



Master Key to the Unbounded EV Life

PLUG&PAY Business Introduction

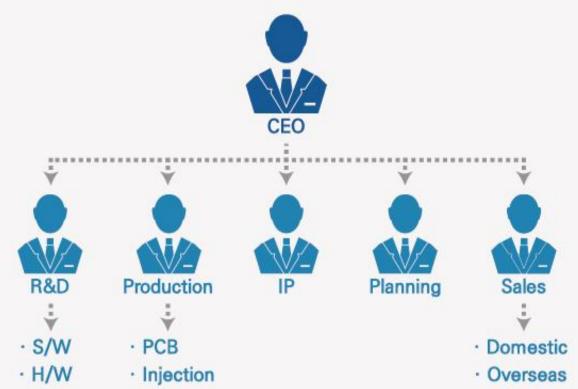






01. Brief Introduction of Company





Company name	Geo-Line Co., Ltd.
Head Office	KAIST R&D Center, Cheomdan-ro 330, Jeju-si, Jeju, Korea, 63309
R&D / Factory	B-1211, Dusan-ro 70, Geumcheon-gu, Seoul, Korea, 08584
CEO	Sunggyoo Geo
Establish Date	May 21st, 2014



01. Brief Introduction of Company



Incorporation 2014 – 2015

2014.05

Foundation Geo-Line Co., Ltd.

2015.08

Idea Start-up Grand-Prix [Creative Award]

- Ministry of Science, ICT & Future Planning

2015.08

First Selected Company to KB STARTERS VALLEY

- KB Financial Group

2015,12

UN COP21 Invitational Exhibition in Paris, France

- WIPO (The only in Automotive Area)



2017.07

Start Tel Aviv 2017 Korea [Award of Excellence]

- Israel Embassy

2017.10

Commendation

Minister of Trade, Industry & Energy

2018,03

Selected for Zer01ne Start-Up Program

- Hyundai Motor Group

2018.05

Selected for K-Energy Start-Up

Korean Electric Power COrporation (KEPCO)

マラウ Launch 2019 - Present

2019.04

Service Launch @ Korea

2019.04

Export to Dominican Rep. Power Corps.

and GLOBAL ROAMING PoC

2019.11

Official Charging Service Operator by the Ministry of Environment

2019,12

Selected for [1000 Efficient solution]

- Solar Impulse Foundation, Swiss

2020

Export to multiple EU Power Corps., GLOBAL ROAMING TEST & LOI



02. Current Market Condition

Outlet + Home Charger

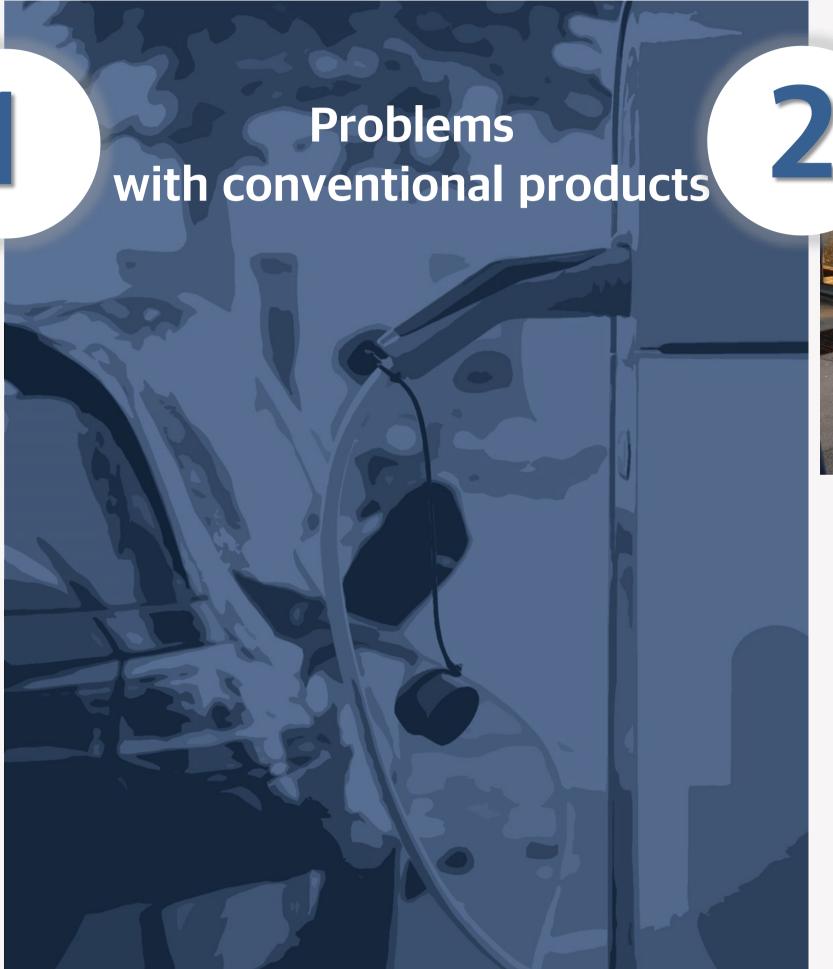


Paid Service : Impossible

Running Cost : Electricity for charging (Subsidized)

Lifetime ROI (Return On Investment)

: 0%



Fixed Charger

Paid Service : Possible

Running Cost

: Mobile telecom (SIM) 24h Standby power Patrol & Maintenance

Lifetime ROI (Return On Investment)

:8%

(Source Elektro Ljubljana, Slovenia)



03. Service Demonstration



You Tube https://youtu.be/YD86n6c9mr8



04. Geo-Line Charging Solution

Profitable Electric Vehicle Charging Exclusive Enabler



You Tube https://youtu.be/8YafStSY4zY

How to use

Connect a mobile charger to a socket

Automatic payment service regardless of location

Elements and Roles

Authentic Socket : Auto Remote Authorizer

w/o Standby Power

Mobile Charger : Smart Charger & Authoring Communicator (SIM)

with Meter

PLUG&PAY Platform : Controller for Authorization, Smart Charging and Billing

Benefit

Share existing power facilities : Minimize installation cost 98% reduction in infrastructure costs : \$4,000 −> \$80 (Approx.)

Change of running cost payment : Business Holder -> Customer

Power company commercialization plan

DR(Demand Response) Ready: Incentive for Individual Level



05. Competitiveness - Technical Barrier

WORLD ONLY Automatic Payment Standby Powerless Security System



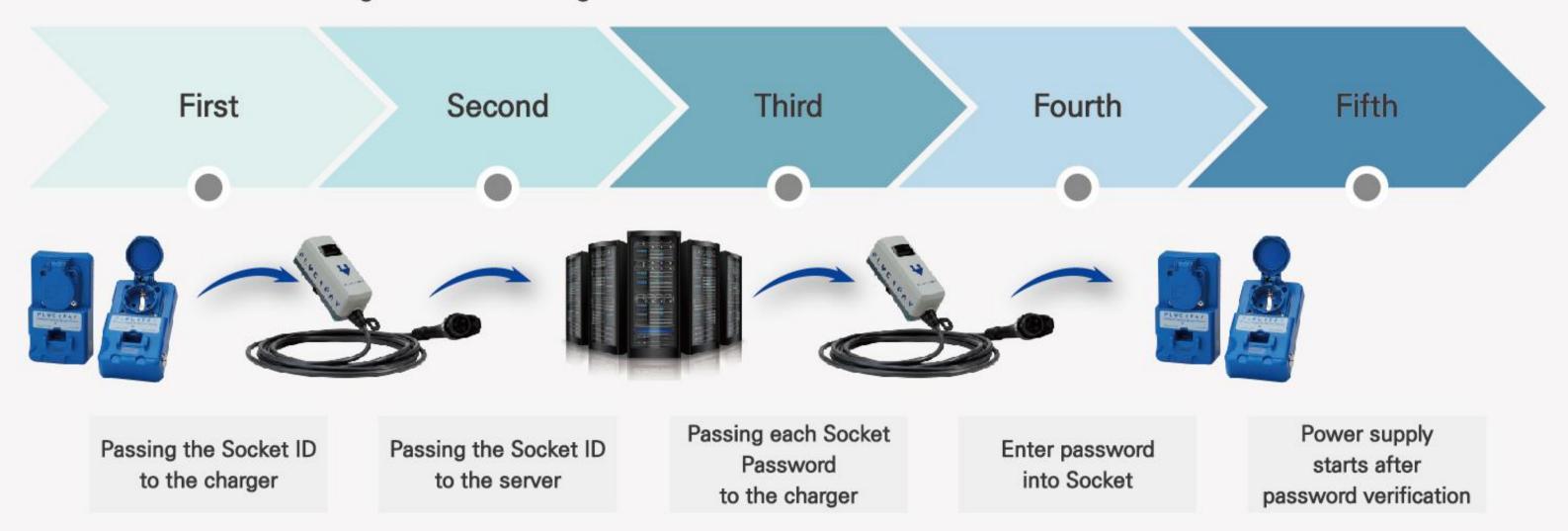
Geo-Line
Technical features

Powerless security

Automatic payment

Automatic recharge after power outage

- · Mobile charger wake up Authentic Socket CPU.
- · Mobile charger is the messenger between P&P Server and Authentic Socket for Authorization.





06. Products Detail





Mobile Charger Spec.

	Section 1997				
Model	PMC-K215	PMC-D332	PMC-3P32		
Input/Output	100~240V 16A 50/60Hz	100~240V 32A 50/60Hz	3P400V 32A 50/60Hz		
Max Power	3.7 kW	7.7 kW	22 kW		
Accuracy	within ±1.0%				
Communication	GSM, 3G, LTE, NBIoT, LoRA, SigFox				
Connector	Type1(SAE J1772, 5Pin) Type2(IEC 62196-2, 7Pin)		Type2(IEC 62196-2, 7Pin)		
Cable Length	7m				
Security	SPSS (Standby Powerless Security System) Ready for Anti-theft Electricity PADLOCK Ready for Anti-theft Charger				
IP Class	IP55	IP66			
WxHxD	80x190x80(mm)	80x230x80(mm)	80x260x100(mm)		
Weight	2.2 kg	4.3 kg	4.5 kg		

Authentic Socket Spec.

Model	SSO-216	SSO-332	SSO-3P32	
Max Power	250V 16A	250V 32A	3P400V 32A	
WxHxD	80x140x35(mm)	90x190x60(mm)	82x235x45(mm)	
Security	SPSS (Standby Powerless Security System) Ready for Anti-theft Electricity PADLOCK Ready for Anti-theft Charger			
IP Class	IP54	IP44		



07. Performance Record

Domestic













Overseas















08. Strong Global Footprint



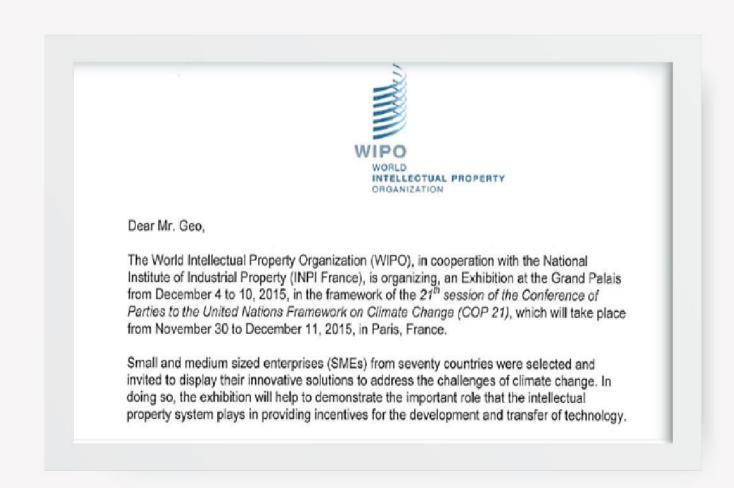
Robust Water Proof In Tropic



09. Accreditation



► SOLUTIONS COP21





► SOLARIMPULSE





10. Patents & Certificates

Patents





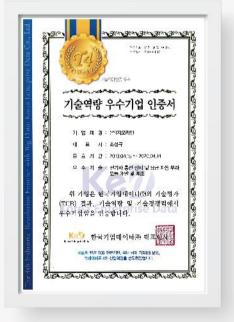


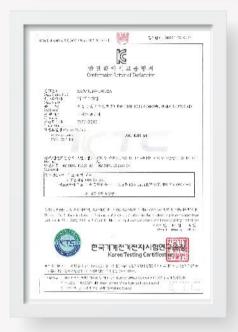






Certificates









Awards













FOR THE SUSTAINABLE EARTH (GEO), SHARE THE ELECTRICITY ON (-LINE).

geo-line.com





