERNMENT AND PRIVATE SECTORS.

Actual investment and treatment technology costs:

- influenced by site specific characteristics and country conditions

Conclusion of the Research

Selection of suitable technology

- USING ECONOMIC CRITERIA ALONE IS NOT ADEQUATE. OTHER FACTORS SUCH AS SIMPLE AND STABLE PROCESS, LOW MAINTENANCE, LOW CHEMICAL AND ENERGY CONSUMPTION AND SKILL REQUIREMENT ARE ALSO IMPORTANT.

Funding :

- PLANNING AND IMPLEMENTING WASTEWATER TREATMENT INFRASTRUCTURE
- NEW CREATIVE FUNDING MODEL BY FINANCIAL ORGANISATIONS AND DEVELOPED COUNTRIES TO PROVIDE FUNDS FOR WASTEWATER TREATMENT DEVELOPMENT AND NATURAL RESOURCES PROTECTION.

Conclusion of the Research

CHINA EXPERIENCE AND TECHNOLOGY

- HAS EXPERIENCED SIMILAR ENVIRONMENTAL PROBLEMS AS THOSE FACED BY MANY AFRICAN COUNTRIES AND OTHER DEVELOPING COUNTRIES
- HAS RELEVANT EXPERIENCE AND TECHNOLOGIES TO CONTRIBUTE TO THE STRENGTHENING OF SINO-AFRICA WASTEWATER TREATMENT TECHNOLOGY TRANSFER AND SERVICE VIA:
  - INFORMATION EXCHANGE
  - PROJECT PLANNING AND IMPLEMENTATION
  - TECHNICAL AND BUSINESS COOPERATION
  - DEVELOPMENT OF ADVANCED WASTEWATER TREATMENT
  - ASSISTANCE IN THE PROTECTION OF THE ENVIRONMENT ECOLOGY

Outcomes of the project

International Partnership of City Waste Water Technology Transfer (IPCWWTT) has been build up;

Regional Hub of Global Wastewater Initiative for South-South Cooperation was founded in CBEEX;

Cambodia


Ministry of Industry & Handicraft


THAILAND
LAOS
Ouddar Mean Chey
Preah Vihear
Banteay Mean Chey
Rattanakiri
Siem Reap
Steung Treng
CAMBODIA
Battambang
Tonle Sap Lake
Pailin
Kratie
Posat
Kampong Thom
Mondulkiri
Kampong Chhnang
Kampong Cham
Koh Kong
PHNOM PENH
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Kandal
Takeo
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Kep
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Cambodia

Overview of Waste Water System in Cambodia

- Waste water discharging in Cambodia are mainly from:
  - Industrial/production/businesses
  - Household (sewage waste water)
- Most of waste water from all sources, both untreated or not properly treated, are mixed together when discharging to public sewage. This happens because:
  - Urbanization is not well planned
  - Lack of capacity and funding

Cambodia

Challenges

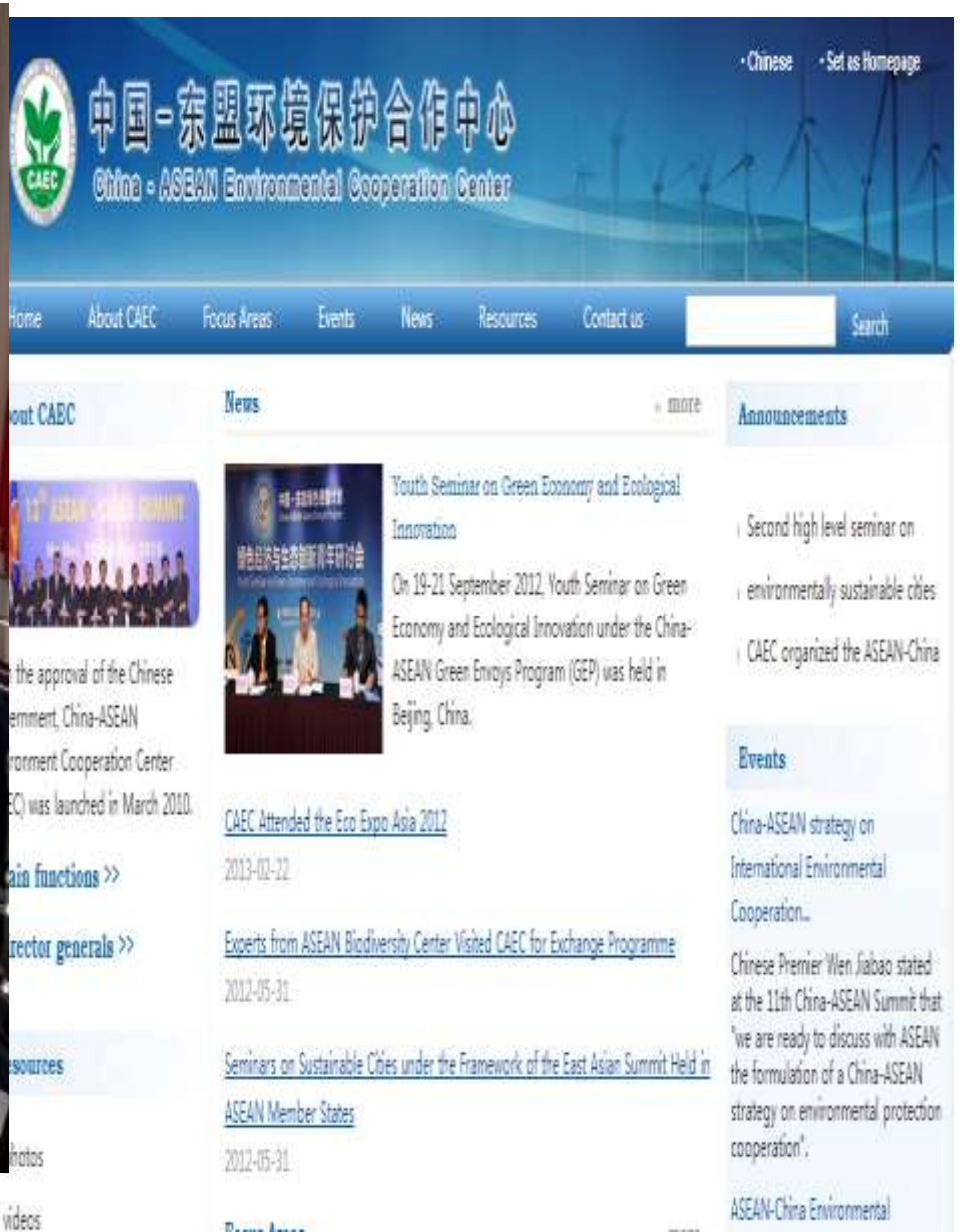
- Waste water from both industries/businesses and household sources is not treated before discharging to public sewage system which is currently in limited capacity
- For the coastal provinces, this waste water is discharging directly to public channel/sea without any treatment
- Underground water quality is being under threat from contamination caused by poor solid waste landfill
- Due to the fast economic development and increasing urbanization, natural treatment reservoirs mainly in the urban areas have been filled for land reclamation, thus resulting in direct flow of waste water to the rivers and sea.
- Limited awareness of the people in disposing the wastes, partly due to the lack of education and media engagement.

Integration of other platforms

Foreign Economic Cooperation Office(FECO) under China Ministry of Environment Protection.

Facilitate the communication and cooperation of environmental protection between China and other countries, boost the strategies of “going global” and “bringing in” for environmental technologies.

Integration of other platforms



北京环境交易所

CHINA BEIJING ENVIRONMENT EXCHANGE

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- 排污权交易中心
- 节能量交易中心
- 低碳转型服务中心

北京市碳排放权电子交易平台

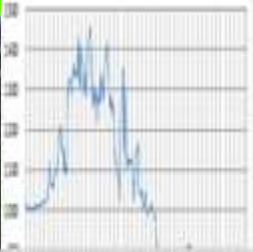
- 中国合同能源管理投融资交易平台
- VER电子交易平台
- 熊猫标准
- 个人绿色档案
- 碳排放计算器

污水处理技术转移南南合作伙伴项目

中碳指数体系

市值指数 流动性指数

739.15



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海南49.5MW风电VER项目 A Hainan 49.5MW Windpowe	2013-01-10
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CDM项目 更多>>

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日期	成交量(吨)	成交均价(元/吨)	成交额(元)
04-08	16000	50.39	806,300.00
04-07	5000	51.00	255,000.00
04-03	1082	51.00	55,182.00
04-23	4894	50.83	248,775.20
04-22	539	50.00	26,950.00
04-21	4817	51.58	248,449.00

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- First Climate (Beijing) Co., Ltd.

CHINA BEIJING ENVIRONMENT EXCHANGE
北京环境交易所

Wastewater Technology Transfer Partnership

China's offshore waters heavily polluted: report

The majority of China's offshore sea areas have unhealthy ecosystems due to heavy pollution, a report from the State Oceanic Administration (SOA) has indicated.

- Company fined 3 mln yuan for polluting desert
- Call for more action to keep Beijing's water supply clean
- Cause of NW Chinese city odorous tap water identified

more>>

Knowledge & Reports >>

Wastewater facts sheet

- Water for a sustainable world (Full text)
- Sick Water?
- Clearing the Waters

Gaps & Needs >>

African ministers call for water and sanitation financing

- Lack of safe water impede Indonesia's quest for sustainable economic growth
- Brazil's largest city may face drastic water

Project Backgrounds >>

The Partnership of City Waste Water Technology Transfer aims to promote the communication among cities of China and Brazil with other developing countries to mobilize more resources from local authorities and private sectors with the assistance of international organizations.

China's Situation & Technology >>

Beijing Gaobeidian Wastewater Treatment Plant

It is the largest secondary wastewater treatment plant of 16 municipal wastewater treatment plants in Beijing with a total investment of 1.544 billion RMB and a total area of 68 hectares.

- Printed circuit board (PCB) wastewater treatment
- Beimashe Wastewater Treatment Plant
- Catalytic iron tech in industrial wastewater treatment
- Wuqia village Wastewater Treatment Plant

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Experts' Vision >>

Yangtze water not a cure-all for Beijing's thirst

- Beijing's "southern water" safe and clear
- Water and Wastewater Treatment in Africa – Current Practices and Challenges

Firms & Techs Matchmaking >>

Djibouti-Ethiopia water project launched

- Germany to fund Kenya's water supply, health sectors
- China sends more fresh water to thirsty Maldives

Partners >>

China Beijing Environment Exchange

UNEP
UNEP

Next Steps

- **Continue to promote the international partnership and technologies transfer through the regional hub;**
- **Organize Chinese enterprises to visit developing countries in need of the technologies –business matching missions;**
- **Invite representatives from other developing countries to visit China;**
- **Mobilize resources to establish pilots in countries such as Cambodia ;**
- **Combine other platforms like China-ASEAN Environment Cooperation Center;**
- **Partnerships, partnerships and partnerships .**

Contact

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QR Code: