



FACT SHEET: MUNICIPAL SOLID WASTE DISPOSAL

CHINA MUNICIPAL SOLID WASTE OPPORTUNITIES

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As the fast development of the urbanization and growth of GDP in China, there is and will continue to be more demands for energy consumption. China has seen a growing number of municipal solid waste in recent years. However, the MSW management system is poorly developed and causes many pollution problems in the small and middle sized cities in China involving waste collection, waste sorting, and recycling. Therefore, the improvement and optimization of MSW management is needed to solve the present pollution problems and improve the energy efficiency from the angle of waste handling.

During *The 11st Five Year Plan* period, the total amount of MSW clean-up was 210,000,000 tons, the handling rate of urban refuse was 63.5%, of which 77.9% of MSW collected in the cities were decontaminated and 27.4% in the countryside were decontaminated by the end of 2010. Alternatively, China has experienced a large and fast increase in solid waste quantities. It is expected that the annual solid waste quantities will increase by another 110% - growing to 480,000,000 tons in year 2030. This growing waste stream has a significant impact for the society, environment, and economic development. The current level of MSW treatment is not sustainable at that high of a level of pollution. As new facilities are planned to be built and new technologies are in demand to improve the treatment efficiency, the potential opportunities are there for enterprises.

There is a strong drive for policies in the MSW management sector. The Chinese State Council and Minister of Environmental Protection (MEP) of China published *The 12th Five Year Plan for Municipal Solid Waste Control*. According to the plan, by 2015, the MSW decontamination rate in the major cities will hit 90%. In the countryside the number is over 70%, of which 35% of decontamination will be incineration. Pilot projects for kitchen food waste will be carried out in 50% of Chinese cities. Waste sorting and collection projects are also pushed nationwide during the 5-year period.

The total cost for the *12th Five Year Plan for Municipal Solid Waste Control* is estimated to be 263.6 billion RMB (42.5 billion USD). The breakdown of the total cost is following:

- New municipal waste treatment facilities — 138.5 billion RMB (22.3 billion USD)
- Facilities expansion — 34.5 billion RMB (5.56 billion USD)
- Waste collection and transportation — 35.1 billion RMB (6.77 billion USD)
- Kitchen food waste — 10.9 billion RMB (1.76 billion USD)
- Waste disposal — 21.1 billion RMB (3.4 billion USD)
- Waste separation system — 21 billion RMB (3.39 billion USD)
- Monitoring system — 2.5 billion RMB (403 million USD)

The above reality shows a huge stimulus for the municipal solid waste management market, government subsidies, and investment from the private sectors will provide enough funding to attract more companies to get involved. It is a good opportunity for U.S. companies to tap into China's MSW management market, right now!