Methane to Markets

Partnership in Action U.S. and China Landfill Gas to Energy Project Collaboration

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Main content

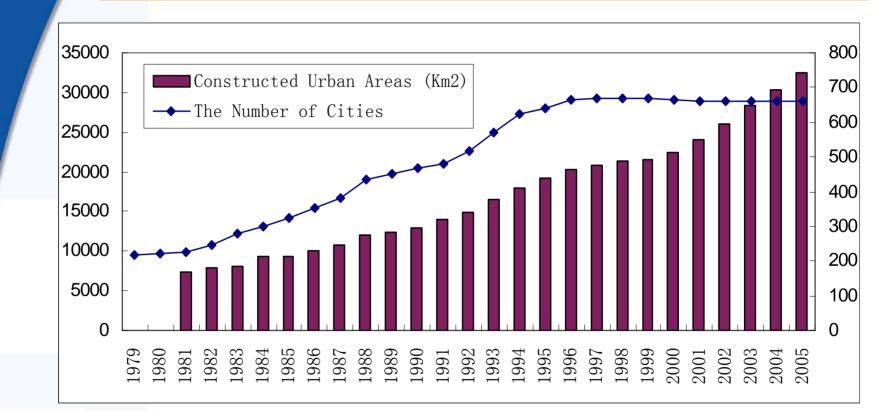
1.General situation of MSW Treatment
2.Landfill development
3.Landfill Data Collection and evaluation
4. LFG Projects in the future







Cities and Urban areas in China

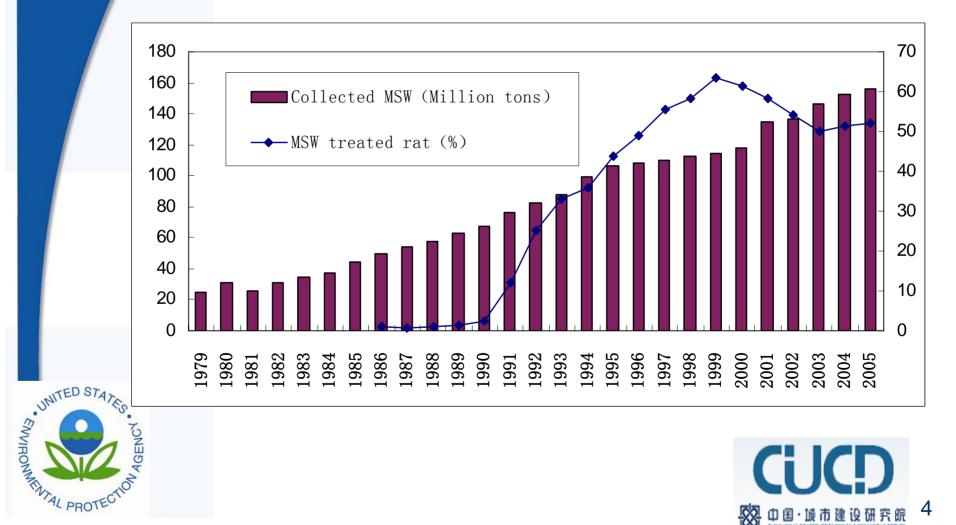








MSW collection and disposal in China



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MSW Treatment capacity statistics from 2000 to 2005

	2000	2001	2002	2003	2004	2005
total	555	741	651	574	559	477
Landfill sites	484	571	528	457	444	365
Composting Facilities	41	134	78	70	61	46
Incineraion facilities	23	36	45	47	54	66



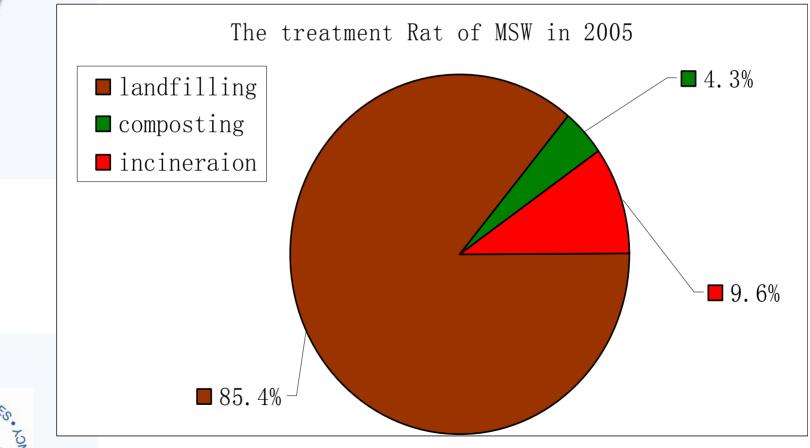


MSW Treatment capacity statistics from 2000 to 2005

	2000	2001	2002	2003	2004	2005
total(1000t/a)	193.6	224.7	215.5	218.6	238.5	257.054
Landfill (1000t/a)	181.9	192.8	188.5	187.1	205.9	212.627
Composting Facilities (1000t/a)	8.9	25.5	16.8	16.5	15.3	11.767
Incineration (1000t/a)	2.9	6.5	10.2	15.0	16.9	32.21



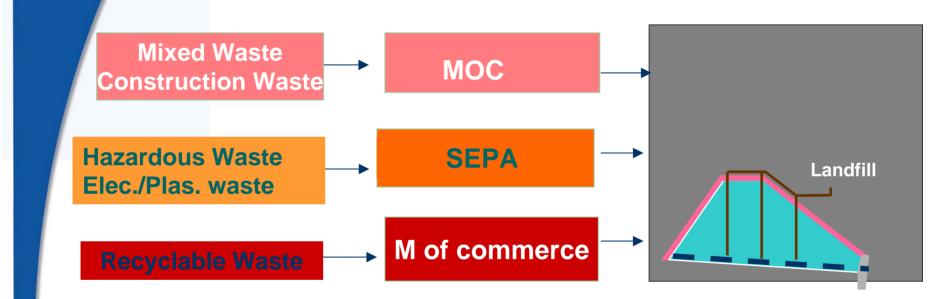
MSW Treatment Rate in 2005







The Existed Structure of MSWM in China







Landfill in Haikou



Landfill in Beijing



Landfill in Guangzhou









compactor









Leachate treatment in Qingdao







Leachate treatment in BEIJING









Landfill gas burner in Qingdao



Landfill gas generator in Wuhan (2×600KW)



Landfill Data Collection and evaluation

- The Urban Construction Design and Research Institute has been collecting data on landfills through out China
 - Planned visit with 400 landfills
 - Including landfill liners, collection system, cap and cover
 - Prioritized sites





Landfill Data Collection and evaluation

There 12 LFG projects is approved by NDRC for CDM (by the end of March 2007)

 There 16 landfill sites with LFG utilization projects and most of LFG are used for power generation (by the end of March 2006)





Landfill Data Collection and evaluation

Landfill evaluation result in 2006

	I grade landfill site	II grade landfill site	III grade landfill site	IV grade landfill site	TOTAL
Quantity	58	132	48	134	372
Capacity (tpd)	54722	72850	28281	38903	194756

I grade , II grade: sanitary landfill III grade, IV grade: not meet the sanitary landfill requirement





LFG Projects in the future

- More and more LFG Projects are developed
- LFG power generation as renewable energy will get more than 0.25 Yuan RMB(ABOUT 35 US Cent) Per KWh (according to the law of renewable energy started January 1 2006







A Partnership is Formed

- China is a founding partner of Methane to Markets
- Subcommittee representatives from the Department of Urban Construction, Ministry of Construction and Urban Construction Design and Research Institute, Ministry of Construction



 China is the host country for the upcoming Partnership Expo- held in Beijing





The End

 All are welcome to Beijing to participate the Expo and get the project Opportunities for the Expo

Thank you for your attention!



