



Leading Supplier of IoT & EV Charger

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EV Charger & Charging Business

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Company Overview

CASTPRO Moving Ahead with Cutting-Edge Technology

Company Overview

Company Name

CASTPRO Co., Ltd.

Date of Establishment

2014. 01. 06

Homepage

www.castpro.kr

Location

Jungwon-gu, Seongnam-si,
Gyeonggi-do

Major Business

Development and manufacturing of electric vehicle chargers
 Electric vehicle charging business solutions
 Development and manufacturing of wireless network-based IoT module/device

Sales (2022)

32.6 billion KRW

Capital

1.6 billion KRW

No. of Employees

27



Seongnam
Head Office



Seongnam
R&D Center



Cheonan
Factory



CEO Lee Jae-ho

Bachelor of Engineering from Seoul National University of Science and Technology of Engineering/Architectural Design
 Electronics/Wireless Communications
 (25 years of experience in the same industry)
 Samsung Electronics Co., Ltd., Hanaro Info-Telecom Co., Ltd.
 G-Max I&C Co., Ltd., Jiwumedia Co., Ltd.

Management
Support

Finance

HR/General Mgmt.

CS

Sales

Domestic Sales

International Sales

Charging Infra.

R&D Center

Develop. Planning

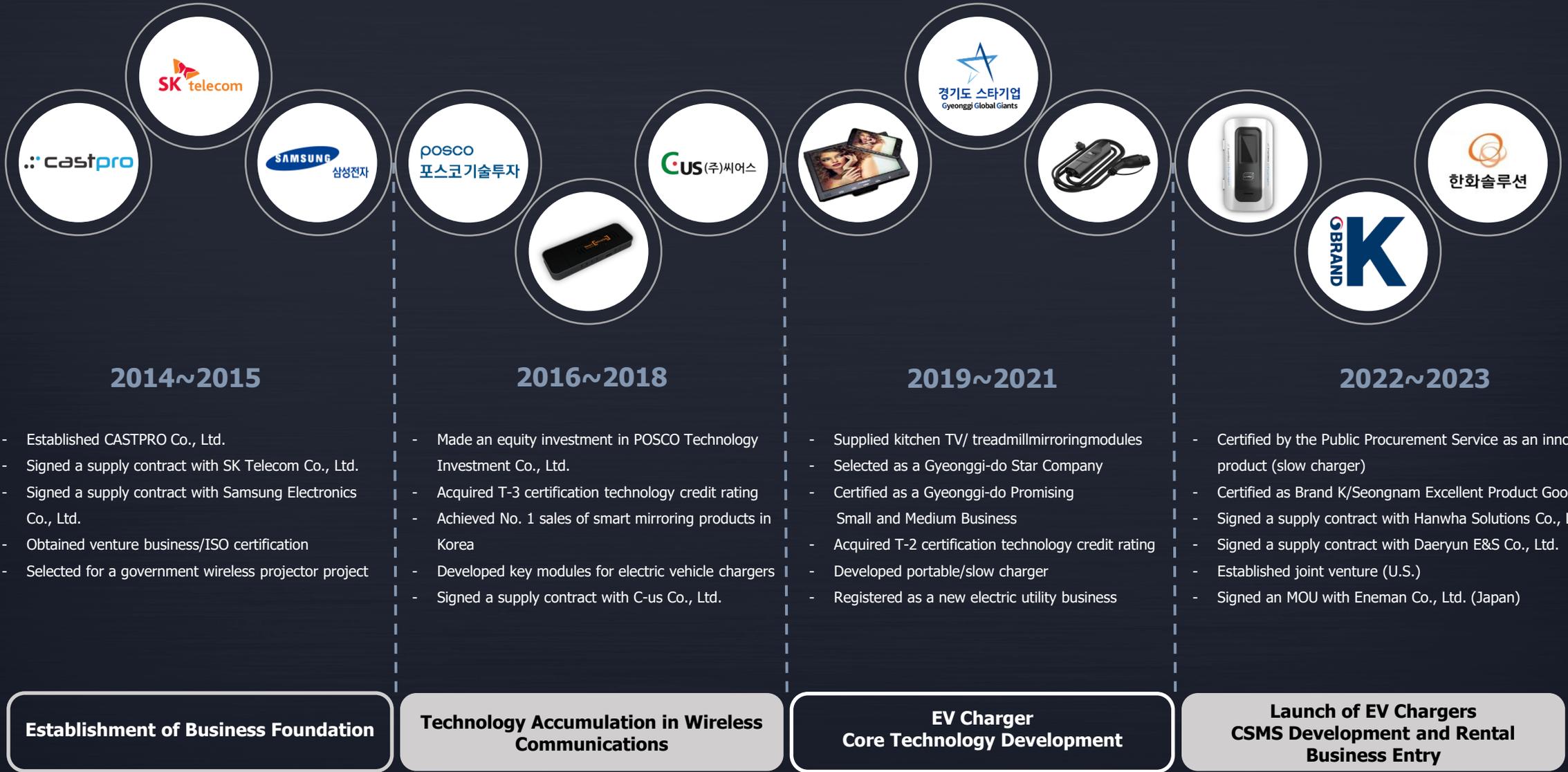
Charging Platform

H/W S/W

CASTPRO

proudly presents a full lineup of EV chargers (portable, slow, rapid) and self-developed CSMS to provide the **Total Solution** necessary in the charging business.

History



2014~2015

- Established CASTPRO Co., Ltd.
- Signed a supply contract with SK Telecom Co., Ltd.
- Signed a supply contract with Samsung Electronics Co., Ltd.
- Obtained venture business/ISO certification
- Selected for a government wireless projector project

Establishment of Business Foundation

2016~2018

- Made an equity investment in POSCO Technology Investment Co., Ltd.
- Acquired T-3 certification technology credit rating
- Achieved No. 1 sales of smart mirroring products in Korea
- Developed key modules for electric vehicle chargers
- Signed a supply contract with C-us Co., Ltd.

Technology Accumulation in Wireless Communications

2019~2021

- Supplied kitchen TV/ treadmill mirroring modules
- Selected as a Gyeonggi-do Star Company
- Certified as a Gyeonggi-do Promising Small and Medium Business
- Acquired T-2 certification technology credit rating
- Developed portable/slow charger
- Registered as a new electric utility business

EV Charger Core Technology Development

2022~2023

- Certified by the Public Procurement Service as an innovative product (slow charger)
- Certified as Brand K/Seongnam Excellent Product Goods
- Signed a supply contract with Hanwha Solutions Co., Ltd.
- Signed a supply contract with Daeryun E&S Co., Ltd.
- Established joint venture (U.S.)
- Signed an MOU with Eneman Co., Ltd. (Japan)

Launch of EV Chargers CSMS Development and Rental Business Entry

EV Charger



Development and manufacturing of Android OS-based EV chargers



Development of U.S.-targeted slow chargers
NRTL certification in progress



Possession of 200 kW rapid charger development technology



Development of Japan-targeted slow chargers
JARI certification in preparation



Possession of slow charger recognized as an innovative product by the Public Procurement Service



Slow charger development for overseas export
CB Report in progress

EV Charging Business



Development and operation of charger integrated operating system

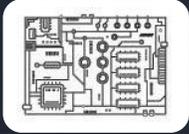


Operating system rental business
Total Solutions in charging business provided



Charging infrastructure construction project
Charger consignment operation business

Android Embedded Board



Development and manufacturing of Embedded Board



Development and supply of Korea's first mobile OS-based EVI module



Commercialization support with customization Industrial equipment controllers supply

Smart Mirroring and IoT Devices



Development and manufacturing of a wireless device for wireless data communication systems

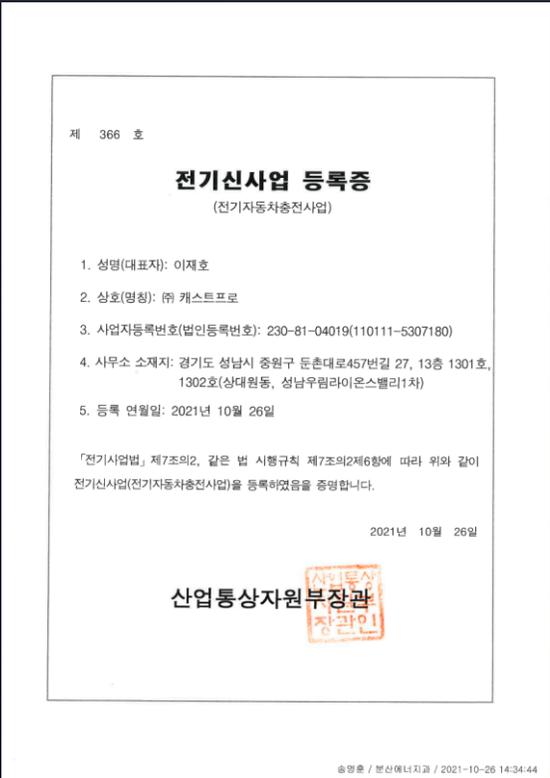


Possession of firmware data secured with the finest compatibility and safety



Possession of modularization and product convergence tech. B2B supply to education/healthcare/construction companies

Certification Status



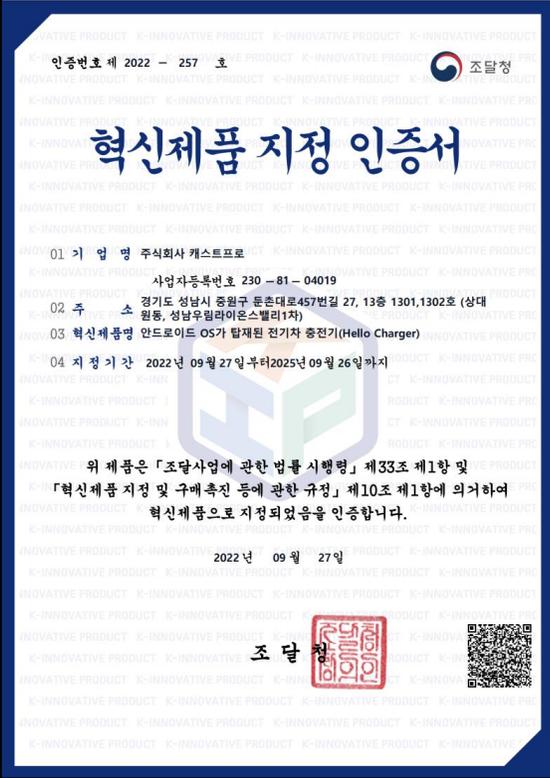
New Electric Utility Business Registration Certificate



OCPP

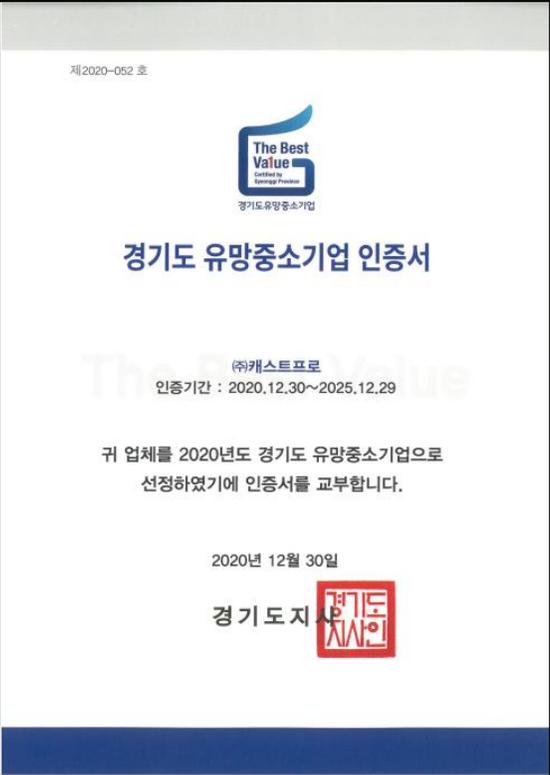


Brand K Certificate

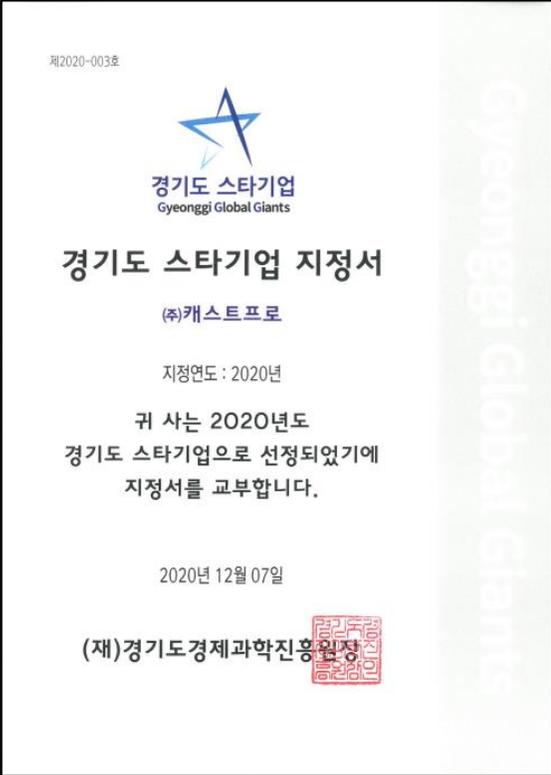


Innovative Product Designation Certificate

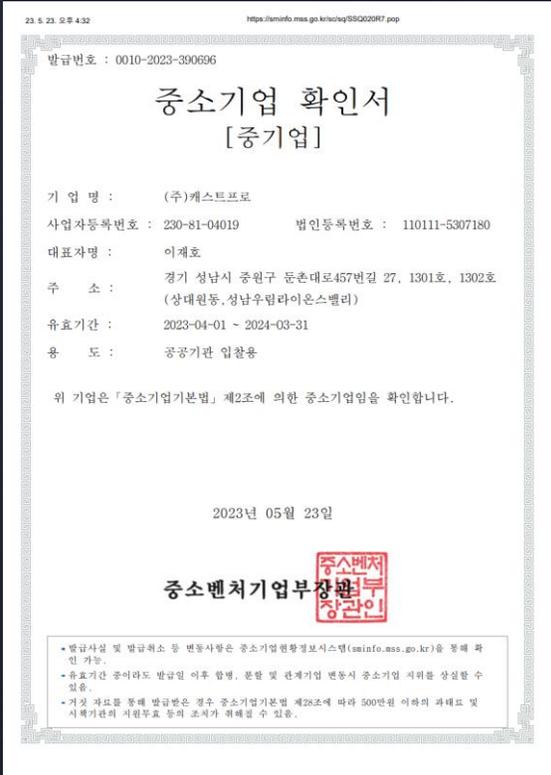
Certification Status



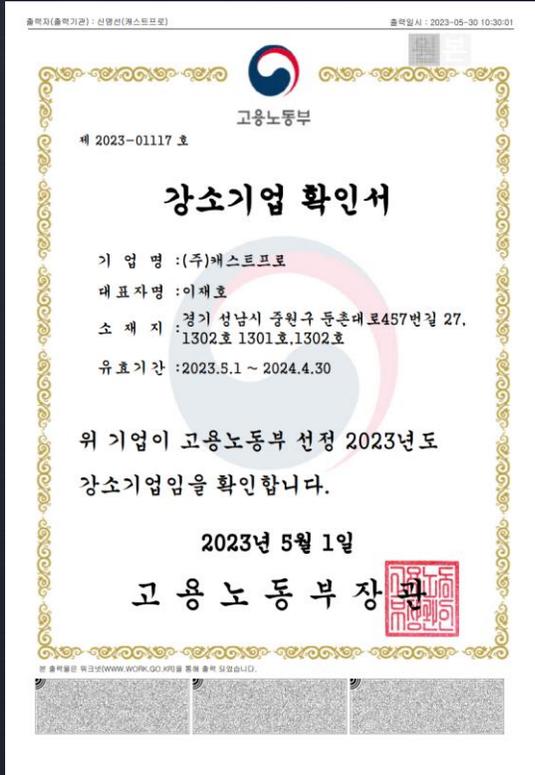
Gyeonggi-do Promising Small and Medium Business Certificate



Gyeonggi-do Star Company Designation Certificate

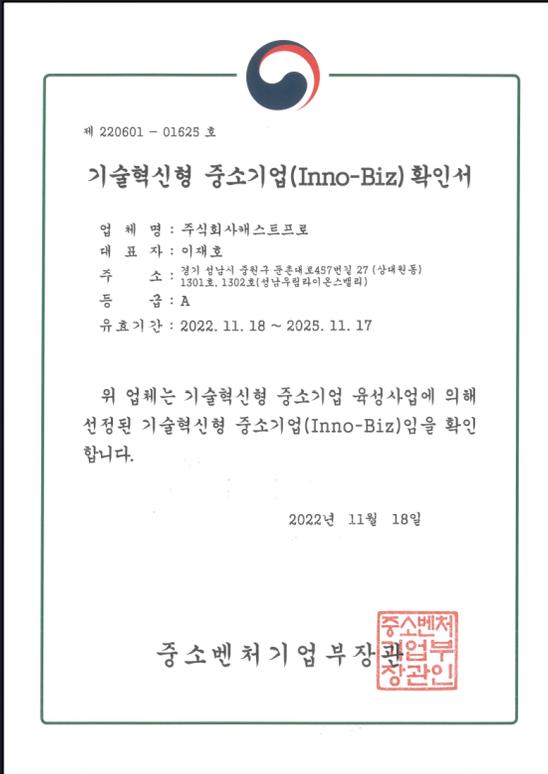


SME Certificate

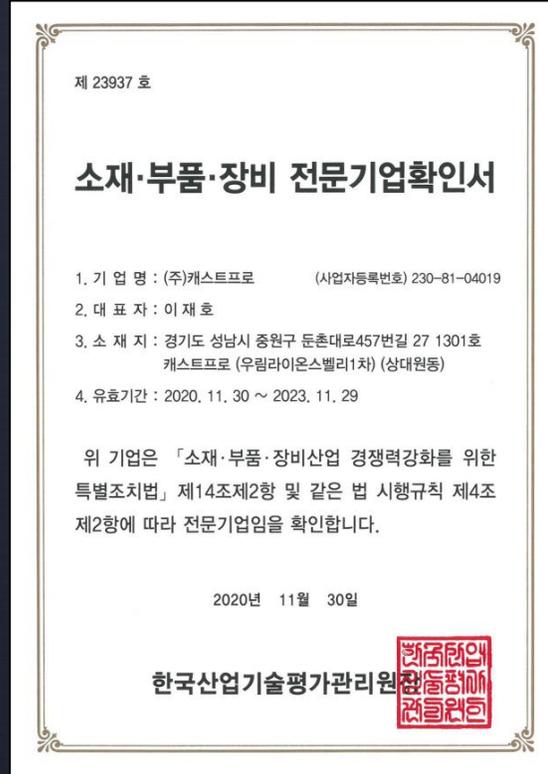


Valuable SME Certificate

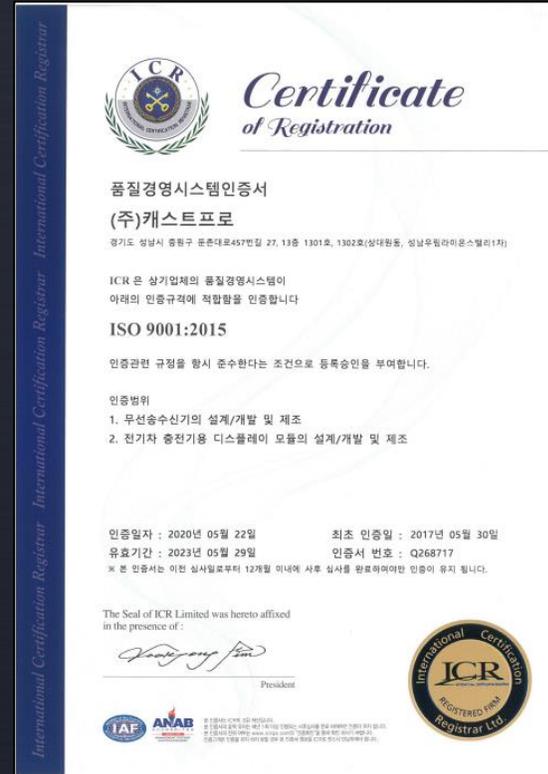
Certification Status



Inno-Biz Certificate



Materials · Components · Equipment Specialized Enterprise Certificate



Quality Management System Certificate



Corporate Affiliated Research Institute Certificate

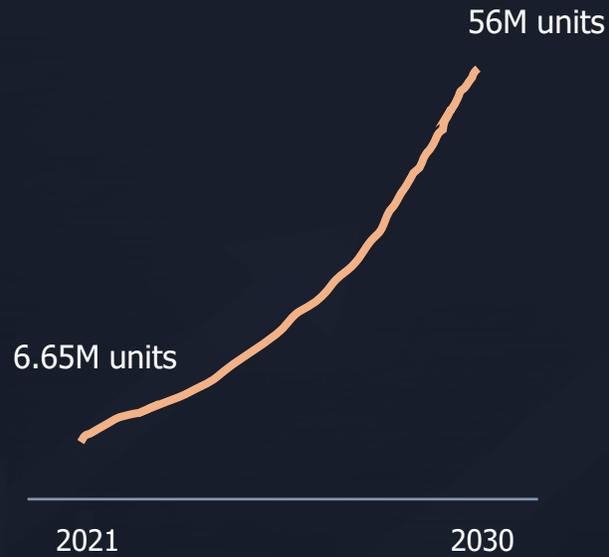
EV Charger and Charging Business

Electric Vehicle Infrastructure, Preparation for the World to Come

Global EV Market Forecast

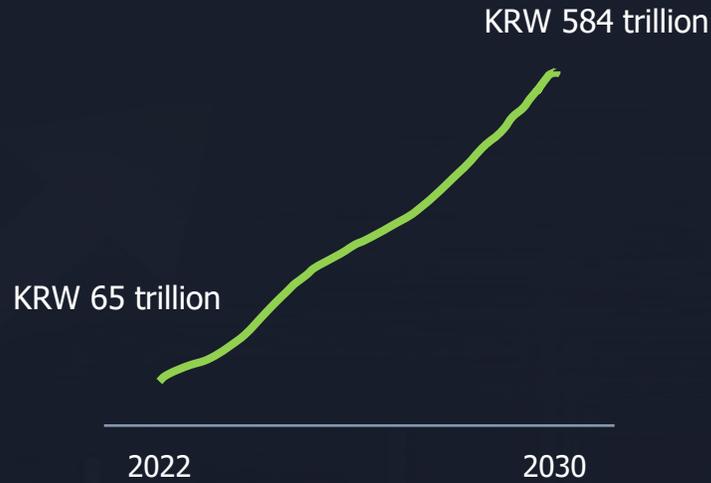
EV Sales

Increase of Approx. **8.5x**



EV Charging Market Size

Growth of Approx. **9x**



EV Charger Quantity

Increase of Approx. **15x**



Source: EV market followed by the charging market... Size of 584 trillion KRW by 2030 [Korean economy]

Market Overview

EV Market Forecast in Korea

EV Charging Market Size

Growth of Approx. **8X**



EV Charger Quantity

Increase of Approx. **11X**



Gas stations disappearing... Large companies bet on EV charging

[Economist MARKETin Lee Seung-hun Reporter] Gas stations are disappearing as the transition to the era of electric vehicles(EV) is arising. As a result, major large companies who choose the EV charging infrastructure business as their new income seem to be in a hurry. LG, Hyundai, SK, Lotte, and SSG are rushing to take the lead in the EV market by utilizing their group affiliates' capabilities or conducting M&As with companies that can collaborate or create a synergy effect.

2023.05. 24[Economist]

No electric vehicle without charging infrastructure!

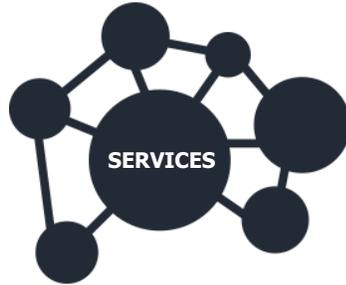
The era of smartphones finally took place thanks to the support of the communication infrastructure. The EV charging infrastructure market will grow in proportion to the growth of the EV market. The infrastructure of EV chargers resembles communication infrastructure. First, it starts with hardware-based charger manufacturing, where it expands to software-based platforms and charging infrastructure operation services. There will come a day when significant companies governing the EV charger, platform, and charging infrastructure service sectors emerge, just like Apple, Google, and Verizon in communications, respectively. 2023.05. 03[E-Today]

Source: EV market followed by the charging market... Size of KRW 584 trillion by 2030 [Korean economy]

EV Charger Manufacturing Status



**Low-Quality, High-Cost Lineup
(Subsidy-Driven Development)**



**45,000 Units of Outmoded Chargers
Unavailable for Service Expansion**

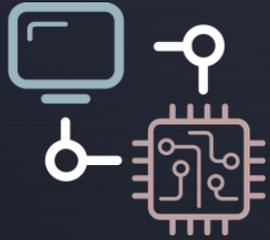


**Acute Increase and Accumulation
of Basic Rates and Maintenance
Expenses**



**Lack of Response Strategy
and Product in the Case
of Subsidy Reduction and Repeal**

Background on entering the EV charger market



Proven Technology

Possession of key modules based on self-developed technology proven for 2 years

EV Charger Display Module



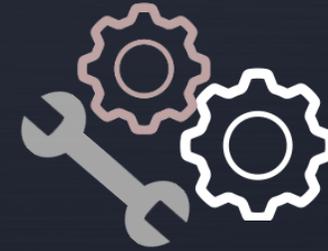
Next-Gen. Products Ready

Mobile, e-mobility connection, apartment control, all-in-one payment module, Real-time remote control



Outstanding Product Competitiveness

Future-oriented innovative design with the stability of industrial core components and cost competitiveness of 50% and up, proven for 2 years



Secured Market Share

Slow charger with CASTPRO's product applied securing **10% of the market share, with a failure rate of 0.1%**

Product Introduction

hello charger CSMS

OCPP 1.6 Fully Certified

Status of Chargers

공속충전기	일속충전기	정속충전기
119대	1194대	1313대

Amount of Charge compared to the previous day

일시	충전량(Wh)	Δ	충전시간	Δ	충전비	Δ	충전비율	Δ
23-03-05	528,852	▼-1,877.26	35,333.28	▼-52.8211	29	▼-29	106.025	▼-285.927
23-03-04	530,729	▼-1,683.52	35,333.28	▼-52.8211	29	▼-29	106.025	▼-285.927
23-03-03	532,612	▲-2,012.78	35,333.28	▼-52.8211	29	▼-29	106.025	▼-285.927
23-03-02	534,625	▲-2,342.04	35,333.28	▼-52.8211	29	▼-29	106.025	▼-285.927

Daily charging status

Monthly sales status

1인원 이하 45,284,100원

Error notification

일시	URL	ID	오류내용
23-03-05 07:13:02	Charger	CS20K763	충전비율 0%
23-03-05 07:13:02	Charger	CS20K765	카드 충전실패
23-03-05 07:13:02	Charger	CS20K767	누전차단기 OFF
23-03-05 07:13:02	Charger	CS20K770	RF ID 인식실패



Can save time and expenses required for system construction



System available within 2 business days from the service request



Provides key functions necessary for business operations such as real-time monitoring/remote control/online updates of the chargers



Configured as a cloud server for maximum security and easy access



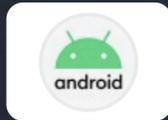
Provides location and status information of the charger in conjunction with the Ministry of Environment's Electric Vehicle Charging Information Integrated Platform

Product Introduction

hello charger Slow Charger



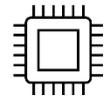
Powered by Android OS
The optimal solution for scaling services



Provides remote control
Reboot, start/stop, check/fix errors

Clear LCD screen with a brightness of 600cd/m²
Waterproof Touch technology applied

7" Touch LCD



On-board power meter (non-contact/CT sensor)
Electronic leakage circuit breaker (auto shutoff/recovery)

Equipped with IC reader
Various payment support, including credit card, Samsung Pay, etc.



PCB waterproof coating
(electric breakdown/short circuit prevention)
High-capacity components installed (securing safety margin)

Equipped with RFID reader
Supports Ministry of Environment and member card authentication



The only K-Innovative Product among slow chargers
Item Identification Number: 24551680

7/11/15 full lineup
Possession of 2CH charger
(supports simultaneous charging)

2CH



Korea Standard Communication Protocol
OCPP1.6 certified

Product Introduction



	7kW 1CH	14kW 2CH
Input	Single-phase 220V AC 60Hz 7kW(32A)	Single-phase 220V AC 60Hz 14kW(64A)
Output	Single-phase 220V AC 60Hz 7kW x 1CH	Single-phase 220V AC 60Hz 7kW x 2CH
Certification	Type approval / KC / OCPP1.6	
Size	W300 x H547 x D216 (mm)	
Protection Class	IP44	
Cable Length	5 / 7 / 10M	

	11kW 1CH	22kW 2CH
Input	Single-phase 220V AC 60Hz 11kW(50A)	Single-phase 220V AC 60Hz 22kW(100A)
Output	Single-phase 220V AC 60Hz 11kW x 1CH	Single-phase 220V AC 60Hz 11kW x 2CH
Certification	Type approval / KC / OCPP1.6	
Size	W300 x H547 x D216 (mm)	
Protection Class	IP44	
Cable Length	5 / 7 / 10M	



hello charger Innovative Products

Concept of Innovative Products

Products designated by the Public Procurement Policy Deliberation Commission in recognition of publicity, innovation, etc., for the improvement of public services and technological innovation

- ✓ Each corporation can purchase designated innovative products on the "innovative market (public procurement platform)"
- ✓ A negotiated contract is available for 3 years after being designated as the innovative product (Article 26 of the Enforcement Decree of the Act on Contracts to Which the State is a Party, article 25 of the Enforcement Decree of the Act on Contracts to Which a Local Government is a Party)
* Participation in the Public Procurement Services' trial purchasing projects available
- ✓ Each purchaser of the corporation is protected by the purchase exemption (Article 27 of the Government Procurement Act) * Consists of Excellent R&D Products (Fast Track I), Innovative prototypes (Fast Track II), and Innovation/publicity-recognized products(Fast Track III)

Fast Track I



Excellent R&D Products

Products (successfully commercialized as a result of R&D by the central administrative agency) that are recognized for the innovative performance of the technology under the standards and procedures set by the head of each central administrative agency in consultation with the Ministry of Economy and Finance

Fast Track II



Innovative prototypes

Prototypes (products before commercialization requiring initial market and commercialization support) that are recognized for the innovative performance of the technology under the standards and procedures set by the Commissioner of the Public Procurement Services in consultation with the Ministry of Economy and Finance

Fast Track III



Innovation/publicity-recognized products

Innovation/publicity-recognized products. Products that the central government office recommends to the Ministry of Economy and Finance/Commissioner of the Public Procurement Services in recognition of the innovative performance of the technology or products recognized for publicity and innovative performance of the technology among the innovative policy-linked products

Related Laws Regarding Purchasing of Innovative Products

Public Institution Budgets – Negotiated Contract

- ✓ Article 27 of the Government Procurement Act and Article 33 of the Enforcement Decree of the same
- ✓ Article 26 Paragraph 1 Subparagraph 5 Item (g) of the Enforcement Decree of the Act on Contract to Which the State is a Party
- ✓ Article 25 Paragraph 1 Subparagraph 8 Item (c) and Article 25 Paragraph 1 Subparagraph 8 Item (i) of the Enforcement Decree of the Act on Contracts to Which a Local Government is a Party

Ground legislation on the exemption of the person in charge of the purchase at a public institution

- ✓ Article 27 Paragraph 4 of the Government Procurement Act
Where a person in charge of the purchase at an end-user institution has purchased an innovative product, he or she shall not be liable for any loss incurred from the purchase of such product unless his or her intent or gross negligence is proved.

Related Laws Regarding Purchasing of Innovative Products

Institutional evaluation reflection

✓ **1.6% of the total purchase expense of products by institutions shall be used to purchase innovative products, and the purchase performance be reflected in the institutional evaluation**

* Scope of innovative product purchase recognition: innovative product purchasing expense + other innovative purchasing (competitions, prize money for public projects, purchases of R&D results in the public sector, etc.)

* Government innovation evaluation (central government), local governments joint evaluation(local government), management evaluation of public/quasi-governmental organizations, management evaluation of local public enterprises

✓ **Refer to the evaluation plan for each institution for details, including evaluation items, indicators, measurement criteria, etc.**

hello charger Innovative Products

혁신조달 종합포털 혁신장터

전체 검색어를 입력해주세요

혁신제품 전용물 혁신시제품 지정 혁신제품 시범구매 R&D 수요조사 혁신수요 발굴 경쟁적 대화계약 참여기관 업무

상품상세정보



완속 2채널 전기차 충전기 (7kW*2EA)
4,950,000 원

※ 위 판매회망 가격은 혁신장터 운영규정(조달청 고시 제2020-36호)에 따른 견적가격 (VAT포함)이며, 혁신장터 이용약관(조달청 고시 제2020-37호) 제16조 2항에 따라, 「국가를 당사자로 하는 계약에 관한 법률 시행규칙」 제5조 1항 1호에서 규정하는 조달청장이 조사하여 통보한 가격이 아님을 알려드리오니 유의하시기 바랍니다.

- 기본정보
- 업체명 : 주식회사 캐스트프로
 - 사업자번호 : 2308104019
 - 모델명 : CSC-14000B7
 - 세부품명번호 : 2611170403
 - 제조/공급 : 제조
 - 물품식별번호 : 24551680
 - 단위 : 대
 - 기업규모 : 기술혁신형 | 벤처
 - 중간경쟁제품 : 아래 사이트 참조

☞ 중소기업정보에서 고시한 중소기업자간 경쟁제품은 <https://www.smpp.go.kr> 사이트로 접속하신 후 [정보조회]-[제품정보]-[중소기업자간 경쟁제품]에서 조회하실 수 있습니다.

물품식별번호 : 24551680

인증번호 제 2022 - 257 호

조달청

혁신제품 지정 인증서

01 기업명 주식회사 캐스트프로
사업자등록번호 230-81-04019

02 주소 경기도 성남시 중원구 둔촌대로457번길 27, 13층 1301,1302호 (상대원동, 성남우림라이온스밸리1차)

03 혁신제품명 안드로이드 OS가 탑재된 전기차 충전기(Hello Charger)

04 지정기간 2022년 09월 27일부터 2025년 09월 26일까지

위 제품은 「조달사업에 관한 법률 시행령」 제33조 제1항 및 「혁신제품 지정 및 구매촉진 등에 관한 규정」 제10조 제1항에 의거하여 혁신제품으로 지정되었음을 인증합니다.

2022년 09월 27일

조달청

Supply Performance



Class	Model Name	Quantity	Suppliers	Remarks
Slow	CSC-14000B7	4EA	Muan-gun	
Slow	CSC-14000B7	2EA	Korea SMEs and Startups Agency	Scheduled for installation in June
Slow	CSC-14000B7	1EA	National Research Foundation of Korea	
Slow	CSC-14000B7	2EA	Incheon Transit Corporation	Scheduled for installation in June
Slow	CSC-14000B7	1EA	KEPCO KPS	Scheduled for installation in June
Slow	CSC-14000B7	2EA	Postal Savings & Insurance Development Institute (POSID)	
Slow	CSC-14000B7	1EA	Bucheon Fire Station	
Slow	CSC-14000B7	1EA	Seoul Regional Tax Office	
Slow	CSC-7000A7	1EA	Incheon Foundation for Women and Families	CPO Supply
Slow	CSC-14000B7	1EA	KT Munsan Building	CPO Supply
Slow	CSC-7000A7	2EA	Inchon Sangokbuk Elementary School	
Slow	CSC-7000A7	3EA	HDC Studio	
Slow	CSC-7000A7	7EA	Pyeongchang Ramada Hotel	CPO Supply
Slow	CSC-7000A7	1EA	KT Shinnae Building	CPO Supply
Slow	CSC-7000A7	10EA	Yoido Full Gospel Church	CPO Supply
Slow	CSC-7000A7	7EA	KT Gangneung Building	CPO Supply
Rapid	AESC-050K	2EA	Nonghyup, Songpa	CPO Supply
Fast	AESC-050K	1EA	POSID	
Rapid	AESC-050K	1EA	HDC Studio	
Rapid	AESC-050K	1EA	Hyundai Department Store (D-Cube City)	CPO Supply

Supply Performance

Seoul Regional Tax Office

86, Jongno 5-Gil, Jongno-gu, Seoul,



Bucheon Fire Station

115, Sinheung-ro, Bucheon-si, Gyeonggi-do



POSID (Gwangju Branch)

110, Sangmujungang-ro, Seo-gu, Gwangju



Seungdal Culture and Arts Center

8, Changpo-ro, Muan-eup, Muan-gun, Jeollanam-do



Launch Plans



Slow Charger
23. 06

15kW – 1CH/2CH
11kW – 1CH/2CH
7kW – 1CH/2CH



Rapid Charger
23. 12

200kW – 1CH/2CH
100kW – 1CH/2CH
50kW – 1CH/2CH



Medium Charger
24. 03

30kW – 1CH/2CH
20kW – 1CH/2CH

Thank you