



Amager Bakke EfW Plant, Copenhagen, Denmark
Owner & Operator: Amager Resourcecenter (ARC)
Grate Supplier: Babcock & Wilcox Renewable
Photo Courtesy of Babcock & Wilcox Renewables

Worldwide Market Share Analysis of Thermal Waste Treatment Plants

Excerpt

2022 Edition

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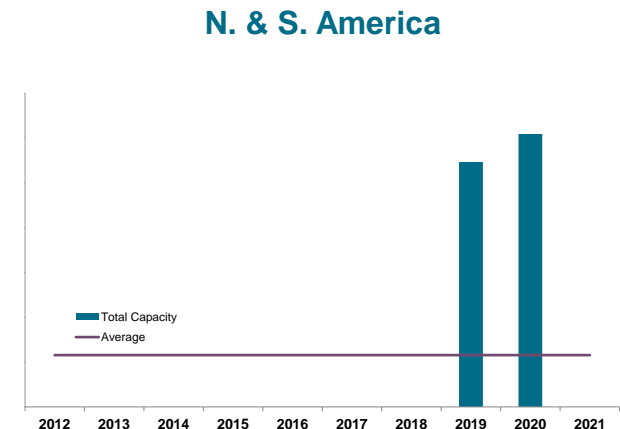
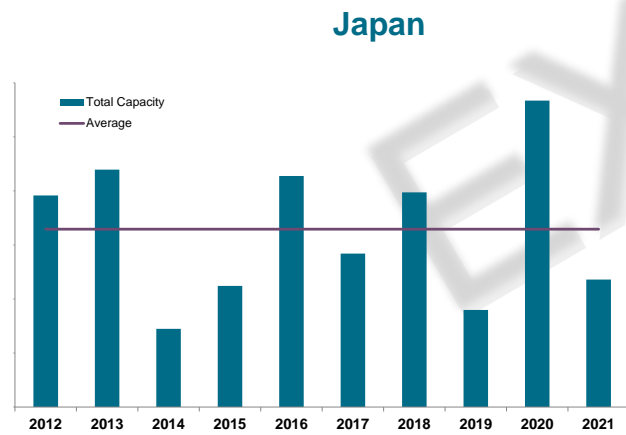
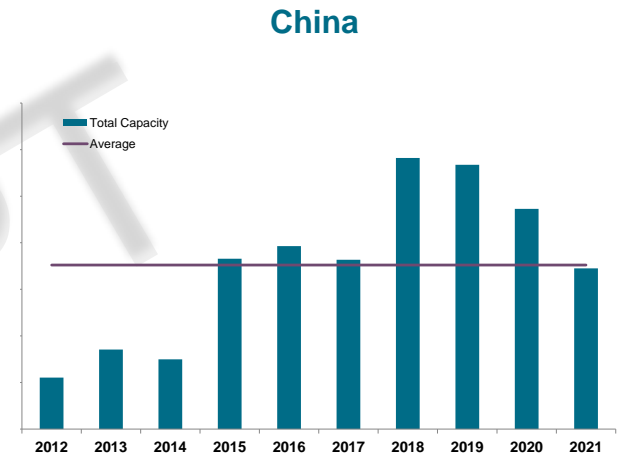
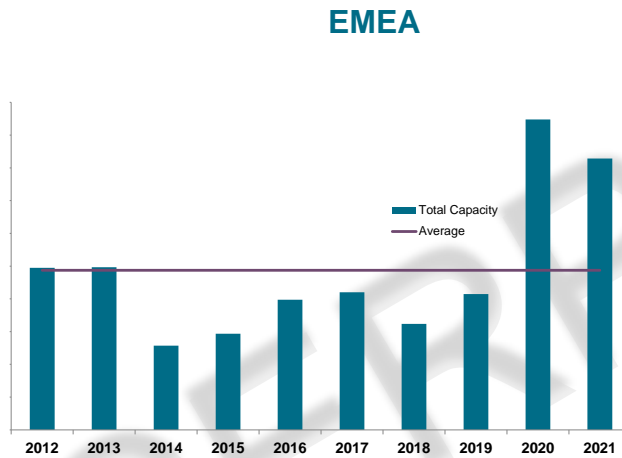
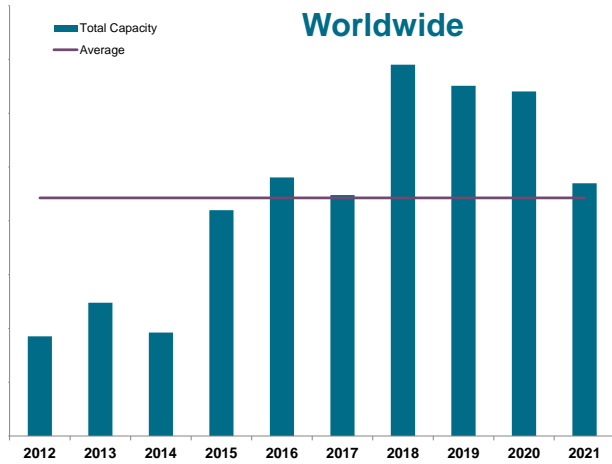
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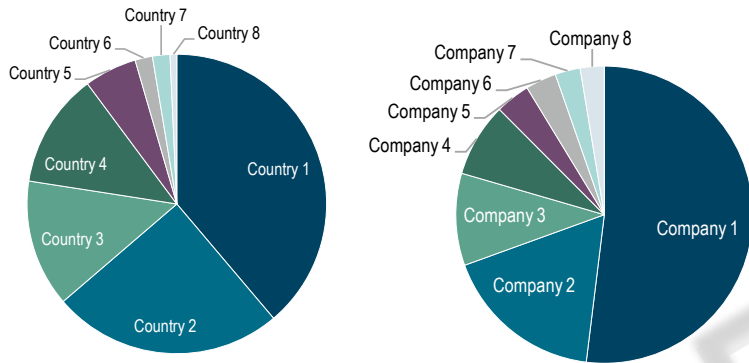
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10-Year Annual Award Volumes 2012 - 2021

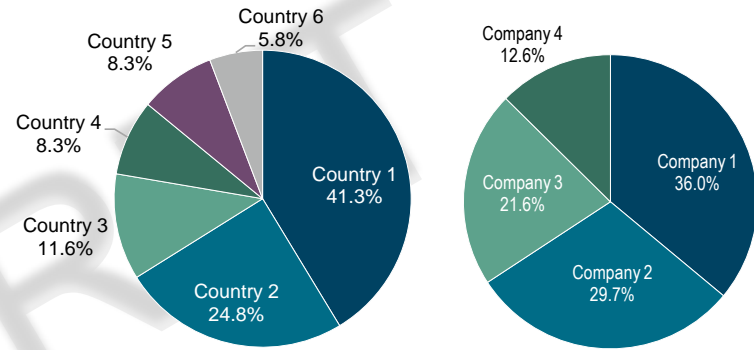


2021 Awards by Country and Supplier

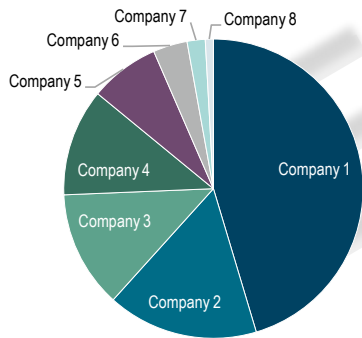
EMEA



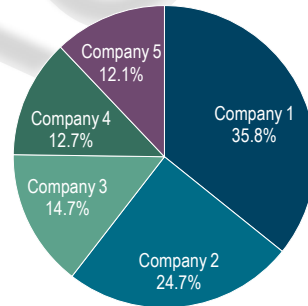
**Asia Pacific
excluding China &
Japan**



China



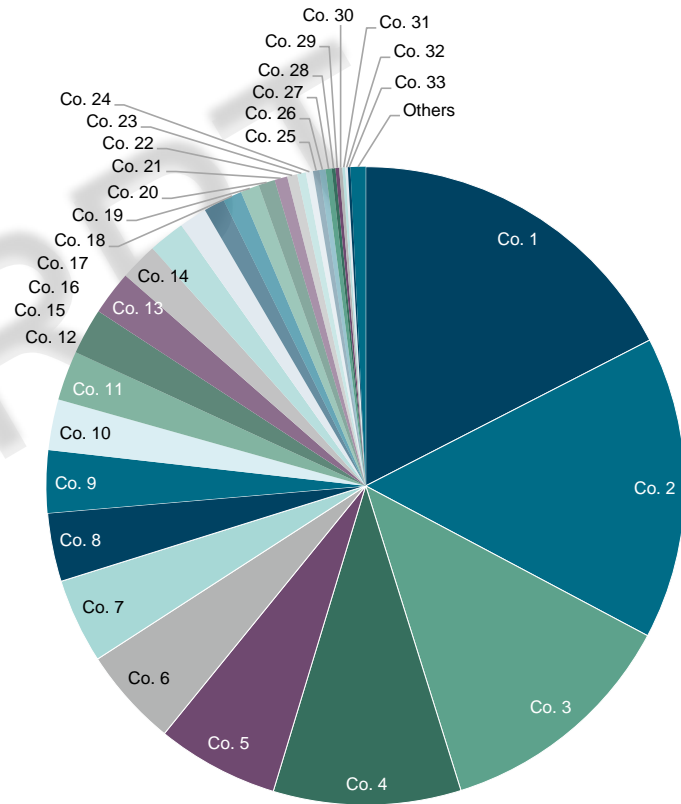
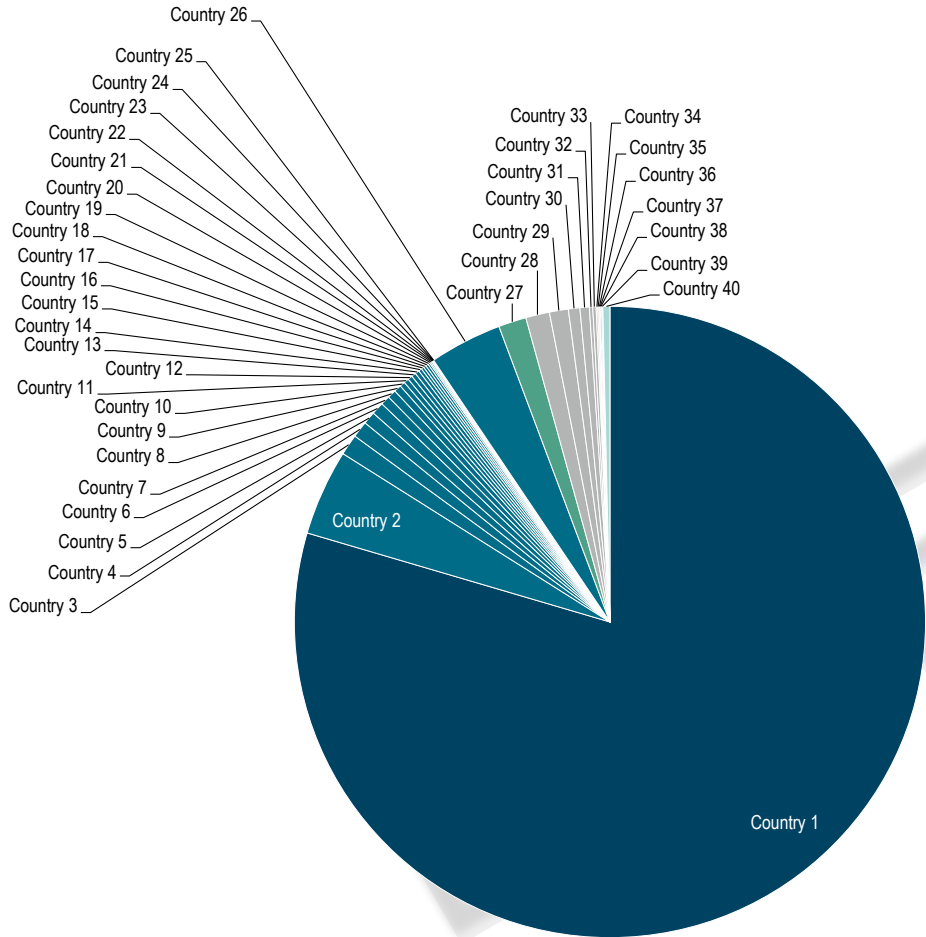
Japan



N. & S. America

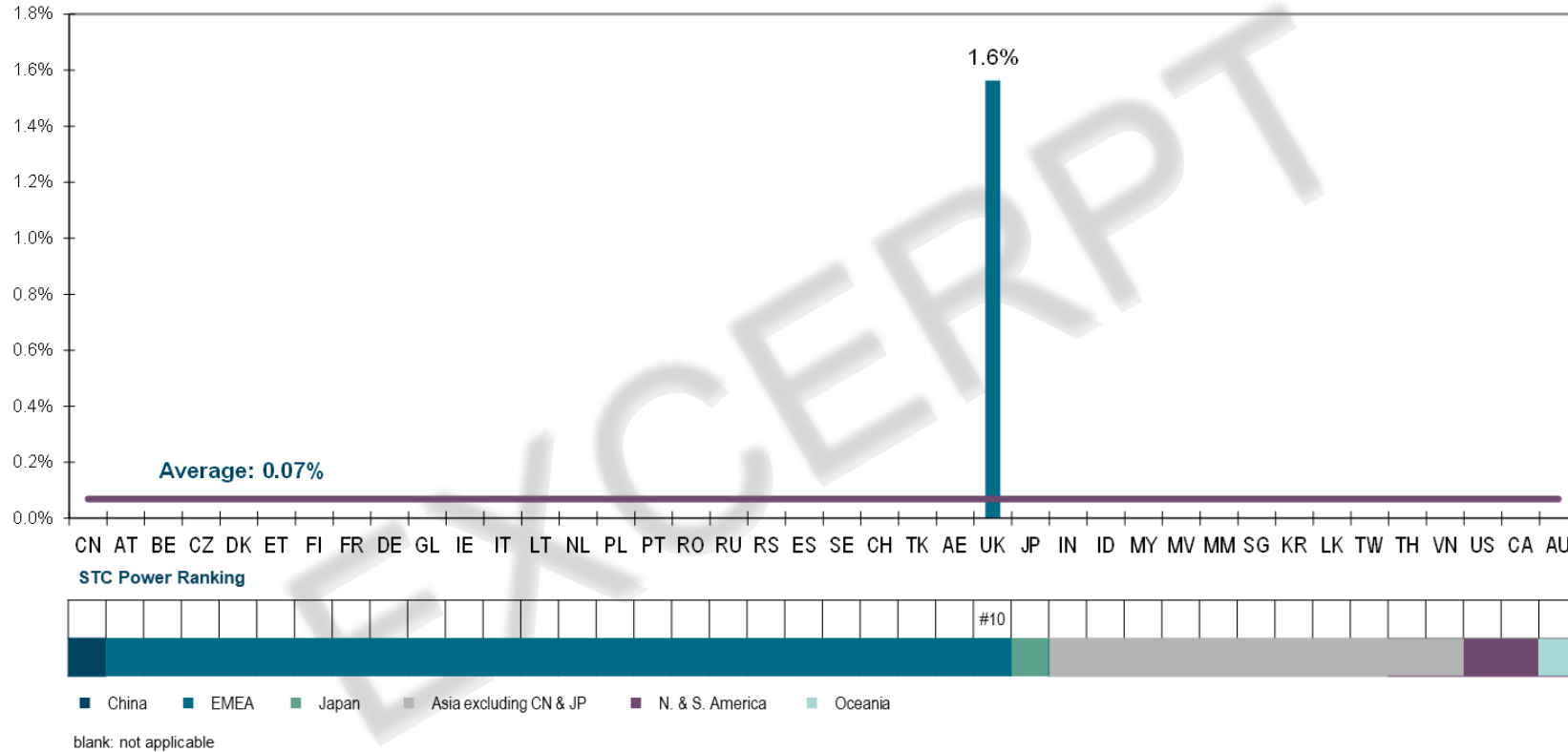
No Awards in 2021

Worldwide Awards 2012 – 2021 by Country and by Supplier



Ranking of Competitors by Country and Market Position

STC Power Awards 2012 – 2021



Excerpt from Actual Report – Plant / Award List by Supplier 2019 – 2021

Region	Country	Location	Owner	Customer	Supplier	Fuel	New/Extension/ Replacement/ Revamping	Scope of Project	Thermal System (all information per process line)			MWh per line	APC System			Award Year	Start-up Year
									Type	# of Units (process lines)	Capacity per line (t/h)		Type	Details	Supplier		
China	China	Longkou, Shandong Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (60% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	25.00					2021	2022
China	China	Mingshi, Yunnan Province (Phase II)	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	Extension		CHK (KH grate)	1	12.50					2020	TBC
Asia excluding JP & CN	Vietnam	Bac Ninh	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) (95% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	12.50					2020	2022
China	China	Fengning, Hebei Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (70% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	8.82					2020	2022
China	China	Zhangjiakou, Hebei Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) (ACK: 100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	20.83					2020	2022
China	China	Shulan, Jilin Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	16.67					2020	2022
China	China	Dulan, Guangxi Region	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	20.83					2020	2022
China	China	Luzhai, Guangxi Region	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	16.67					2020	2022
China	China	Naiman Banner, Inner Mongolia	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	16.67					2020	2022
China	China	Fugou County, Henan Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	20.83					2020	2022
China	China	Jinning, Yunnan Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	16.67					2020	2022
China	China	Suzhou City, Anhui Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	20.8					2020	2022
China	China	Luxi County (Phase II), Yunnan Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	Extension		CHK (KH grate)	1	12.5					2020	2022
China	China	Pingguo, Guangxi Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	16.67					2020	2021
China	China	Longan, Guangxi Province	ACK (Anhui Conch Kawasaki Engineering Co., Ltd.) - (100% ownership)		ACK (Anhui Conch Kawasaki Engineering Co., Ltd.)	MSW	New		CHK (KH grate)	1	12.50					2019	TBC

Excerpt from Actual Report – Plant / Award List by Country 2019 – 2021

Country	Location	Owner	Customer	Supplier	Fuel	New/ Extension / Replacement / Revamping	Scope of Project	Thermal System (all information per process line)			MWh per line	APC System			Award Year	Start-up Year
								Type	# of Units (process lines)	Capacity per line (t/h)		Type	Details	Supplier		
India	Tehkhad, Delhi	Tehkhad Waste to Electricity Project	Tehkhad Waste to Electricity Project	CIS (Martin grate)	MSW	New	Grate	SIFY2000	2	25	48.61				2021	2023
India	Moshi, Pimpri Chinchwad, Maharashtra	Antony Lara Renewable Energy Pvt. Ltd.	Antony Lara Renewable Energy Pvt. Ltd.	Hitachi Zosen India (Consortium with ISGEC)	MSW	New	Turnkey	Grate	1	29.17					2021	2023
India	Bidadi, Ramnagar, Bengaluru, Kamataka	KPC Gas Power Corporation Limited	KPC Gas Power Corporation Limited	Hitachi Zosen India (Consortium with ISGEC)	MSW	New	Turnkey	Grate	1	25.00					2021	2022
India	Rajkot	Abellon Clean Energy	Abellon Clean Energy	Keppel Seghers	MSW	New	Tech Pack (core equipment, design and technical services for the plant's furnace and boiler)	Air-cooled grate	1	35.4	65.9 x 1	Semi-wet + AC		Not in scope	2019	Cancelled
India	Ahmedabad	Abellon Clean Energy	Abellon Clean Energy	Keppel Seghers	MSW	New	Tech Pack (core equipment, design and technical services for the plant's furnace and boiler)	Air-cooled grate	1	35.4	65.9 x 1	Semi-wet + AC		Not in scope	2019	2023
Indonesia	Jakarta	Perusahaan Umum Daerah Pembangunan Sarana Jaya	Perusahaan Umum Daerah Pembangunan Sarana Jaya	CTYI	MSW	New	CTYI BOT	Energize Multi-stage Grate	2	31.25					2021	2024
Maldives	Thilashli Island	Akle Insaat & Alkatas Insaat	Urbaser	CTYI	MSW	New	design, equipment procurement (EPC contract)	Energize Multi-stage Grate	2	10.42					2021	2024
Singapore	Tuas Nexus Integrated Waste Management Facility	Singapore National Environmental Agency	Singapore National Environmental Agency	Keppel Seghers (consortium China Harbour ST Engineering) Babcock & Wilcox Renewable (former Babcock & Wilcox Velund)	MSW	New	Turnkey (EPC)	Air-cooled grate	4	37.50	104 x 4	Wet	SNCR + AC + Double wet	Keppel Seghers	2020	2025
South Korea	Haeundae 1				MSW	New	Licensing	B&W Velund grate	1	8					2020	2022
South Korea	Yeonggwang	Techcross	Techcross (general contractor) / CRE (Chosun Refractories Eng'g responsible for grate/boiler lot)	Martin	RDF (substitute fuel)	New	Grate	Reverse-acting Vario grate	1	15.10	55				2020	2022
South Korea	Asia Paper, Sejong	Asia Paper Mfg Co.	TaeJong	Revi Tec	SRF	New	Water-cooled Grate	Revi Tec Water-cooled Grate	1	7.50	41				2019	2019
Sri Lanka	Colombo	China Waste Power	China Waste Power	Shanghai SUS (HITZ license)	MSW	New	License for grate system by HITZ	Grate	2	14.50					2019	2021
Taiwan R.O.C.	Changbin Industrial Park, Changhua County	FengYu Resources Co., Ltd.	FengYu Resources Co., Ltd.	Hitachi Zosen Corporation (HITZ)	Multifuel	New	Main equipment including grate, boiler, power generation equipment etc.	Grate	1	14.58					2021	2024
Taiwan R.O.C.	Xinzhu City	(Local SPC)	(Local SPC)	Ebara Qingdao Co., Ltd.	MSW	New	Furnace/Boiler lot EPC	Ebara Stoker	2	10.42	36.34	Dry	Bag-SNCR	out of scope	2020	2023
Thailand	Songkhla Province	TPI Polene Power Public Co Ltd (TPPP)	China National Electric Engineering Co., Ltd. (CNEEC)	CNIM (Martin grate) / CNIM Martin Private Limited	MSW	New	Grate + APC + Boiler Basic Design	Reverse-acting grate MARTIN Enviropower	2	14.6	30	Dry	Secolab dry system	LAB	2021	2023
Thailand	ALCP6 WIE Project, Krabi	Alliance Clean Power Company	Alliance Clean Power Company	CIS (Martin grate)	MSW	New	Grate	SIFY2000	1	20.83	40.51				2020	2022