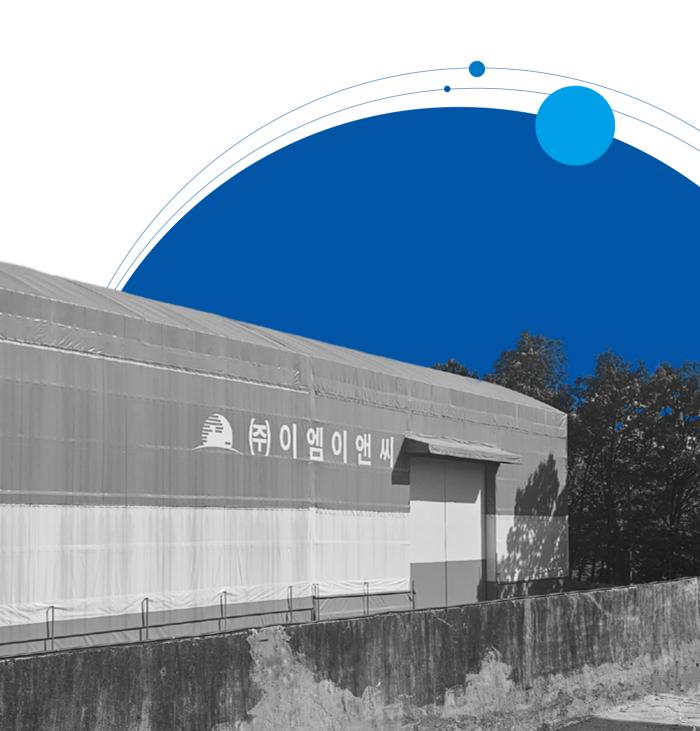


INTRODUCTION OF EM E&C FOR BIDDING PROJECTS



"As a company that prioritizes people and the environment, we pursue the happiness of society."



BEST OF BEST Optimal air handling technology for client

We provide the most efficient technology to meet your needs, from design to manufacturing and construction, including hazardous gas treatment.

BEST QUALITY Know-how from collaboration with leading companies

At EME&C, we leverage the expertise gained from supplying and installing for leading domestic companies such as Samsung and LG to deliver the highest quality in both our products and on-site installations.

BE BETTER A constant effort for a better society

At EME&C, we always prioritize the environment and the future, providing a wide range of environmental solutions tailored to meet our customers' needs.

COMPANY INFORMATION

Company name	EME&C Co. Ltd.						
	Headquarter and	816, Building B, IT Tower, Geumgang Pentarium, 282, Hagui-ro, Dongan-gu,					
	R&D center	TEL 031-337-6263 FAX 031-337-6264					
Location	Vietnam Corporation	Cau Giay Distriet, HaNoi City					
	Factory 1	408-1, Bangchuk-ri, Sari-myeon, Goesan-gun, Chungcheongbuk-do					
	Factory 2	1029-19 Songjuk-ri, Daema-myeon, Yeonggwang-gun, Jeollanam-do					
Capital	3.85 billion						
Company employee	Headquarters : 20 people / Factory: 10 people						
Sales	15 billion (In 2024)						
Line of Business	Air environment construction, Mechanical and gas equipment installation, Structural demolition and scaffolding, Industrial plant construction, Steel structure works, Electrical contracting, Coating and plant operations						
License	Specialized air environment construction (No. 395), Specialized water environment construction (No. 561), Mechanical and gas equipment installation (Anyang-22-Pa-03), Electrical contracting (Gyeonggi-07098), Structural demolition and scaffolding (Anyang-23-Sa-02)						
Business partners	Samsung E&A, Samsung C&T, Samsung Display, Sebang Global Battery Co., Ltd (ROCKET battery), HANKOOK&COMPANY, SGC E&C, EcoPro, Corning Precision Materials Co., Ltd, Amkor Technology Korea, SUNGDO ENG, YOUNG POONG, NOMURA, enchem etc.						



ORGANIZATION

'Organization structure centered on research and development and customer satisfaction'



R&D

We carry out technology development, measurement, and analysis related to air quality and various environmental facilities.



Design and estimation

We provide services for practical design and suitable quotation for client's needs.



Sales and technical

We provide various range of services, from basic design of environmental facilities to various permit documents.



Business and construction

We provide comprehensive services for the manufacturing and on-site installation of environmental facilities.



Management and support

We manage the accounting, finance, and related administrative tasks of EM E&C

COMPANY HISTORY

2025	May.	Registered Water Environment Specialty Contractor (No. 561)
	Apr.	Participation in the ESG Management Program for Samsung E&A Partners
2024		Descripted the Minister of CMCs and Ctarture Arrand for Co. Creath
2024	Oct. Mar.	Received the Minister of SMEs and Startups Award for Co-Growth Registered as an Electrical Construction Business (Gyeonggi-07098)
	Mar.	Installation of fan production system (Goesan factory)
	Feb.	Completion of environmental facilities at Samsung Display Cheonan A1 site (Samsung Engineering)
	Jan.	Obtained the Specialized Company Certification for Materials, Parts, and Equipment
2023	Dec.	Certified as a Technology Innovation SME (Inno-Biz)
	Dec.	Registered as a partner supplier for Samsung Display Wet Electrostatic Precipitator
	Oct.	Participated in the technology development of Samsung E&A NON PACKING SCRUBBER
	Oct.	Established the Goesan Factory within the Sari Industrial Complex (12,562 m')
	Apr.	Registered as a structural dismantling and scaffolding business (Anyang-23-Sa-02)
	Mar.	Acquired exclusive license for the patent of 'Vertical Wet Electrostatic Precipitator'
	Mar.	Acquired exclusive license for the patent of 'Horizontal Wet Electrostatic Precipitator'
	Feb.	Obtained patent for 'Improved Marble Scrubber and Particle Removal Method Using It' (No. 10-2496219)
2022	Oct.	Obtained patent for 'Improved Venturi Scrubber and Particle Removal Method Using It' (No. 10-2458142)
	Sep.	Registered as an Innovative Growth Venture Company
	Sep.	Signed contract for scrubber installation project (1800 CMM x 8 units) and duct installation at Samsung Electronics Cheonan Plant
	Aug.	Signed delivery contract for environmental facility construction with Amkor Technology in Vietnam (1200 CMM and others x 7 units)
	Jul.	Signed delivery contract for electrostatic precipitators with LG Display Paju
	Jul.	Signed delivery contract for scrubbers at Samsung Electronics Pyeongtaek, Giheung-Hwaseong, and Cheonan plants
	Feb.	Registered as a mechanical gas facility construction business (Anyang-22-Pa-03)
2021	Nov.	Established a R&D center (Ministry of Science and ICT)
	Oct.	Occupational Health and Safety Management Certification (ISO 45001:2018)
	Sep.	Registered as a first-tier supplier for Samsung E&A
	Sep.	CEO Kim Young-Soo appointed
	Aug.	Registered as a specialized air quality environmental construction business (No. 395)
	Aug.	Environmental and Quality Management System Certification (ISO 14001:2015, ISO 9001:2015)
	May.	Established the Yeonggwang Factory within the Dema Industrial Complex (3,306 m)
2020	Jan.	Established EM E&C Co., Ltd.
		·

TECHNICAL MANPOWER

NAME	CLASSIFICATION	REGISTRATION NUMBER	CAREER	
V Kim	Air Quality Engineer	90201150067	20	
Young-soo, Kim	Water Quality Engineer	89203150242	30 years	
Tae-soo, An	Mechanical (Design, Construction) Expert Technician	G00919703	35 years	
	Industrial Safety Technician	23204260707C		
Kyoung-bok, Lee	Excavator Operator Technician	23806050031J	30 years	
/vung-ho Hwang	Water Quality Engineer	98204020860N	20 voar	
(yung-ho, Hwang	Civil Engineer	99204020716H	30 year	
inan wana Chana	Industrial Engineer (Gas)	96204050579C	20	
oon-yong, Chang	Construction Equipment Engineer Level 2	96205050306M	30 years	
	Electrical Engineer	99203100906A		
Sung-woo, Kim	Electrical Construction Engineer	00201100036Q	25 years	
	Fire Protection Engineer (Electrical Field)	99201100288J		
Seok-jo, Park	Electrical Construction	CP-2002-04665	13 years	
Jung-hoon, Kim	Mechanical/Design Industrial Engineer	08204240378M	13 years	
	Electrical Construction Engineer Level 2	98204050445R		
Seok-jun, Park	Senior Electrical Construction Technician	B4-2024-01330	23 years	
	Intermediate Electrical Construction Technician	C9-2002-04665		
Ji-bin, Lee	Computer-Aided Mechanical Drafting Technician	14405050265U	10 years	
	Air Quality Engineer	20505050528F		
In-ho, Hwang	Air Conditioning and Refrigeration Mechanical Industrial Engineer			
	Gas Industry Engineer	12201052009S		
Do ra Vang	Industrial Hygiene Management Engineer	24202102061U	7,4025	
Bo-ra, Kang	SQL Developer	SQLD-046012403	7 years	
Uvo won Issa	Air Quality Engineer	20204200057A	1	
Hye-won, Jang	Water Quality Engineer	20202200300E	1 years	
	Air Quality Engineer	962061001125		
Viving has Day-	Water Quality Environment Industry Engineer	91205010604U	20 years	
Kyung-hee, Bang	Industrial Hygiene Management Technician	94201011448F		
	Waste Disposal Industry Technician	922060115470		

EM ENGINEERING & CONSTRUCTION

FACTIRY & FACILITY STATUS

FACTORY 1

408-1, Bangchuk-ri, Sari-myeon, Goesan-gun, Chungcheongbuk-do, South Korea (Sari Industrial Complex)

Factory site: 12,785m, Manufacturing Facility: 1,437m, Auxiliary facilities (break room, office): 300m

Hoist	10t	2 ea	Drill Machine		1 ea
Forklift	5t	1 ea	Band Saw		1 ea
Hydraulic Bender	8-6t	1 ea	Hydraulic Cutter	10- 6t	1 ea
Corner Bending Machine		1 ea	Roller		1 ea
Compressor	10 HP	1 ea	Workbench		2 ea
Welding Machine		3 ea	Gantry Crane		1 ea



FACTORY 2

137, Electric Car 1-ro, Daema-myeon, Yeonggwanggun, Jeollanam-do, South Korea (Daema Industrial Complex)

Factory site: 3,306m, Manufacturing facility: 660m, Auxiliary facilities (break room, office): 108m

Hoist	5t	2 ea	Bending Machine	10 HP	1 ea
Forklift	5t	2 ea	Shearing Machine	10 HP	1 ea
Compressor	10 HP	2 ea	Hydraulic Cutter	10 HP	1 ea
Band Saw	20 HP	1 ea	Welding Machine		5 ea
Drill Machine	57	3 ea			



Occupational Health and Safety Management System Certification ISO 45001



Certificate of Registration

This is to certify that:

EM ENC CO., LTD.

(Gwawyang-dong) Rm.1415, #282, Hakeui-ro, Bongan-gu, Anyang-ti, Gyeonggl-do, Korea

Has been assessed by International Certification Registrar Ltd., in respect of their Occupational Health and Safety Management Systems and found to comply with

ISO 45001:2018

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope

Manufacture, Installation of environmental Equipment and Air Conditioning Device

Certification Date : 08th August 2024 Certificate Issue Date : 12th March 2025 Initial Issued Date: 01st October 2021
Expiration Date: 30th September 2027

Certificate No.: OHIE12824

IAF CODE: 18, 29

- if This cretificate is said by completion of squareflying might which is conducted within 12 months from the periodication date.
- . Buffer to appendix for detailed activities and location of early rice.

The Seal of JCR Limited was here to attixed in the presence of :

Janeyroug Sim

President





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Certificate of Registration

This is to certify that:

EM ENC CO., LTD.

(Gwanyang-dong) Rm.1413, #282, Haheni-ro, Dangan-ga, Anyang-si, Gyeonggi-da, Kaces

Has been assested by International Certification Registrar Ltd., in respect of their Quality Management Systems and found to comply with

ISO 9001:2015

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope

Manufacture, Installation of environmental Equipment and Air Conditioning Device

Certification Date: 08th August 2024 Initial Issued Date: 10th August 2021
Certificate Issue Date: 12th March 2025 Expiration Date: 09th August 2027

Certificate No.: Q1190824 IAF CODE: 18, 19

M. This certificate is valid by completion of surveillance upon which is conducted within 12 arouths from the certification date.

M. Refer to appendix for detailed architics and insation of each sales.

al Acu-applicable Requirement : 4.3

The Seal of ICR Limited was here to affixed in the presence of :

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Certificate of Registration

This is to certify that :

EM ENC CO., LTD.

(Gwanyang-dong) Res. 1415, #262, Hakeui-ro, Dougan-gu, Anyang-sk Gyconggi-do, Koren

Has been assessed by International Certification Registrar Ltd., in respect of their Environmental Management Systems and found to comply with

ISO 14001:2015

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope

Manufacture, Installation of environmental Equipment and Air Conditioning Device

Certification Date : 08th August 2024 Initial Issued Date : 10th August 2021 Certificate Issue Date :12th March 2025 Expiration Date : 09th August 2027

Certificate No.: E106721 1AF CODE: 18, 19

M. This contribute is valid by completion of purcettance much which is conducted within 12 mentio from the confidential date.

Refer to appendix for detailed activities and location of cock sites.

The Seaf of ICR Limited was here to affived in the presence of :

Variety oray from

President





(1) Professional Management (1) Professional Management



Certificate of Business registration (KOREA)

(1/1)

【국세청민원사무처리규정 제6호 서식】(2024.4.17.개정)



발 급 번 호 Issuance Number	사업자등록증명 Certificate of Business Registration	처 리 기 간 Processing Time		
0722-849-7862-110	(법인사업자) (Corporate Taxpayer)	즉 시 Immediately		
상 호 (법 인 명) Name of Business	주식회사 이엠이앤씨 EM E&C Co.,LTD (377-86-01771)			
사 업 자 등 록 번 호 Business Taxpayer ID Number	377-86-01771			
성 명 (대 표 자) Name of Representative 대 표 유 형 Type of Representation	김영수 KIM YOUNGSU (134111-0541529) 단독대표(Sole Representation)			
주 민 (법 인) 등 록 번 호 Resident(Corporation) Registration Number	134111-0541529			
사 업 장 소 재 지 Business Address	경기도 안양시 동안구 학의로 282, 1415호(관양동) B-1415, 282, Hagui-ro, Dongan-gu, Anyang-si, Gyeonggi-do, 14056, Republic of Korea			
개 업 일 Date of Business Start	2020년(Year) 01월(Month) 06일(Day)			
사 업 자 등 록 일 Date of Business Registration	202 <mark>0년(Ye</mark> ar) 01월(Month) 09일(Day)			
업 Business Type 종	제조업/건설업 Manufacturing/Construction 환경설비,공기조화장치 Manufacture of tanks and reservoirs			
Business Item	전문건설하도급 Building completion and finishing n.e.c.			
공 동 사 업 자 Joint Business Owner	성명(법인명) 주민(시 Name of Resident/Name of Business Resident Number/Bu 해당사항 없습니다 (No Data)	업자)등록번호 siness Taxpayer ID Number		
	위와 같이 증명합니다.			

위와 같이 증명합니다.

I certify that above information is true and correct to the best of my knowledge and belief.

※ 위 내용은 발급일 현재 상황으로서 추후 변경될 수 있습니다. This information is true as of the issuance date of this certification and but maybe subject to change in the future.

※ 영문 임의기재사항[상호, 성명(대표자), 업태, 종목, 상세주소]은 실체적 권리관계를 증명하는 효력이 없습니다. Arbitrary data written in English [Name of Business, Name of Representative, Business Address, Business Type, and Business Item] do not hold a power to prove substantive rights and responsibilities.

접 수 번 호 Receipt No.	504409931992
담 당 부 서 Department	민원봉사실 Taxpayer Assistance Center
담 당 자 Staff in Charge	
연 락 처 Telephone No.	+82-31-389-8225

2025 년(Year) 2 월(Month) 26 일(Day)



동안양세무서

Head of Donganyang District Tax Offic









본 증명의 위·변조 여부는 발급일로부터 90일 이내「국세청 홈택스(www.hometax.go.kr) 또는 모바일 홈택스 > 민원증명(증명발급) > 민원증명 원본확인」에서 발급번호로

본 증명의 위·면소 여우는 발립일도부터 90일 이내 '국제청 음력스(www.hometax.go.kr) 또는 모바일 음력스 인원증명(증명할답) > 인원증명 원본확인, 에서 발급원호로 확인, 또는 분석 하단의 바고프로 확인이 가능합니다. Please be advised that forgery detection of this document can be performed with either of following methods. 1) anytime with the barcode at the bottom of the document, or 2) with the issuance number of the document at either Hometax website (www.hometax.go.kr) or mobile Hometax (Certificate of civil petition (certificate issued) > Check the original certificate of civil petition) within 90 days from the date of issuance.

Certificate of Air Quality Environmental Construction Business Registration (KOREA)

등록번호 제395호

[●] 대 기 []수 질 []소음·전

환경전문공사업 등록증

1. 업 체 명: (주)이엠이앤씨

2. 대표자의 성명: 김 영 수

3. 대표자의 생년월일: 1965. 3. 25.

4. 환경전문공사업의 종류: 대기 환경전문공사업

5. 영업소 소재지: 경기도 안양시 동안구 학의로 282, 909호 (관양동, 금강펜테리움IT타워)

(전화번호: 031-337-6264)

- 6. 등록 조건: 「환경기술 및 환경산업 지원법」 제반규정을 준수할 것
- ① 변경등록 신청은 변경일로 부터 30일 이내에 하여야 함
- 대표자, 상호, 영업소 소재지, 전담기술인력, 실험기기 소재지, 측정분석 대행계약자 등
- ② 등록 후 2년 이내에 영업을 시작해야 하고 영업실적이 없는 기간이 2년을 넘기지 않아야 함 ※ 영업실적이 없으면 등록을 취소할 수 있음

「환경기술 및 환경산업 지원법」제15조, 같은 법 시행령 제22조의4 및 같은 법 시행규칙 제30조제4항에 따라 방지시설업의 등록을 하였음을 증명합니다.

2021년 8월 13일

경 기 도 지



Certificate of Water Quality Environmental Construction Business Registration (KOREA)



등록번호 제561호

[]대 기 [●]수 질 []소음·진동

환경전문공사업 등록증

- 1. 업 체 명: ㈜이엠이앤씨
 - 2. 디표자의 성명: 범명수
- 3. 태표자의 생년월일: 1965, 03, 25,
- 4. 환경천문공사업의 종류: 수절 환경전문공사업
- 5. 영영소 소재지: 경기도 인양시 동안구 학의로 282, B동 1415호 (진화번호: 031-334-6263)
- 6. 등목 조선: "환경기술 및 환경산업 지원법, 제반규정을 준수할 것
 - 1. 연경등록 신청은 변경일로 부터 30일 이내에 하여야 함
 - -- 대표자, 성호, 영업소 소세지, 전당기술인력, 실험기가 소재지, 측정문식 대맹계약자 등
 - (a) 등록 후 2년 이나에 영업을 시작해야 하고 영입실적이 없는 기간이 2년을 엄마지 않아야 함 ※ 병명실적에 없으면 등록을 위소할 수 있음

환경기술 및 환경산업 지원법, 제15조, 같은 법 시행령 제22조의4 및 같은 법 시행군식 제30조제4항에 따라 환경전문공사업의 등록을 하였음을 증명합니다.

2025년 5월 27일

경 기 도 자



Certificate of Mechanical Gas Facility Construction Business Registration (KOREA)

[범지 제3호 서식]

(앞쪽)

건설업등록증

1. 업종 및 주력분야: 기계가스설비공사업 (주력분야:기계설비공사)

2. 등록번호: 안양-22-파-03

3. 상호: (주)이엠이앤씨

4. 대표자 : 김영수

5. 주된 영업소 소재지 : 경기도 안양사 동안구 안양판교로 20 305동 에이층 14호(관양 동, 신한데뷰오피스텔)

6. 법인등록번호(생년월일): 134111-0541529

7. 국적(소속 국가명) : 대한민국

8. 등록일자: 2022.02.21

위 자는 건설산업기본법 제9조에 따른 건설사업자임을 증명합니다.

2022 년 2월 21일

경기도 안양시장



Certificate of Structural Dismantling and Scaffolding Construction Business Registration (KOREA)

[별지 제3호 서색] (앞 폭)

건설업등록증

1. 업종 및 주력분야 : 구조물해체 • 비계공사업 (주력분야:구조물해체 • 비계공사)

2. 등록번호 : 안먕-23-사-02

3. 상호 : (주)이엠이앤씨

4. 대표자 : 김영수

5. 주완 영업소 소재지 : 경기도 인양시 동안구 인양판교로 20 305동 에이층 14호(관양동, 신 한데뷰요피스턴)

6. 법인등록번호(생년월일) : 134111-0541529

7. 국적(소속 국가명) : **대한민국**

8, 등록밀자: 2023.04,24

위 차는 건설산업기본법 제9조에 따른 건설사업자임을 증명합니다.

2023 년 나 월 각일

경기도 안양시장



Electrical Construction Business Registration Certificate (KOREA)

제 > > 1-07098 호

전기공사업 등록증

상 호 주식의사 이엠이엔씨

대 표 자 김영수

법인등록번호(생년월일) 134111-0541529

영 업 소 경기도 안양시 동안구 학의로 282, 소 재 지 816호 (원양등, 금강뿐터리움아이터타워)

등록연월일 2024 년 03월 04일

「전기공사업법」제4조제1항에 따라 위와 같이 등록하였음을 증명합니다.

2024 년 03 월 04 일

경기도지



Specialized Company Certification for Materials, Parts, and Equipment (KOREA)



제 34334호

소재·부품·장비 전문기업확인서

기 업 명: (주)이엠이앤씨 (377-86-01771)

대 표 자: 김영수

소 재 지: 충청북도 괴산군 사리면 사리로 128 (주)이엠이앤씨

유 효 기 간: 2024.01.03~2027.01.02

위 기업은 「소재·부품·장비산업 경쟁력강화를 위한 특별조치법」 제14조 제2항 및 같은 법 시행규칙 제4조 제2항에 따라 전문기업임을 확인합니다.

2024.01.03

한국산업기술기획평



Certificate of venture enterprise (KOREA)

발급번호 제 20220907030013 호

벤처기업확인서

CERTIFICATE OF VENTURE ENTERPRISE



• 기업명 주식회사 이엠이앤씨

사업자등록번호 377-86-01771

• 대표자 김영수

• 주소 경기도 안양시 동안구 학의로 282 (관양동) 금강펜테리움

IT타워 B동 1415호

• 확인유형 혁신성장유형

• 유효기간 2022년 09월 07일 ~ 2025년 09월 06일

위 기업은 「벤처기업육성에 관한 특별법」 제25조의 규정에 의거 벤처기업임을 확인합니다.

2025년 02월 25일



이 확인서는 「벤처기업법」제25조의3(벤처기업확인기관의 지정 등)에 따라 지정된 벤처기업확인기관 ((사)벤처기업협회)이 벤처기업중합관리시스템을 통해 정보를 확인하고 발급한 확인서입니다. (벤처기업확인기관 지정기간 : '20.7.1~'26.6.30)

벤처기업 해당사유 : 벤처기업법 제2조의2제1항제2호 가목의 요건을 충족하는 벤처기업 (또는 나목의 요건을 충족하는 벤처기업, 또는 다목의 요건을 충족하는 벤처기업)









Certificate of In-House Research Institute Recognition (KOREA)

[문서번호: hKTb=JXHg=CsqM=ZLvj]

[방급약자: 2025년 03월 04일]

제 2021115779 호

기업부설연구소 인정서

1. 연 구 소 명: (주)야엠이앤씨 기업부설연구소

[소속기업명: (주)이앰이앤씨]

2. 소 재 지: 경기도 안양시 동안구 학의로 282

급감펜테리움IT타워 8동 1415호

3. 신고 연물일: 2025년 02월 24일 (최초인정일: 2021년 11월 11일)

변경내역: 현처기간 및 소재지 변경

™ R®기간: 20**25년 회 해변율**킹간판통신부

「기초연구진흥 및 기술개발지원에 관한 법률, 제14조의 2제1항 및 같은 법 시행령 제27조제1항에 따라 위와 같이 기업부설연구소로 인정합니다.



2025년 3월 4일

한국산업기술진흥협회



후 한국가장기술원클립로젝트 참당기물인데 "ellps (www.ind.or ta*ipin "분포는한)를 엄청한테 원부터한 및 와로운족 감옷할 수 있습니다.

Certificate of Inno-Biz (KOREA)



문서확인번호: 20250225880779

제 230601-01688호

기술혁신형 중소기업(Inno-Biz) 확인서

업 체 명 : 주식회사 이엠이앤씨

대 표 자 : 김영수

주 소 : 경기 안양시 동안구 학의로 282, 1415호(관양동)

등 급:AA

유효기간 : 2023. 11. 29 ~ 2026. 11. 28

위 업체는 기술혁신형 중소기업 육성사업에 의해 선정된 기술혁신형 중소기업(Inno-Biz)임을 확인 합니다.

2023년 11월 29일

중소벤처기업부



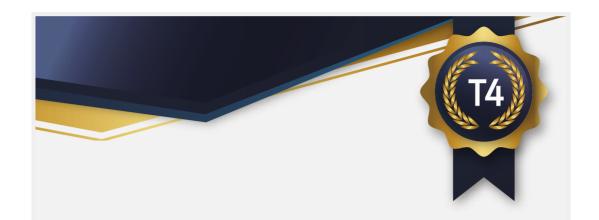






Google 플레이스토어/Apple 앱스토어에서 masmartdetector 앱을 설치하시면 발급문서 진위확인 검증을 할 수 있습니다.

Certificate of Excellence in Technological Capabilities (KOREA)



기술역량 우수기업 인증서

 (주)이엠이앤씨

 스크러버(Scrubber) 제조 기술

위 기업은 한국평가데이터의 기술평가 결과 기술 경쟁력 및 기술사업역량이 우수한 기업임을 인증합니다.



FTS-2024-00290 인증일자 2024, 08, 21, 유효기간 2025, 08, 20,

Minister of SMEs and Startups Award for Co-Growth (KOREA)



Patent Certificate for 'Improved Venturi Scrubber and Particle Removal Method Using It' (KOREA)



CERTIFICATE OF PATENT

특허

제 10-2458142 호

Patent Number

출원번호 Application Number 추외이

출원일 Filing Date 등록일

Registration Date

제 10-2022-0017735 호

2022년 02월 10일

2022년 10월 19일

발명의명칭 Title of the Invention

개선된 벤투리 스크러버 및 이를 이용한 입자의 제거 방법

특허권자 Patentee

주식회사 이엠이앤씨(134111-*******) 경기도 안양시 동안구 학의로 282,1415호(관양동)

발명자 Inventor

등록사항란에 기재

위의 발명은 「특허법」에 따라 특허원부에 등록되었음을 증명합니다.

This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.



특허청

Korean Intellectual Property Office 2025년 03월 11일



QR코드로 현재기준 등록사항을 확인하세요

특허청장 COMMISSIONER,

KOREAN INTELLECTUAL PROPERTY OFF



김완기

Patent Certificate for 'Improved Marble Scrubber and Particle Removal Method Using It' (KOREA)

특허증

CERTIFICATE OF PATENT

특허

제 10-2496219 호

Patent Number

출원번호 Application Number 출원일

출원일 Filing Date 등록일 Registration Date 제 10-2022-0034279 호

2022년 03월 18일

2023년 02월 01일

발명의명칭 Title of the Invention

개선된 마블 스크러버 및 이를 이용한 입자 제거 방법

특허권자 Patentee

주식회사 이엠이앤씨(134111-*******) 경기도 안양시 동안구 학의로 282,1415호(관양동)

발명자 Inventor

등록사항란에 기재

위의 발명은 「특허법」에 따라 특허원부에 등록되었음을 증명합니다.

This is to certify that, in accordance with the Patent Act, a patent for the invention has been registered at the Korean Intellectual Property Office.



특허청

Korean Intellectual Property Office 2025년 03월 11일



KOREAN INTELLECTUAL PROPERTY OFFICE

2 2 2



QR코드로 현재기준 등록사항을 확인하세요



Exclusive License for Horizontal Wet Electrostatic Precipitator (KOREA)

순위번호	사한	
	(전용실시권의 설정등록)	
	등록 의무자: (주)에코슬루틱	
	인권광역시 연수구	
	전용실시권자: (주)이엠이앤피	
	경기도 연양시 동안구	
112	등 록 원 인 : 설정계약	
	전용실시권의 행위	
	기간: 2023년 03월 08일부터 2025년 03월 07일까지	
	지역 : 대한민국 전역 (전국)	
	실시내용: 특허법 제 2조 제 3호에 규정한 일제의 실시행위	
		2023년 03월 08일 등



제 10-1474878 호 출원전호

제 2013-0105815 호

(PATENT NUMBER)

충원일 PLRG DATE TYME/DD

2013년 09월 04일

등 목 일 2014년 12월 15일 GEOSTRATION DATE:YYAMADOL

발명의명칭 (TITLE OF THE INVENTION)

조립식 집진국 스페이서를 갖는 수평형 습식 전기집진기

특허권자 (PATENTEE)

(주)에코솔부택(120111-0*****)

인천광역시 연수구 송도미래로 30, 에이동 802호(송도동, 송도스마 트밸리)

발명자 (INVENTOR)

황유성(651120-1*****)

인천 연수구 동곡재로 117번질 22, 106동 506호 (동춘동, 대 우3차아파트)

위의 발명은 「특허법」에 따라 특허등록원부에 등록 되었음을 증명합니다.

(THIS IS TO CERTIFY THAT THE PATENT IS REGISTERED ON THE REGISTER OF THE KOREAN INTELLECTUAL PROPERTY OFFICE.)

2014년 12월 15일





연차등목로는 2017년부터 매년 12월 15일까지 남부하여야 하며, 등록원부로 권리관계를 확인바랍니다.

Exclusive License for Vertical Wet Electrostatic Precipitator (KOREA)

	전 용 설 시 권 자 란	
순위번호	사한	
	(전용실시권의 설정등록)	
	등록 의무자 : (주)에코슬루덕	
	연전광역시 연수구	
	박진성	
	연천광역시 연수구	
	전용실시권자: (주)이명이앤씨	
1년	경기도 만영시 용안구	
	등 목 원 인 : 설정계약	
	전용실시권의 범위	
	기간: 2023년 03월 08일부터 2025년 03월 07일까지	
	지역: 대한민국 전역(전국)	



Factory Registration Certificate - Goesan (KOREA)

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			2023/3/11/5	10일	나이중	:1	
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선물경기 참무기 소설시 결 신설명	(활성화 및 공상설 괴산군 (문 및 영 (전) - 출 (조리	♦ •	2023년 11월 전 위하 취리 절차 왕민무	(전명 성인 : 1 경기 지역기원 (전에 따라 위학	140 중 수 08 중인동이 휴면서 발 취리기관 알이 등록된 공	: - [다명 또는 (동 동건 하리기다
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Factory Registration Certificate - Yeonggwang (KOREA)



문 어린 인터 5.1 1629-7898-9332-9444

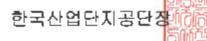


공장등록증명(신청)서

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	회사명			건회번호			
	(취)이었어면서			010-5229-6077			
	아크지 성명			생년월일[법인등록변축]			
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2021년 08월 24일









총본 승경자는 위터넷으로 연결되었으며, 첫부(alfgorde)의 인터 그렇글부터워워워인 미국을 통해 또 본수 이모를 하면할 수 있습니다.(방급의 로부터 양일까지) 또한 부동하면의 화고두로두 한편하는) 경우(alf See 스카네티 콘서탈인프로그램)을 하고 수 있습니다.

WHAT WE DO

Air Quality Environmental Construction Industry

We provide a system installation service that accurately identifies the characteristics of exhaust gases and particulate matter, and removes high concentrations of pollutants using a low-cost, high-efficiency system.

Water Quality Environmental Construction Industry

We offer high treatment efficiency and stable water treatment technologies, focusing on design, manufacturing, and construction that prioritize ease of maintenance.

Mechanical Gas Facility Construction Business

With extensive experience in the construction of storage tanks, various steel structures, as well as factory production line facilities and piping work, we diligently carry out construction and utility work for paper mills, food production line buildings, and pipe rack projects.

Structural Dismantling and Scaffolding Construction Business

We provide services for the dismantling of structures, as well as the installation and dismantling of scaffolding, required for the installation of air quality, water quality, and other environmental facilities.

Electrical Construction Business

We provide a one-stop service from design to construction for electrical panels, trays, wires, and other electrical components required for equipment such as fans, pumps, electrostatic precipitators, and various measuring instruments.

Environmental Consulting and Permit Services

Based on years of accumulated technology and expertise in the environmental field, we provide accurate and prompt answers to all inquiries related to the environment, including factory establishment, expansion, operation, and maintenance of existing facilities.





Hybrid Venturi Scrubber

Wet venturi scrubber system

It is composed of a Venturi tube with a throat and a cylindrical cyclone for separation. The contaminated gas is sprayed at high speed, causing it to collide with the high-speed sprayed scrubbing liquid. In the dispersion section, the system ensures sufficient contact to remove both particulate matter and gaseous substances simultaneously. This is a Wet Venturi Scrubber system.









Marble Scrubber

Scrubber using glass beads

The gas that passes through the fluidized glass bead filtration layer creates small bubbles. These bubbles surround the dust particles, forming a large contact area and resulting in high dust collection efficiency. Water droplets and gas flow smoothly between the glass beads, reducing pressure loss. The oscillation of the beads prevents clogging while effectively treating particulate matter.









Lameller Venturi Scrubber

Venturi structure added to the lameller

This system features a Lamellar mist structure with the addition of a Venturi plate. The Venturi throat maximizes the gas-liquid contact area, and the negative pressure and inertia forces within the zig-zag structure allow for the treatment of aerosols such as HCl, HF, NH3, mist, and dust. The system is composed of components including the Venturi plate, spray part, pre-eliminator, vinyl rock filter, and lamellar element.











Lameller Mist Seperator

Scrubber using a lamellar structure

It is a device that sprays water onto a filter installed in the direction of airflow to maximize particle removal, and processes mist, dust, and aerosols using negative pressure and inertia forces in the separator. It is composed of components such as Vinyl Rock Filter and Lamellar Element. The main applications include use in acid lines, surface treatment gases, and various mist treatment systems.











Packed Tower Scrubber

Scrubber using a packing

This is the most commonly used exhaust gas treatment facility. When exhaust gas containing harmful substances passes through a packing layer with a large specific surface area, a scrubbing liquid is sprayed to contact the droplets and liquid film formed in the packing layer with the contaminated gas. This allows for the physical absorption or chemical treatment through neutralization reactions, effectively removing particulate matter and gaseous substances. It is a liquid dispersion-type absorption device.







Chemical Scrubber

Scrubber using chemical treatment

This facility achieves optimal removal efficiency for both low and high concentrations of deodorization, while also being capable of removing powders. It accurately supplies the appropriate chemical solution according to changes in gas concentration, ensuring optimal treatment efficiency for various odors and harmful gases. We provide the most suitable deodorization facility installation by identifying the sources and causes of odor pollution, creating a comfortable working environment.









Activated Carbon Tower

VOC treatment facility using activated carbon

This method involves physically and chemically adsorbing the adsorbates onto the adsorbent, using the principle of van der Waals forces for the movement of particles. One of the drawbacks is that the adsorbent must be replaced when it reaches a certain breaking point, and it is also vulnerable to fires. This system is primarily used for the treatment of VOCs (Volatile Organic Compounds) and odors.







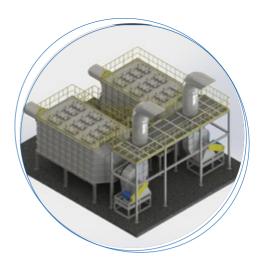


Upward-flow filtration dust collection system

The upward-flow filtration dust collection system is the most widely used facility for particle removal. It passes exhaust gases through a filter bag in an upward flow direction, utilizing mechanisms such as inertial collision, direct collision, diffusion, and interception to capture particles. This system is applied in various industries, including cement, metal processing, food factories, ceramics, rubber, textiles, grains, steel, casting, woodworking, and other industrial sites.







Hybrid Bag Filter

Downflow filtration dust collection system

This device improves the pressure loss and dust issues of the commonly used upward-flow bag filter by changing the airflow direction from top to bottom, capturing particles in the process. The downflow system, combined with an off-line system and high-pressure backwash dust collection, offers significantly higher dust removal efficiency compared to the traditional upward-flow filtration dust collection system.







Hybrid filter Scrubber

Scrubber using Hybrid filter

This system was developed to address the drawbacks of traditional packed tower scrubbers, including gas bypassing, low treatment efficiency, clogging of the packing layer, and long maintenance and cleaning times. The cartridge-type packing material increases the specific surface area, enhancing treatment efficiency and minimizing clogging issues. Additionally, the system is designed to minimize its physical size and standardize the structure, thereby reducing maintenance costs and time.













The regenerative combustion system is a technology that thermally oxidizes VOCs (volatile organic compounds) at temperatures above their ignition point, breaking them down into H2O and CO2. The feature of our product is a direct combustion energy-saving incinerator that uses a regenerative material as the thermal storage medium. This technology not only removes organic solvents and organic odors but also recovers the combustion heat into the thermal storage medium, preventing air pollution and allowing the recovered waste heat to be used as a heat source in production processes.







CTO

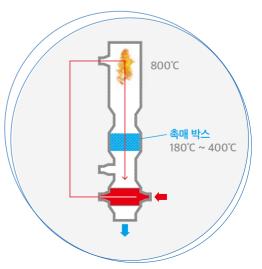
Catalytic Thermal Oxidizer

The VOCs are oxidized at lower temperatures using a catalyst, similar to RTO (Regenerative Thermal Oxidizer), by lowering the activation energy, which leads to energy savings and reduces the formation of secondary by-products. While the catalyst can fully oxidize VOC compounds (high efficiency), some high boiling point compounds may still undergo incomplete combustion at temperatures of 800-850°C, potentially generating carbon residues. Additionally, the presence of catalyst poison substances (such as P, Si, S, Cl, etc.) may require a pretreatment process, making its application more challenging.









Duct

From design to installation

The ducts are used for air or gas ventilation and transmission. Depending on the gas velocity, there are low-speed ducts (with airflow speeds of 15 m/s or less) and high-speed ducts. The material and thickness of the ducts, such as FRP, PVC, and STEEL, are determined based on factors like the corrosiveness of the emitted hazardous gases and fumes, temperature, moisture, viscosity, concentration, and airflow speed.



FAN



A fan is a device that creates air flow and applies pressure to move gas through the impeller. When resistance to corrosion and chemicals is required due to chemical substances, FRP material is used. For high-temperature or abrasive air intake conditions, metals such as SS 400 or STS 304 are used for manufacturing.

FRP tank & cover

High corrosion resistance

FRP, which has the highest strength and low coefficient of thermal expansion among plastics, is easy to bond with metals and has sufficient structural strength. It is widely used for covers in wastewater treatment plants and sewage treatment plants.

Various purification facilities and storage tanks made from FRP, known for its strong corrosion resistance and internal corrosion resistance, are widely used. We manufacture and deliver these FRP tanks tailored to our customers' specific requirements.

































Goesan factory opening ceremony







Vietnam Field Workshop









Construction performance —

Client (Main Contractor)	Country	Project name	Work scope	Year of construction
Lotte Chilsung Beverage	Republic of korea, Anseong	Lotte Chilsung Beverage Scrubber (200CMM) Manufacturing and Installation	Scrabble manufacturing and installation	2020-01-10
Lotte Chilsung Beverage	Republic of korea, Anseong	Lotte Chilsung Beverage Air Conditioning Facility Steel Frame Reinforcement Work, Pipe Demolition Work, and Cooling Tower Installation Work	Steel reinforcement work, pipe removal work, cooling tower installation work	2020-03-03
Hankook & Company Co., Ltd.	Republic of korea, Jeonju	Manufacturing and installation of mist treatment device (1200CMM)	Mist treatment device manufacturing and installation	2020-04-06
Sebang Battery	Republic of korea, Gwangju	Replacement of Sebang Battery Environmental Equipment (400CMM * 5 units)	Environmental facility replacement work	2020-04-20
Youngpoong Refinery	Republic of korea, Seokpo	Yeongpung Refinery Zero Discharge Wastewater Treatment Machine, Distillation Tower Installation and Machinery Facility Insulation Work	Wastewater treatment machine, distillation tower installation work, mechanical equipment insulation work	2020-07-06
Dongwon Systems	Republic of korea, Hoengseong	Dongwon Systems Scrubber (170CMM) Manufacturing and Installation	Scrabble manufacturing and installation	2021-07-28
CJ	Pakistan	CJ Wastewater Treatment Plant Deodorization Facility Manufacturing and Delivery (150CMM)	Manufacturing and supply of deodorizing facilities	2020-10-06
Youngpoong Refinery	Republic of korea, Anseong	Yeongpung Refinery Zero Discharge Wastewater Treatment Pipe and Insulation Work and Pipe Tracing (200 ton/day)	Pipe insulation and pipe tracing	2021-08-30
Dongil E&C Co., Ltd.	Republic of korea, Jeonju	Improvement of environmental facilities of Dongil Aluminum (500CMM * 2 units)	Environmental facility improvement	2020-12-28
Hwacheon Qigong	Republic of korea, Anseong	Manufacturing and installation of atmospheric environment equipment (1,000CMM x 2 units) & activated carbon injection facility (33,000cmh x 2 units)	Manufacturing and installation of atmospheric environment equipment and activated carbon injection facilities	2021-03-02
Yeong-in	Republic of korea, Gangneung	Manufacturing and installation of Yeong-in thermal power coal transport TRIPPER CAR	Coal Transport TRIPPER CAR Manufacturing and Installation	2021-02-01
Hwacheon Machinery	Republic of korea, Gangneung	Hwacheon Machinery Processing Environmental Equipment Duct Manufacturing and Installation (1,250CMM * 5 units)	Environmental facility duct manufacturing and installation	2021-08-31
Hankook & Company Co., Ltd.	Republic of korea, Jeonju & Deajeon	AGM LINE Scriber Installation (500CMM*1 unit), Modification Work (1,200CMM*1 unit), Dust Collector Maintenance Work, Air Pollution Facility Maintenance Work	Scrabbar installation and maintenance of air-conditioning facilities	2021-05-31
Shinwon Machinery Co., Ltd.	Republic of korea, Yeonggwang-gun	Manufactured and installed 14 Sasang booths for Hwacheon Machinery (120 tons)	Thought booth production and installation	2021-05-07
Sebang Battery	Republic of korea, Gwangju	Replacement of Sebang Battery Pollution Equipment (600CMM*4 units)	Replacement of pollution facilities	2020-04-20

Youngpoong Refinery	Republic of korea, Taebaek	Youngpoong Refinery Ozone Supply System Machine Installation	Ozone supply system mechanical installation	2021-08-30
NSELC	Republic of korea, Sunchang-gun	Wastewater treatment plant construction	Facility construction	2021-06-10
Samsung Engineering	Republic of korea, Asan Tangjeong	Samsung Display Cleanroom Conversion Project, Retrofit Scrubber Modification Installation Project	Cleanroom conversion project, Retrofit Scrubber renovation installation project	2021-10-08
Sebang Battery	Republic of korea, Gwangju	Improvement of pollution prevention facilities at the melting furnace of Sebang Battery Republic of korea, Gwangju Plant 4 (300CMM*1 unit, marble production and installation)	Pollution prevention facility improvement project	2022-01-05
Hankook & Company Co., Ltd.	Republic of korea, Deajeon	Daejeon Plant CRS Dust Collector Replacement Project (600CMM*1 unit, Demolition and Duct Construction)	CRS dust collector replacement work	2021-12-24
Youngpoong Refinery	Republic of korea, Taebaek	Yeongpung Refinery Zero Discharge Wastewater Treatment Phase 2 Installation Project	Zero discharge wastewater treatment installation	2022-04-12
Seongdo Engineering Co., Ltd.	Vietnam	Amkor Technology Vietnam/ Philippines Expansion Project Atmospheric Environment Equipment Design	Air Environment Facility Design	2022-08-31
Samsung Engineering	Republic of korea, Asan Tangjeong	Samsung Display Tangjeong Plant HMDS Scrubber Additional Construction	Additional Scrabble Construction	2021-10-08
Hankook & Company Co., Ltd.	Republic of korea, Deajeon	Spraying/Mixing Environment Facility Construction (B/F 450 CMM, Marble 80CMM)	Environmental facility construction	2022-05-02
Sebang Lithium Battery	Republic of korea, Gwangju	Activated carbon injection facility (18,000cmh * 1 unit)	Installation of activated carbon injection facility	2022-04-14
Hankook & Company Co., Ltd.	Republic of korea, Deajeon	Manufacturing and installation of bag filters (130CMM x 2 units) and adsorption towers (130CMM x 2 units)	Back filter manufacturing and installation	2022-05-17
Hankook & Company Co., Ltd.	Republic of korea, Jeonju	Marble scrubber (250CMM x 1) production and installation	Marble Scrabble Fabrication Installation	2022-05-30
Samsung Electronics	Republic of korea, Pyeongtaek	Samsung Electronics P2 Retropit Scrubber Manufacturing and Delivery (9 Units)	Retropit scrubber production and delivery	2022-06-20
Samsung Electronics	Republic of korea, Pyeongtaek	Samsung Electronics P3 Retropit Scrubber Manufacturing and Delivery (9 units)	Retropit scrubber production and delivery	2022-06-20

Sebang Battery	Republic of korea, Gwangju	22-year public hazard facility replacement project (2 units)	Public hazard facility replacement work	2022-06-30
Hankook & Company Co., Ltd.	Republic of korea, Jeonju	3rd Plant Environmental Equipment Construction (7 units)	Environmental facility construction	2022-06-10
LG Display	Republic of korea, Paju	LG Display Electric Precipitator Manufacturing (2 Units)	Manufacturing of electric precipitator	2022-07-12
Samsung Engineering	Republic of korea, Hwaseong	Samsung Electronics 16-2, V1L PRE POST SCRUBBER Manufacturing and Installation	PRE POST SCRUBBER manufacturing and installation	2022-08-17
E-Tech Construction	Vietnam	Amkor Technology Vietnam Environmental Equipment Manufacturing (1200CMM x 7 Units)	EPC	2022-08-31
Samsung Display	Republic of korea, Cheonan	C3 Finish FM FRP Duct Construction	Duct work	2022-10-04
Hankook & Company Co., Ltd.	Republic of korea, Deajeon	Manufacturing and installation of 700CMM dust collector for Republic of korea, Hwaseong process work environment improvement project	Dust collector manufacturing and installation	2022-11-16
Dongwon Systems	Republic of korea, Hoengseong	Manufacturing and installation of WET SCRUBBER by Dongwon Systems, Hoengseong	WET SCRUBBER manufacturing and installation	2023-04-06
Corning Precision Materials	Republic of korea, Cheonan	KN13/16 Standby Prevention CSCR Normalization Facility Construction	Construction of CSCR normalization facility for air pollution prevention	2023-04-24
Samsung Engineering	Republic of korea, Cheonan	A3 BAC Tower Internal Piping Maintenance Work	BAC Tower internal piping maintenance work	2023-05-23
Amkor Technology Korea	Republic of korea, Gwangju	Overhaul work for Sanbaegi #2 + Scrubber (1000CMM) maintenance work	Overhaul construction + Scrubber repair construction	2023-06-12
Enchem	Hungary	Enchem AC Tower & Scrubber Manufacturing	AC Tower & Scrubber Manufacturing	2023-07-31
Dongil E&C Co., Ltd.	Republic of korea, Asan	SDC Tangjeong A6 ITP-PJT standby construction, SCR renovation construction	Waiting construction, SCR renovation construction	2024-01-25
Samsung Display	Republic of korea, Hwaseong	Giheung SDR New Construction Green Center PJT	SDR construction project	2024-02-01

Sebang Lithium Battery	Republic of korea, Gwangju	Installation of air pollution prevention facilities at the 2nd line of the VOLVO Republic of korea, Gwangju plant	Installation of air pollution prevention facilities	2024-02-23
Hankook & Company Co., Ltd.	Republic of korea, Jeonju	7-line expansion environmental equipment	Environmental equipment expansion	2024-06-10
Hankook & Company Co., Ltd.	Republic of korea, Jeonju	7-Line Expansion COS Booth	COS Booth expansion	2024-06-10
Amkor USA	USA	Amkor USA Environmental Facility Design	Environmental facility design	2024-04-25
Ministry of Defense	Republic of korea, Pyeongtaek	2nd Fleet Plating Line Environmental Equipment Replacement	Environmental equipment replacement	2024-04-29
Sebang Battery	Republic of korea, Gwangju	24 years of pollution prevention equipment replacement and maintenance work	Replacement and maintenance work for aging pollution prevention facilities	2024-07-26
Hankook & Company Co., Ltd.	Republic of korea, Deajeon	Replacement of Mixed Dust Collector #3, #4	Mixed dust collector replacement work	2024-07-23
Hankook & Company Co., Ltd.	Republic of korea, Deajeon	Top-off lamella dust collector installation work	Lamella dust collector installation work	2024-08-07
Hankook & Company Co., Ltd.	USA	Tennessee Plant SCRUBBER Maintenance Work	Scrubbar maintenance work	2024-11-06
Hankook & Company Co., Ltd.	USA	Tennessee Plant Coating & Assembly Line Environmental Equipment Consulting work	Environmental Equipment Consulting work	2024-11-06
Hankook & Company Co., Ltd.	USA	Tennessee Plant Coating & Assembly Line Environmental Equipment Expansion	Fabrication and installation of two bag filters	2025-02-04
Amkor Technology Korea	Republic of korea, Incheon	Environmental construction to expand the rooftop exhaust system of the manufacturing building at the Songdo plant	AC Tower & Scrubber manufacturing and installation	2025-09-29

