

GLOSSARY OF TECHNICAL TERMS

This glossary contains definitions of certain technical terms used in this Document in connection with our Company. Such terms and their meanings may not correspond to standard industry definitions or usage.

Almaty Project	A proposed project in relation to solid waste treatment and energy generation, to be located in Almaty, Kazakhstan, which is in our pipeline of projects
Anaerobic digestion	Breaking down organic material without oxygen to produce biogas
Biogas	Combustible gas produced from organic waste during anaerobic digestion
Bishkek Project	The Bishkek City Waste Technology Disposal Power Generation Project
BOO	Build-own-operate
BOOT	Build-own-operate-transfer
BOT	Build-operate-transfer
Bottom ash	The residual ash directly discharged from the furnace bed after the incineration of domestic waste, and the ash and slag discharged from the superheater and economizer, which can be used in construction after resource utilization
CCHP	Combined cooling, heat and power, i.e., a system that simultaneously produces electricity, heating, and cooling
Changsha Food Waste Project	The Changsha City Food Waste Treatment Project
Changsha Transfer Project	The Changsha City No. 1 Waste Transfer and Treatment Station Project
Changsha Waste-to-Energy Incineration Project (phase I)	Changsha City Household Waste Comprehensive Treatment (Clean Incineration) Project
Changsha Waste-to-Energy Incineration Project (phase II)	Changsha City Sewage Treatment Plant Sludge and Household Waste Clean Incineration Integrated Disposal Phase II Project
Clean waste-to-energy incineration	Burning waste to generate electricity with minimal environmental impact
Co-incineration	Burning two or more types of waste together, such as sludge and solid waste
Concession agreement	A contract under which the government grants the right to operate a certain municipal public product or provides service within a certain geographical area for a specified period

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Concession-based model	A business model where a company operates infrastructure under a government license
Digital twin	Develop a dynamic digital virtual model that synchronizes with a real-world entity via the sensor data of a physical model and real-time interaction
Distributed energy	An energy system that generates electricity and provides heat with a small-scale equipment close to the point of use
Flue gas	Exhaust gas from combustion processes
Flue gas purification	Removing pollutants from exhaust gases before release
Fly ash	Substances collected by the flue gas purification system and the bottom ash settled at the bottom of the flue and chimney
Fly ash treatment	Processing fly ash for reuse or safe disposal
Furnace	A device for incinerating domestic waste by mechanical stratified combustion
Grate incinerator	A critical component in modern waste management systems, designed to handle large volumes of solid waste efficiently
Hazardous waste	The solid wastes that are listed in the National Hazardous Waste Catalogue or identified as having hazardous characteristics in accordance with the national hazardous waste identification standards and methods
High-temperature anaerobic digestion	Anaerobic digestion is generally classified into mesophilic anaerobic digestion and thermophilic anaerobic digestion. Thermophilic anaerobic digestion refers to an anaerobic digestion process conducted at a temperature of 55~58°C
Impurity separation	Removing non-organic materials from food waste
Incineration	Burning waste at high temperatures to reduce volume and generate energy
Industrial-grade mixed oil	Oil recovered from food waste for industrial or energy use
Issyk-Kul Project	The proposed Issyk-Kul Region Waste Technology Disposal Project, which is in our pipeline of projects
Leachate	Contaminated liquid that drains from waste, which is a part of sewage
Leachate treatment	Processing contaminated liquid from waste to make it safe for discharge or reuse
Liuyang Waste-to-Energy Incineration Project	The Liuyang City Household Waste Incineration Power Generation Project

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Load rate	The ratio of actual waste treated to the facility’s design capacity
MBR	Membrane bioreactor, i.e., a system combining biological treatment and membrane filtration for wastewater
Nanofiltration	A pressure-driven membrane separation process that falls between reverse osmosis and ultrafiltration
Oil-water separation	Extracting oil from food waste slurry
Osh City Project	The proposed Osh City Waste Technology Disposal Project, which is in our pipeline of projects
Pingjiang Waste-to-Energy Incineration Project	Pingjiang County Municipal Sludge and Household (Food) Waste Incineration Power Plant Project
Project lifecycle	The stages from project development to operation and transfer
Reverse Osmosis	A membrane separation process that uses pressure difference as the driving force to separate the solvent from a solution
Sludge cake	Dewatered sludge with reduced moisture content
Sludge treatment	Processing semi-solid waste from sewage for safe disposal or reuse
SNCR	Selective non-catalytic reduction i.e., a method to reduce nitrogen oxides in flue gas using urea or ammonia
Steam turbine generator	A device that converts steam energy into electricity
Thermal hydrolysis	A pretreatment or reaction process that uses high temperature and pressure to hydrolyze and break down complex organic matter
Three-phase separation	Separating food waste slurry into oil, water, and solids
TOT	Transfer-operate-transfer
Turbine generator set	A mechanical device that converts mechanical energy into electrical energy using a turbine and a generator
Wangcheng District Waste Transfer Project	The proposed Changsha City Wangcheng District Household Waste Transfer Station Project, which is in our pipeline of projects
Waste heat boiler	A boiler that uses heat from flue gas to generate steam