

US EPA Greater China Program



US Environmental Protection Agency
Office of International & Tribal Affairs
Washington, DC

1

Greater China



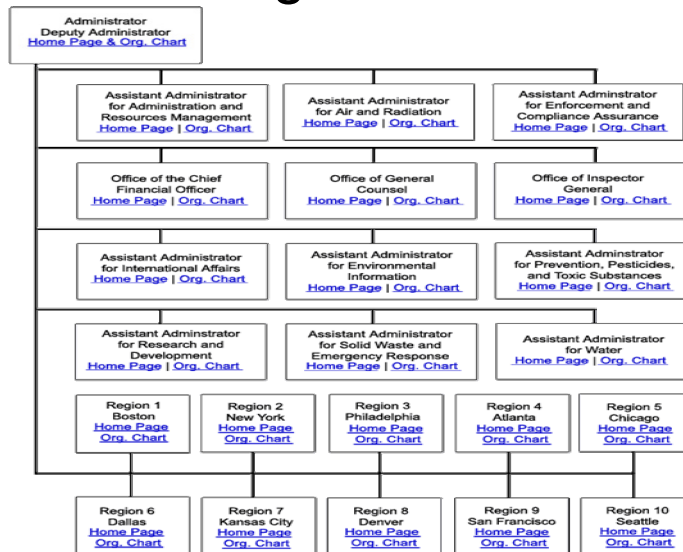
2
2

Overview

- EPA's focal areas for engagement with China
- Cooperation with US partners
- Cooperation with Chinese partners
- Selected projects and initiatives in China

3

Organization



4

EPA's International Priorities Center Around 6 Objectives:

- Improve urban air quality
- Improve access to clean water
- Reduce exposure to toxic chemicals (including mercury)
- Reduce hazardous waste and improve waste management (for, e.g., hazardous, electronic and medical waste)
- Limit global greenhouse gas emissions and other climate forcing pollutants
- Build strong environmental institutions and legal structures

5

EPA's Partners for Cooperation

Major US Partners

- US Department of State
- American Institute in Taiwan
- US Trade & Development Agency
- US Agency for International Development

Other Key Partnerships

- World Bank and Asian Development Bank
- Asia Pacific Partnership on Clean Development & Climate (APP) with Australia, Canada, India, Japan, Korea (Sector Task Forces on Buildings & Appliances, Cement, Aluminum, Renewable Energy/Distributed Generation, Power)
- US-China Strategic & Economic Dialogue on Clean Energy and Climate Change (with US Department of Energy, US State Department, US Department of Commerce) (Clean Air Action Plan, Clean Water Action Plan; initiating project with NDRC on China's inventory of CO2 emissions)

6

China's Ministries with responsibilities for environmental protection

Ministries	Function
Ministry of Environmental Protection (MEP)*	Environmental protection; Environmental Impact Assessment
National Development & Reform Commission (NDRC)*	"Super-Ministry" that controls and regulates the macro-economy and future planning; sets energy targets in Five-Year Plans; responsible for climate change policy.
Ministry of Housing & Urban-Rural Development (MHU-RD)*	Sets national standards for construction projects, including buildings' energy efficiency
Ministry of Science & Technology (MOST)*	Coordinates science and technology activities throughout China
Ministry of Water Resources (MWR)*	Integrated management of water resources; water conservation
Administration of Quality, Supervision, Inspection and Quarantine (AQSIQ)*	Quality, metrology, commodity inspection, health quarantine, import-export food safety, certification and accreditation, standardization, administrative law enforcement.
Ministry of Industry and Information Technology (MIIT)	Manages industrial energy conservation, clean ₇ production, and environmental protection

EPA's Top Counterparts and Collaboration Mechanisms

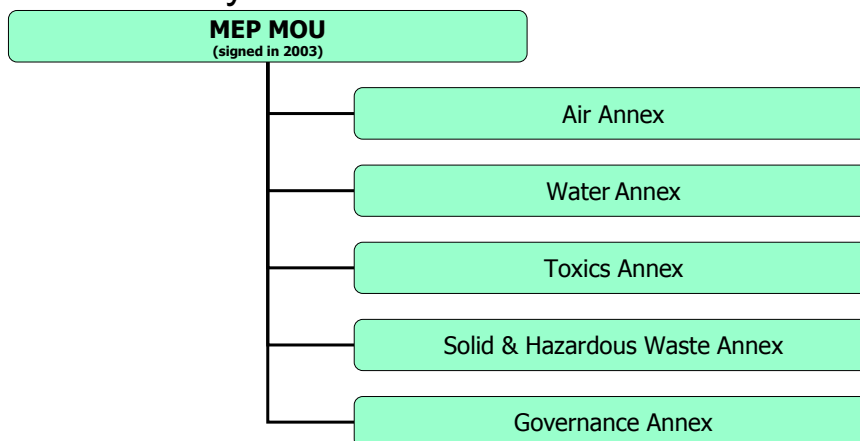
- (1) Ministry of Environmental Protection
 - 2003 Memorandum of Understanding
 - 10 Year Framework
- (2) National Development and Reform Commission
 - Strategic and Economic Dialogue
 - 2009 MOC
- (3) Environmental Protection Administration Taiwan
 - EPA-AIT 1993 MOU and Taiwan Relations Act

EPA Collaboration with MEP (1)

- Direct one-on-one relationship
- MOU Annexes address key environmental issues
- No funding associated with the MOU
- JCEC meets biennially, chaired by EPA Administrator & MEP Minister
 - Review progress and approve 2-year work plans
 - NPMs provide technical lead for implementation work on each annex
- OITA organizes and coordinates JCEC event, papers and meetings; sets vision & objectives for event
 - AA/DAA represents EPA at JCEC planning meetings with MEP
 - OITA provides direction and support to Program Offices

9

Key Mechanisms (1) Ministry of Environmental Protection



- Joint Commission on Environmental Cooperation (biennial meetings)
- Each annex has a work plan which is approved during JCEC by the Administrator and MEP minister or their designees.

10

EPA's Clean Water Program for China (1)

- Key Partnerships
 - Ministry of Environmental Protection (MEP)
 - China's Ministry of Water Resources (MWR)
 - China's Ministry of Housing & Urban-Rural Development (MoHURD)
 - US-China Strategic & Economic Dialogue, 10-Year Framework on Energy and Environment, Clean Water Action Plan
 - US TDA
- Key Accomplishments
 - In Tianjin, EPA provided technical assistance and best waste management practices for source water protection for the Yuqiao reservoir, leading to demonstration of village-wide household digesters and nutrient management plans to manage human and animal wastes
 - Collaborated with MOST to share drinking water information and share common research interests
 - With US TDA, conducted workshop series for MEP and MOHURD on policies and technologies for water management
 - Launching new project with MEP to optimize enforceable policies for clean water

11

Clean Air Program for China (1)

- Key Partnerships
 - Ministry of Environmental Protection (MEP)
 - National Development & Reform Commission
 - US-China Strategic & Economic Dialogue, 10-Year Framework on Energy and Environment, Clean Air Action Plan
 - Methane to Markets
- Key Accomplishments
 - EPA and Shanghai EPB are launching AIRNow-International air quality on-line, real-time reporting, for Expo 2010 in Shanghai
 - Collaborated with NDRC to develop a sulfur dioxide (SO₂) trading program for coal-fired power plants
 - Assisted China to develop effective air quality management plan for the Beijing Olympics

12

Toxic Chemicals Reduction (1)

- Key Partnerships
 - Ministry of Environmental Protection (MEP)
 - China's Chemical Registration Center
 - Institute for the Control of Agrichemicals, Ministry of Agriculture (ICAMA)
- Key Accomplishments
 - Assisted MEP to develop Best Environmental Practices/Best Available Techniques to reduce dioxins/furans emissions from cement kilns by improving kiln combustion efficiency
 - EPA held several workshops and training programs on technical and scientific training for ICAMA staff on policies and procedures for conducting both human health and ecological risk assessments of pesticides
 - Launching new project with MEP and China's vinyl chloride manufacturing (VCM) association to reduce mercury emissions from manufacturing the VCM precursor of polyvinylchloride (PVC) from acetylene

13

Waste Management Program (1)

- Key Partnerships
 - Ministry of Environmental Protection (MEP)
 - US Department of Commerce, International Technologies Agency and US Commercial Service
- Key Accomplishments
 - Assisted MEP to develop Best Environmental Practices/Best Available Techniques to use hazardous wastes as a substitute fuel for cement production
 - Assisted MEP to pilot a mercury reduction program at two hospitals in Beijing, which reduced mercury emissions from combustion-base incinerators through source separation of mercury-containing wastes
 - Launching new project with MEP reduce China's demand for mined mercury through recovery/recycling of commodity-grade mercury from by-products of non-ferrous metals smelting, recycling/processing of mercury-containing wastes, and recovery from spent mercury cells used as catalysts in industrial processes like VCM and chloralkalai production

14

Environmental Governance (1)

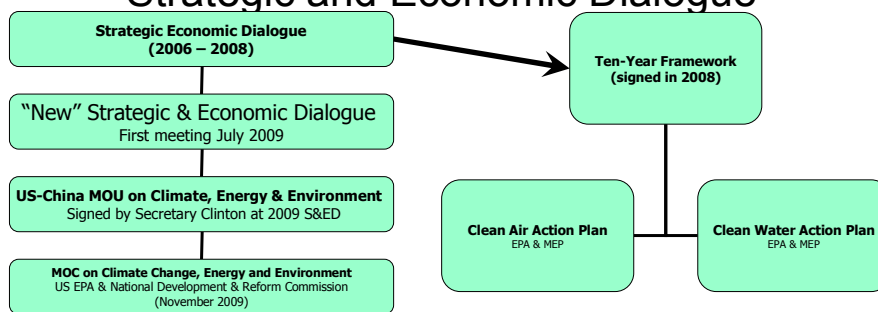
法律制度

- China is developing laws, regulations, and standards
- Lacks implementation and enforcement mechanisms (i.e., MRV)
- Overlapping/unclear authorities
- State-level ministries lack authority and resources
- Under-developed legal apparatus

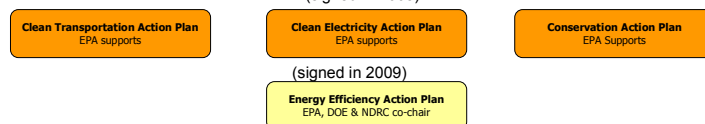
15

Key Mechanisms (1 & 2)

Strategic and Economic Dialogue



Other Action Plans under Ten-Year Framework



- Four U.S. cabinet agencies participate in S&ED TYF: EPA, Departments of State, Commerce, Energy and Treasury.
- SED met five times during the Bush Administration between Dec 2006 and Dec 2008 (SED I to SED V).

16

Key Mechanisms (3) American Institute in Taiwan Environmental Protection Administration Taiwan

- EPA-AIT MOU on Environmental Collaboration in Taiwan - 1979 Taiwan Relations Act
- EPA-AIT IAG funds EPA to collaborate with Taiwan on environmental issues
- OITA manages strategy, resources, development, and implementation
- Topics have included air, climate, energy, water, soil, mercury, atmospheric transport, governance
- Environmental Protection Administration Taiwan valuable as expert, partner, and resource to advance environmental goals for the region.
- Newly identified topics include: site remediation, ports emissions reduction, water regulation, emissions reduction from electronics industry, monitoring station on Mt. Lulin and air emissions modeling collaboration.

17

Upcoming Events – Mainland China

- **MEP**
 - Renewal of MEP-EPA MOU
 - US hosts 2010 JCEC
 - Last meeting was 2007 in China
 - Administrator expected visit to China (second trip to Asia)
- **Strategic and Economic Dialogue**
 - May - TYF Working Meeting, DC
 - Late May - S&ED Beijing
- **EPAT Minister Shen** expected visit to Washington

18

OITA China Team



Michelle DePass
Assistant Administrator
Office of International Affairs
美國環保局副局長(國際事務部)



Suzanne Giannini-Spohn, Ph.D. 芬金妮
Program Manager for Greater China
Office of International Affairs
美國環保局國際事務部亞洲區組長 (China)
202-564-3907 giannini-spohn.suzanne@epa.gov



Mark Kasman 麥克卡斯曼
Senior Advisor for Asia-Pacific Region
Office of International Affairs
美國環保局國際事務部亞洲區區長
202-564-2024 kasman.mark@epa.gov



Luis Troche 陸毅
Program Manager for Greater China/Taiwan
Office of International Affairs
美國環保局國際事務部亞洲區組長 (China/Taiwan)
202-564-2870 troche.luis@epa.gov



Justin J. Harris 韓杰亭
Program Specialist
Office of International Affairs
美國環保局國際事務部分析師
202-564-8083 harris.justin@epa.gov