ENWISE TURN YOUR WASTE TO ENERGY

SEN P ENWISE www.enwise.io

Rapid growth of organic waste in China



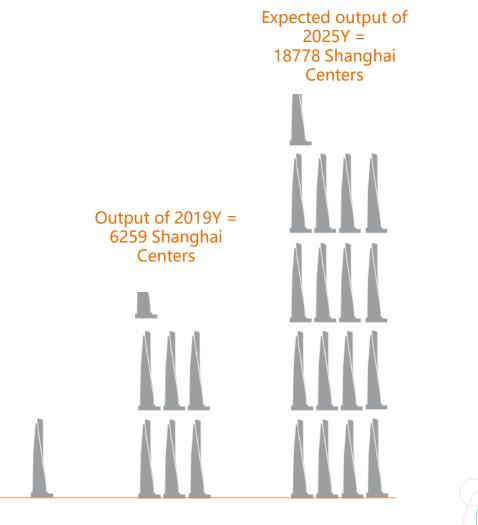


Current situation in China:

- High waste disposal cost
- Space limit
- Environmental impact (odor, sewage)
- Low processing efficiency
- Waste of resources

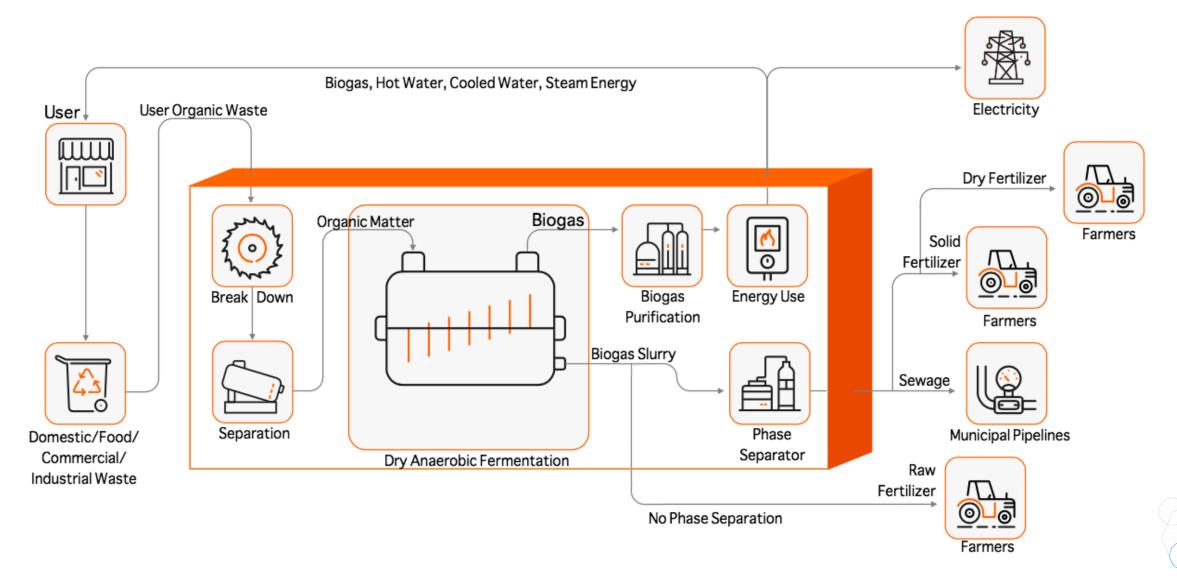
Current solution:

- Landfill
- Fast composting
- Waste incineration



Our Solution





Our Solution





Pretreatment Module: Prepare waste for digestion



Digestion Module: Performs the digestion, extracts fertilizer



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Energy Module: Purifies the biogas, converts biogas to electricity, hot water, cool water, or steam





Post-Treatment Module: Produces raw fertilizer, solid fertilizer or dry fertilizer and processes wastewater as per options 1, 2, and 3



Use cases



Jiangsu, China Supermarket waste



Shanghai,China Food waste



Shanghai,China Supermarket waste



Lyon, France Food waste



Shanghai,China Food waste



Shanghai,China Spent grains waste

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Energy Efficiency



With Enwise technology, 1 ton of organic waste will turn into 40KG solid

fertilizer, reduce 96% of its volume

The biogas generated while processing organic waste can be applied to:



Self-circulation

The energy generated can be self-circulated for equipment operation and waste water treatment system



Heating

Energy output can be converted to 5 tons of hot water



Electricity

Energy output can be converted to electricity 200 KWH/day

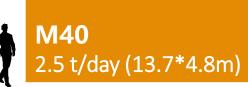
Applicable Scenarios





















OTTO Service

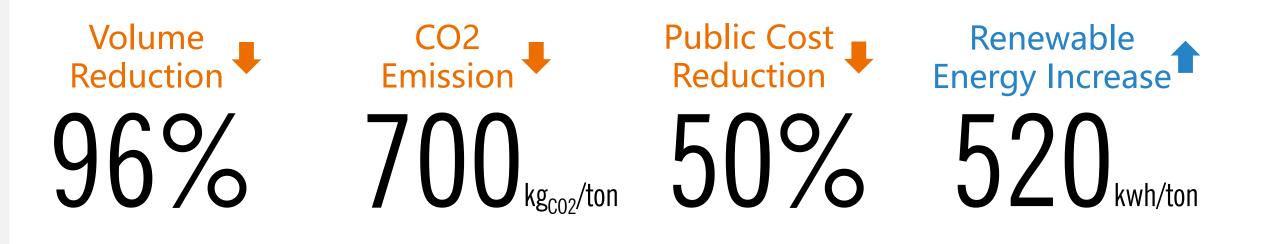


OTTO: OSCAR's remote management and control system. It provides real-time visualization of KPI, allowing for continuous performance optimization.



Sustainable Development







Cooperation mode



Enwise offers flexible cooperation modes with different channels



Direct Sales

Solution Design+Equipment+ Installation+Operation PPP

Government Purchase+User Operation

Leasing

Equipment Leasing with operation package



Our Core Business



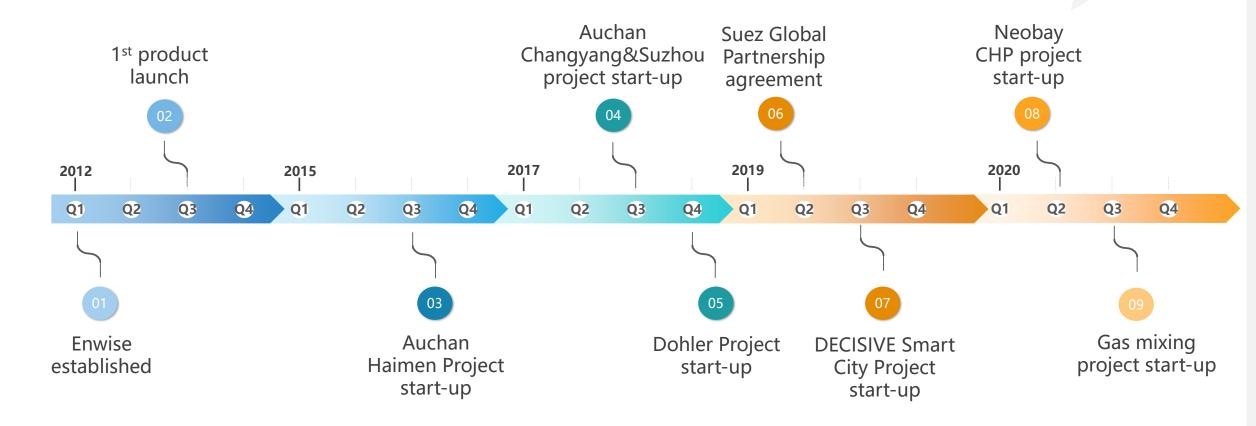
Enwise provides a unique combination of waste disposal solution design trough high-efficiency digesters and remote software platform. By using our technology, customers gain a convenient source of organic fertilizers and biogas while disposing of their waste. Most importantly, we offer modules that channel the energy from the biogas towards creating **hot water, cool water, steam, or electricity**.





Our Milestones







Our Advantages





Intellectual Properties





Infallin Government 19 Australia CERTIFICATE OF GRANT	WE IS \$7.30 10281055 \$3
INNOVATION PATENT Patent number: 2019101285	发明专利证书
The Commissioner of Patents has granted the above patent on 13 November 2019, and certifies that the below patriculars have been registered in the Register of Patents. Name and address of patentee(s): SN4NK0H4 BEIGI NEW ENERGY TECHNOLOGY CO., LTD, of 260 Yuantai Road Baoshan District Shanghai 200444 Chms. Title of Invention:	发 明 名 称: 生物发酵固定床反应器及其固定床载体的清洗方法
FERNENTATION EQUIPMENT USED FOR ORGANIC MATTER AND METHOD THEREFOR Name of Inventor(s): Stephane, Vernede Term of Patent:	发 明 人: 李卓耀:维贺纳德·斯蒂芬
Eight years from 18 April 2018 NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this occument.	专 利 号: ZL 2012 I 0187663.X
Priority details: Divisional of: PCT/CN2018/083514	专利申请日1 2012年06月08日
	专利权人;至卓隆
	授权公告日 ₁ 2013年09月25日
Dated this 13° day of November 2019 Commissioner of Patents	本发明经过本局依照中华人民共和国专利法进行审查,决定投予专利权,碳发术证: 并在专利坚记等上于以登记。专利权自投权公告之目端生效。 本专利的专利权期限为二十年,自申请目起耳。专利权人应当依照专利法及其实施; 则规定做纳年费,本专利的年费应当在每年 06 月 08 日前跟纳。未按照规定跟纳平费的 专利权自应当做纳平费期间之日起终止。 专利证书记载专利权登记时的法律状况。专利权的转移, 盾押,无效,终止,依复 专利权人的姓名或名称、国籍,地址交更等事项记载在专利登记等上。

Safety & Stability



CE Certification



HAZOP(Hazard and Operability Analysis) proceeded by Suez Group

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<u>Bisk Assessment:</u> To determine if environmental and indu- matrix. <u>Bisk Calculation:</u> The following calculation formula is to b 0-2: Acceptable Bisk 2-5: Moderant Bisk 8-8 Significant Risk 8-10 Critical Risk (imme diate treatme			sorted, please evaluate them using this		Exceptional	Every 100 years.	have now erheard about		Hermonia in the business	Low protect By	tevery 20 years or hes	A is ady happened in the Group		tevery 5years or bas	Arready happened in the ptu Probable	ay 2years a loss	A leady heppened in the site	Almost certain	Every year of mooglebac
	Impact/	Severity				0	-			—	2			3		4		5	
Human	Environment	Economic	Press Media								-			-					
Sovoral deaths.	Proversible impact on sensitive area or >2000 tons hazardous products or > 500 tons of very toxic products spilled	> 20 000 000 €	Persistent major impact against the Company.	5														ritica Risk	
death or permanent disabled, or reversible professional liness.	Reversible impact on sensitive area or 200 to 2000 tons of haz ardous products or 50 to 500 tons of vary taxlo products spilled	5 000 000 ± 20 000 000 €	Major Impact on Press Madia.	4										fican isk	t				
Vork accident with medical leave > 30 lays, or reversible probasional illness. Hysical injury on neighbours or ustomers.	Reversible Impact on long larme (> 3 months) or Notification or prosecution or Chronic Impact or 20 to 200 tons of haz ardous products or 5 to 50 tons of very toxic products splited	1 000 000 à 5 000 000 €	Regional or National Impact.	3															
	Light impact reversible in some weeks (1 to 3 months) or 2 to 20 tons of hazardous products or 0,5 to 5 tons of very toxic products spilled	100 000 à 1 000 000 €	Potential Regional Impact.	2							der: Risk	ite							
bdical treatment (no medical leave of beence).	Situation normally reversible in the short term (1 to 7 days) or 0,2 to 2 tons of hazardous products or 0,05 to 0,5 tons of very toxic products spilled.	10 000 à 100 000 €	Local Press Media Impact.	1			4	lccep	rtabl										
io impact.	Stuation normally reversible in short-term (< 24 h) or <0,2 tons of haz ardous products or <0,05 tons of very toxic products spilled.	<10000€	No impact.	0				Ri	sk										

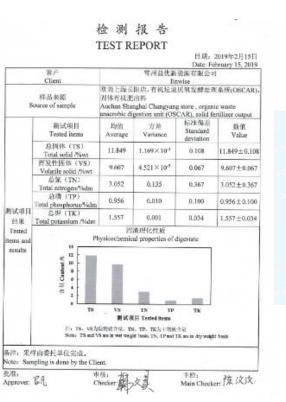
Environmental Protection



Sewage disposal standard enter into China norm DB31/199-2018 Class III standard

污染物控制项目	单位	最大值
pH(无量纲)	-	6-9
色度(稀释倍数)	mg/l	64
溶解性总固体 (TDS)	mg/l	2000
悬浮物(SS)	mg/l	400
五日生化需氧量(BOD5)	mg/l	300
化学需氧量(CODCr)	mg/l	500
总有机碳 (TOC)	mg/l	150
氨氮(NH3-N)	mg/l	45
总氮(TN, 以N计)	mg/l	70
总磷(TP,以P计))	mg/l	8

Fertilizer Report



Analysis done by a third party laboratory in Tongji University

9 国联质检

西安国联质量检测技术股份有限公司

Xi'an United Nations Quality Detection Technology CO.,Ltd.

试验报告

齐号	试验项目	单位	试验结果	试验方法
1	大肠杆菌(大肠埃希氏)	MPN/g	<3.0	GB 4789.38-2012
2	沙门氏菌	1	未检出	GB 4789.4-2016
3	耐热大肠菌(粪大肠菌群)	MPN/g	<3.0	GB 4789.39-2013

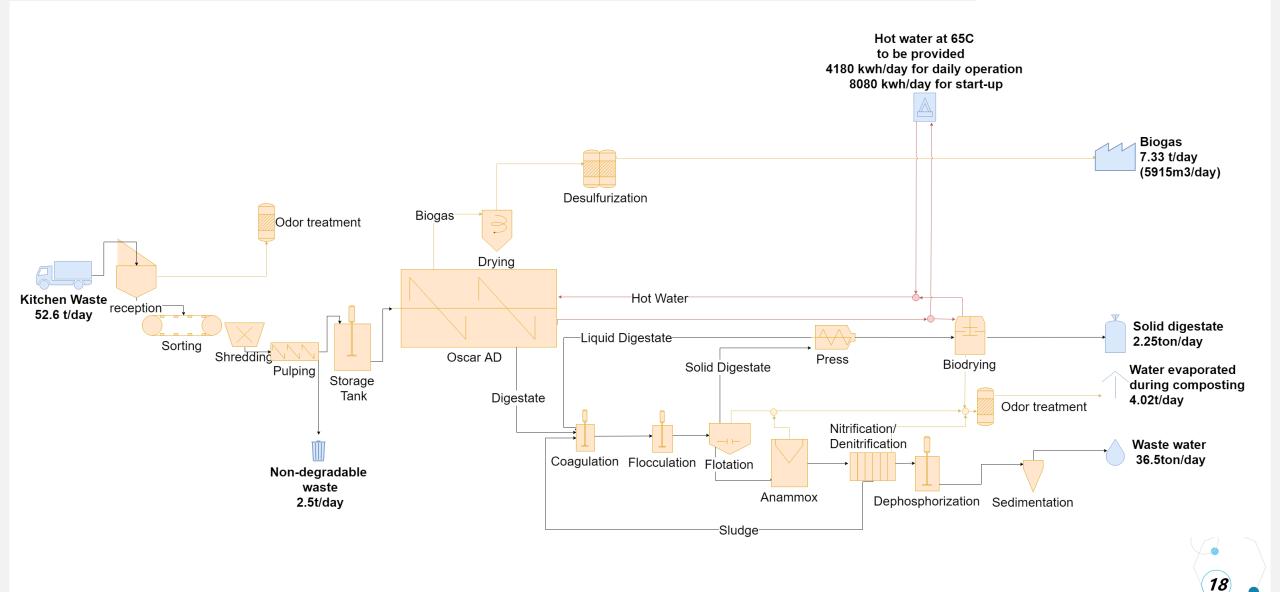
Our Clients





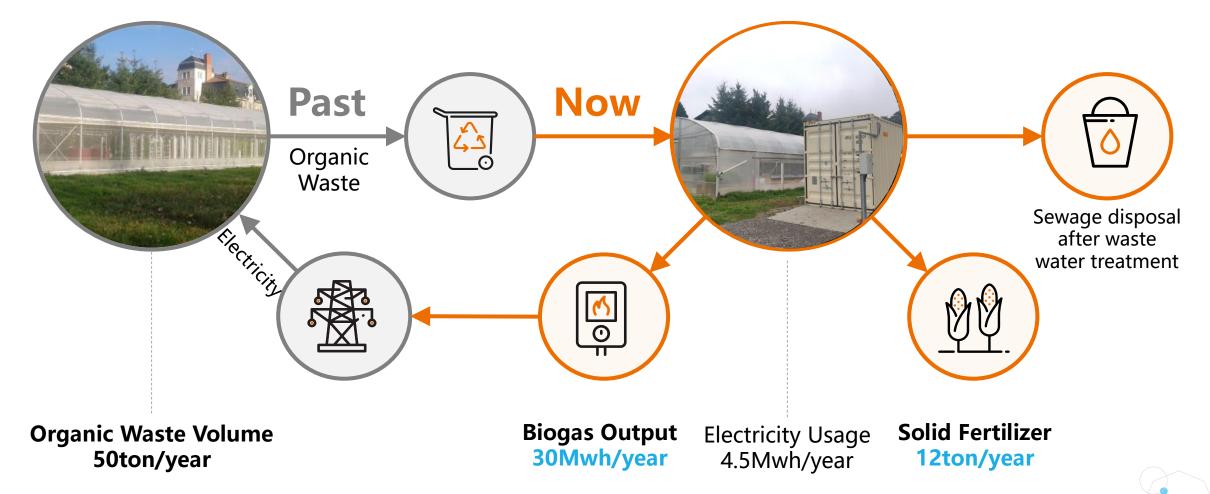
Flowchart





Case – DECISIVE Project in France

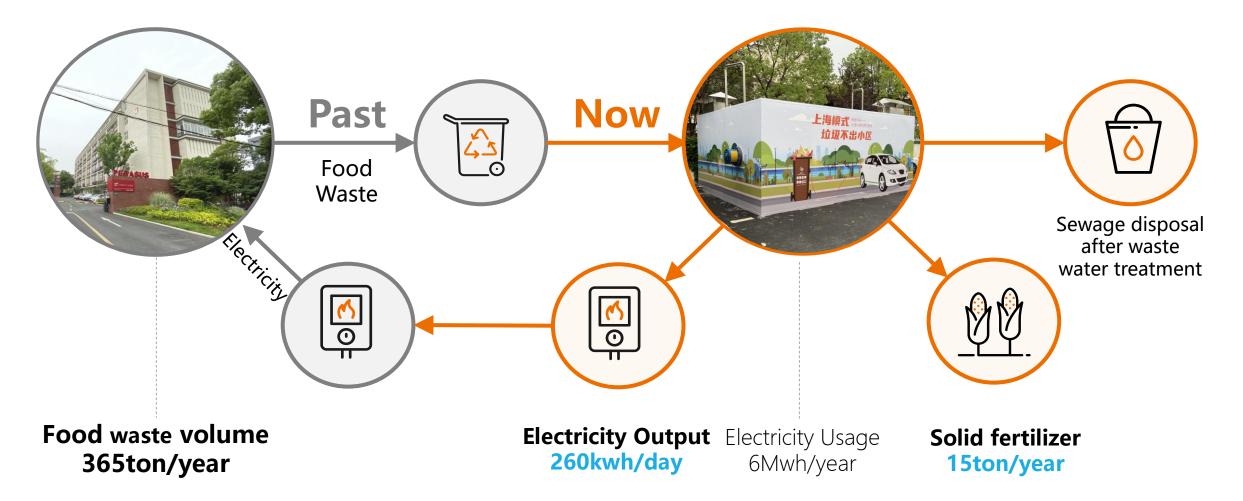
In cooperation with Suez, Enwise provides bio-digester for Michelin Star restaurant food waste





Case – Neobay in China

Enwise offers Neobay food waste processing system, produces electricity for new energy vehicle charging



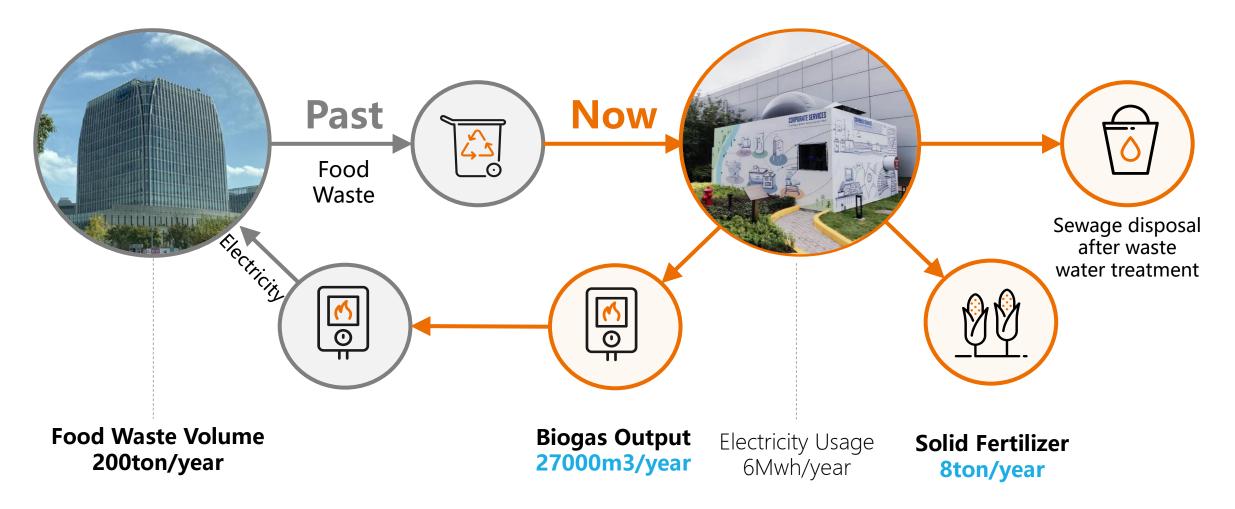
neoBay

Jump start your dream.

Case – APAC Research Center in China

World leading Microprocessor manufacturer

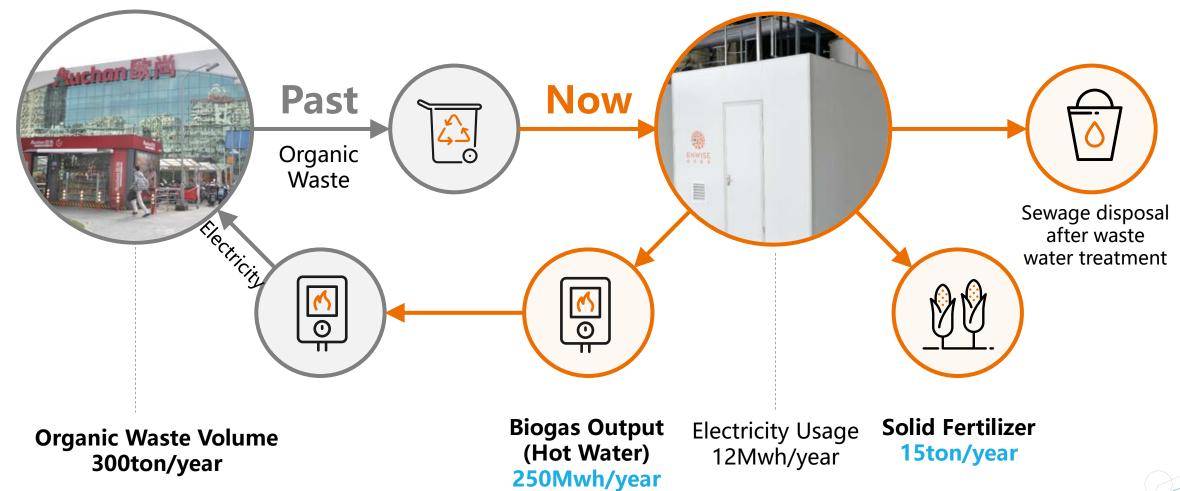
Enwise offers Intel a food waste processing system, produces biogas for center kitchen cooking usage



Case – Auchan Supermarket in China



Enwise offers supermarket waste disposal system, to supply hot water and save waste disposal fee



Case – Dohler group in China

Enwise offers food industry waste processing system, produces heat energy for factory processing usage



