



China Integrated
Waste Management
NAMA

China Integrated Waste Management (IWM) NAMA Project 2017 – 2022

中国城市生活垃圾处理领域国家适当减缓行动项目2017~2022

中华人民共和国住房和城乡建设部
Ministry of Housing and Urban-Rural
Development (MoHURD)

NAMA Facility

On behalf of



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



Department for
Business, Energy
& Industrial Strategy



Danish Ministry
of Energy, Utilities
and Climate



Implemented by:



Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH



中国城市环境卫生协会
China Association of Urban Environmental Sanitation

项目介绍

NAMA基金会由德国、英国、丹麦和欧盟委员会共同成立，其主旨为通过促进行业转型升级在全球范围内实现应对气候变化的目标。为此，NAMA基金会大力促进应对气候变化活动，并帮助发展中国家和新兴经济体以国家自主贡献 (INDC) 的形式履行“巴黎协定”的承诺。

作为国家自主减排贡献的参与者，中国承诺2030年单位GDP二氧化碳排放强度比2005年下降60%-65%。为促进这一目标的实现，在NAMA基金会及中国住房和城乡建设部 (MoHURD) 的支持下，中国城市生活垃圾处理领域国家适当减缓行动项目 (IWM NAMA) 于2017 年9月正式启动。

通过一系列垃圾综合管理示范城市建设以及垃圾管理合作交流平台建设，IWM NAMA项目将借此推动中国垃圾处理行业向可持续发展转型，最终实现中国发展低碳循环经济的目标。

IWM NAMA项目由德国国际合作机构 (GIZ) 和中国城市环境卫生协会 (CAUES) 共同实施。作为执行机构，GIZ在中国开展中德技术合作已有30多年历史，在中德全面战略伙伴关系下推动着可持续发展和应对气候变化的双边互惠合作。



活动和目标

目前中国城市生活垃圾处理仍以混合收集混合处理为主,其中焚烧约占41%,填埋约56%,具有巨大的碳减排潜力。IWM NAMA项目旨在通过改变常规模式,推动垃圾综合管理并提高其作为经济可行低碳领域的投资吸引力,从而大力减少中国垃圾处理领域的温室气体排放。此外,IWM NAMA项目将助力最大限度地发挥城市生活垃圾的资源潜力,同时致力于减缓和改变现行常规垃圾处理方式对环境的破坏,这也与《“十三五”全国城镇生活垃圾无害化处理设施建设规划》提出的目标相一致。



项目的主要活动有:

- 在至少三个试点城市实施城市生活垃圾处理系统的最佳可行技术/最佳环境实践 (BAT/BEP)
- 完善中国城市生活垃圾管理政策体系、技术标准和市场条件,以确保垃圾处理领域向低碳可持续发展转型
- 支持利益相关方应用国家碳排放监测/报告/核查 (MRV) 方法学进行行业温室气体减排潜力评估,并建立垃圾处理领域的低碳解决方案数据库
- 提升行业内利益相关方对于国家碳排放交易系统 (ETS) 的认知,促进垃圾处理行业从碳交易市场获得新的资金流
- 加强公共与私人部门的技术培训和机构能力建设,建立分享及传播IWM NAMA项目执行经验的长效机制
- 实现公众对于城市生活垃圾综合管理及社会环境效益的意识提升
- 搭建合作交流平台,提高生活垃圾综合管理相关私营企业及金融机构对于行业发展及商业模式的认知。

预期成果

在三个示范城市,通过最佳可行技术/最佳环境实践的应用,城市生活垃圾综合管理体系建设将取得以下成果:



每年减排22至44万吨二氧化碳(每个试点示范城市二氧化碳年减排量可高达14万吨)



至少有300万本地人口从项目实施中直接受益



主要利益相关方支持城市生活垃圾综合管理低碳发展解决方案并进行复制



妥善处理餐饮垃圾,改善城市食品安全



减少垃圾处理不当造成的污染



吸引垃圾综合管理体系公共和社会资本

ABOUT

The NAMA Facility, jointly funded by the governments of Germany, United Kingdom and Denmark as well as by the European Commission, plays the leading role in supporting transformational sector-based initiatives throughout the world to respond to the challenges of climate change. In doing so the NAMA Facility inspires ambitious action, and helps developing countries and emerging economies to deliver on their Paris Agreement commitments in the form of Intended Nationally Determined Contributions (INDC).

As part of the INDCs, China has announced the goal of reducing its CO₂ emissions per unit of GDP by 60 to 65 percent below 2005 levels by 2030. To contribute to this goal, China Integrated Waste Management NAMA (IWM NAMA) Project, headed by the NAMA Facility and the Chinese Ministry of Housing and Urban-Rural Development (MoHURD), was launched in September 2017.

The project supports China's ambition for low-carbon urbanisation through piloting IWM approaches in a number of demonstration municipalities as well as promoting waste management partnerships and networks. These measures are to catalyze the transformation of the Chinese waste sector towards a sustainable path with an ultimate goal of establishing a circular low-carbon economy.

The IWM NAMA project is implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH jointly with the Chinese Association of Urban Environmental Sanitation (CAUES). As the implementing organization, GIZ has over 30 years of experience in the field of Sino-German technical cooperation, working within the framework of the Comprehensive Sino-German Strategic Partnership for the mutual benefit of both countries in the areas of sustainable development and climate change mitigation.

ACTIVITIES AND GOALS

The current state of municipal solid waste management in China with 41% of waste being treated by incineration and 56% - disposed at landfill sites, offers significant potential for curbing carbon emissions. The IWM NAMA project aims to utilize this potential by diverting from the business-as-usual (BAU) approach, promoting IWM and increasing its attractiveness as a financially viable low-carbon field of investment. Moving forward with China's 13th Five-Year Plan, the project will help to maximize the resource potential of municipal solid waste, while reversing the environmental damage of the BAU approach.



MBT waste treatment plant in Xiamen
厦门市厨余垃圾处理厂

We will

- demonstrate Best Available Techniques / Best Environmental Practice (BAT/BEP) of IWM in at least three Chinese municipalities
- improve China's political framework, technical standards and market conditions to enable the transformation towards low-carbon waste management
- support stakeholders in applying Chinese national MRV methodologies to assess the sectoral GHG emission reduction potential and build up the database of low-carbon solutions
- showcase potential of the national emissions trading scheme (ETS) as a new income stream
- increase technical and institutional capacities of public and private sector stakeholders to anchor lessons learned and facilitate the dissemination of know-how
- raise citizens' awareness regarding the IWM system and the role of the public in its long-term sustainable functioning
- establish a platform to facilitate networking between the key Chinese and international stakeholders, and inform the financial sector about investment opportunities in the waste sector in China

EXPECTED OUTCOMES

The utilization of IWM system based on BAT/ BEP approaches in at least three demonstration municipalities will result in:



reduction of GHG emissions by 220,000 to 440,000 tonnes CO₂e/year (up to 140,000 tonnes CO₂e/ year in each demonstration municipality)



at least three million local inhabitants benefiting directly from the implemented solutions



key stakeholders supporting the introduced IWM solutions and replicating them



improved food safety with properly treated restaurant waste



reduced pollution levels with the increased percentage of waste treated in controlled facilities



attractiveness of the IWM system for public and private investments





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Management NAMA Project

