

Technical Submittal

EV Chargers

Project: Rodney Street
Project No: MC1181
TSM No: RODSTA-AME-ZZ-ZZ-TS-E-50019
Revision: C01

Revision Notes:

- 1) Issued for approval
- 2) Construction Issue

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CARBONCONSULTANTS



ameon
Building Services Engineering

Technical Submittal – EV Charger

Project: Rodney Street

Project No: MC1181

TSM No: RODSTA-AME-ZZ-ZZ-TS-E-50019

BIM360 Reference: RODSTA-AME-ZZ-ZZ-TS-E-50019

Revision: C01

Date: 23-04-24

Manufacture: Project EV

Notes: Client/end user to set up and pay for Project EV Pro App for EVA-07D-SE-RFID chargers and block B car parking bays, this is to enable billing. See below for more information.

Technical Data

See below.

Design Criteria

Townhouses – APEX-7.3 (untethered)
Colour – Black

Car park bays near entrance gate – EVA-07D-SE-RFID
Colour – Black

Block B car parking bays - APEX-7.3 (untethered)
Colour – Black

APEX-7.3

Fast AC Single Outlet 7.3kW Tethered & Untethered Chargers



Pro Earth Pen Fault Protection

Featuring built-in pen fault protection as standard, our pro earth APEX EV charger eliminates the need for an earth spike upon installation, or carry out any costly ground-works.



WIFI & Bluetooth Compatible

The APEX features multiple connection options including WIFI, Bluetooth and 4G connectivity. Providing seamless & wireless communication access for your EV charger.



Intelligent Solar

Being fully solar compatible, utilise the power of the sun with APEX. Take advantage of green, solar energy by using the sun to power & charge your vehicle.



Intelligent Dynamic Load Balancing

With dynamic load balancing the APEX EV charger is able to intelligently adjust how much power it draws, allowing it to never draw too much power, but always operate at a happy optimum.



5 Year On-Site Warranty Cover

With a market-leading 5-year on-site warranty, APEX gives you the peace of mind, protection, and guarantee of high-quality after-care services for your EV charger.

Introducing a World of Colour



Racing Green

Ghost White

Nitrous Blue

Black Obsidian

EV Steel

Cherry Red

*APEX-7.3 chargers are 'EV Steel' colour as standard. Colour variations of the APEX-7.3 charger are available Q1 2024, and are subject to availability.

The APEX Smart App Control Everything



- > Start, stop, & monitor your charging activity with one app.
- > Prioritise off-peak charging.
- > Manage and add multiple charge points to one master account.

Download the APEX App by Project EV, for smart app EV control. Available on both the Google Play and App Store.

APEX-7.3

7.3kW Tethered & Untethered - Technical Specifications



Input

	APEX-7S-T / APEX-7S-T-4G Tethered	APEX-7S / APEX-7S-4G Untethered
Wiring Scheme	1P+N+PE	1P+N+PE
Voltage	230Vac, ±20%	230Vac, ±20%
Maximum Current	32A	32A
Frequency	50/60Hz	50/60Hz

Output

Voltage	230Vac, ±20%	230Vac, ±20%
Maximum Current	32A	32A
Rated Power	7.3kW	7.3kW

User Interface & Control

Connector Type	Type 2 Cable	Type 2 Socket
Cable Length	5m	N/A
RFID Reader	Mifare ISO/IEC 14443 A	Mifare ISO/IEC 14443 A
Start Mode	Plug & Play/ RFID Card/ App	Plug & Play / RFID Card / App

Communication

WiFi	Yes*	Yes*
Bluetooth	Yes	Yes
LAN	Adapter Q1 2024	Adapter Q1 2024
4G	4G on APEX-7S-T-4G Only	4G on APEX-7S-4G ONLY
OCPP	OCPP 1.6 JSON, OCPP 2.0 Optional (Coming Soon)	OCPP 1.6 JSON, OCPP 2.0 Optional (Coming Soon)

*Range capability up to 30m. Dependent on environment and charger location/surroundings.

Environment

Installation	Wall-Mount / Post-Mount	Wall-mount / Post-mount
Operating Temperature	-30°C ~ 50°C	-30°C ~ 50°C
Operating Humidity	5% ~ 95% No Condensation	5% ~ 95% No condensation
Operating Altitude	≤2000m	≤2000m
Mid Metering / CT	EN50470-1 & EN50470-3 Class B MID approved Meter (pre configured) (CT Clamp and Meter Included)	

Safety

IP Protection Rating	IP65	
IK Protection Rating	IK08	
Residual Current Detection	Integral Type A RCBO / AC 30mA / DC 6mA	
Over Current Protection	✓	
Residual Current Protection	✓	
Pro Earth Pen Fault Protection	✓	
Surge Protection	✓	
Over Voltage protection	✓	
Under Voltage Protection	✓	
Over Temperature Protection	✓	
Under Temperature Protection	✓	
Certification	CE, UKCA	
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	

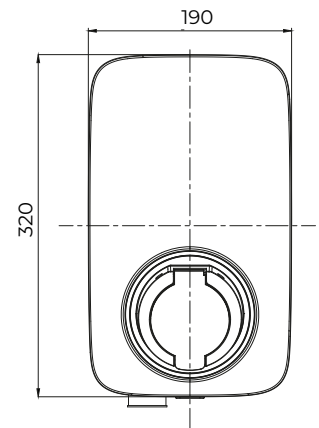
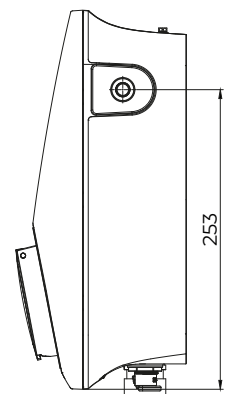
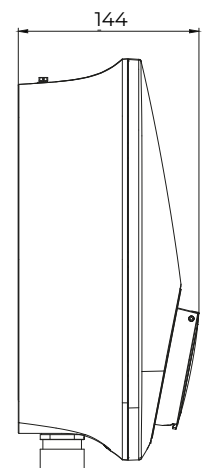
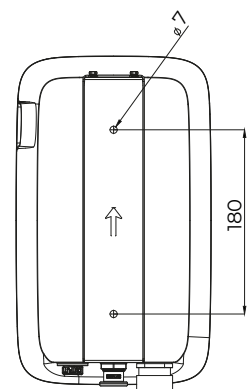
Dimension And Weight

Product Dimension	320*190*144 mm	320*190*144 mm
Product Weight	5.6kg	2.4kg
Product Colour Options*		

*APEX-7.3 chargers are 'EV Steel' colour as standard. Further colour options are available upon request, subject to availability.

Mounting & Accessories

Floor Pole	Opt. APEX-SPOST	Opt. APEX-SPOST
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EVA-07D-SE-RFID / EVA-07D-SE-RFID-C



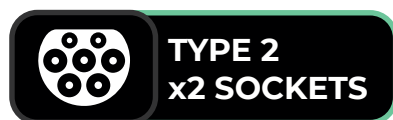
7.3kW Pro Earth Floor AC Charger Dual Gun RFID
[63a Single Phase]

The Future of EV Charging

The EVA-07D-SE-RFID & EVA-07D-SE-RFID-C is a single-phase dual AC charging unit, packed with features, such as a no earth spike required installation. The dual gun charger is perfect for both domestic and commercial use with a market-leading five-year warranty.

This charger also has time shifting capabilities giving you the opportunity to save £100's per year*, a cable lock system for added security, free mobile monitoring app, and a dynamic load balancing system.

The EVA-07D-SE-RFID & EVA-07D-SE-RFID-C is ready out of the box and perfect for any domestic electric vehicle charging. The RFID unit comes with one RFID card as standard, with additional RFID cards (EV-RFID) available for purchase. Optional ground mounts (EV-GMEVA-D-2) & optional protection posts (EV-POST2) are available to purchase.



METHODS OF CONTROL

Plug & Charge - Project EV's ethos is to make charging electric vehicles easy and stress free for all. With the Plug and Play mode you do not require any additional software or applications to control your EV charge point, you simply plug your car into a Project EV device, and the charge begins.

RFID - RFID Mode Charging is an easy simple way for users to control their EV Charge Point with a swipe of a card. One RFID card is supplied as standard, however extra cards can be supplied for those interested in public charging.

Project EV App - The FREE Project EV App allows you to choose and customise charging rates, prioritise off-peak charging to maximise savings (including via a solar charging mode) and create charging records; so you can see and control all your data.

Project EV Pro App - The Project EV Pro App is a unique EV charging platform, providing you the ability to utilise public charging capabilities and manage and control multiple chargers - from which you can generate a fluid revenue stream.



Note - EVA-07D-SE-RFID/EVA-07D-SE-RFID-C Datasheet - Information correct as of 01/23

*The amount of potential savings you can save per year depends on your energy provider, and your set energy tariff rates.

Input & Output

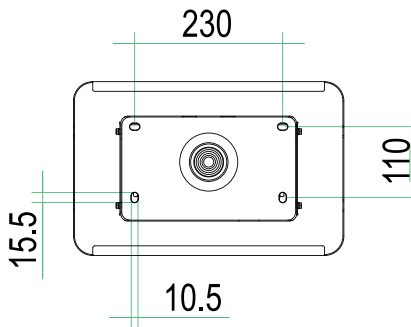
Input Amps	63a Single Phase
Input voltage	230V AC
Input frequency	50HZ
Output voltage	230V AC
Max. output power	7KW per socket
Max. output current	32A per socket
Charging interface type	IEC 62196-2, Type 2

Protection

Over voltage protection	✓
Under voltage protection	✓
Over load protection	✓
Short circuit protection	✓
Earth leakage protection	✓
Over-temp protection	✓
Surge protection	✓
PEN fault protection	✓
Anti Tamper Switch	EVA-07D-SE-RFID-C Model Only

Function & Accessory

LCD	Yes
Ethernet/WIFI/4G	Yes/Yes/Opt.
Outlet Type	Type 2 (socket)
Number of outlets	2
RCBO	Type A +6mA DC fault current protection (Equivalent to Type B)
LED Indicator light	✓
Mid Metering	✓
Emergency stop button	✓
RFID	✓
Dynamic Load Management	Modbus Meter Only (EV-SPM)



Working Environment

Protection degree	IP65
Environment temperature	-25°C~+50°C
Relative humidity	0-95% non-condensing
Cooling	Natural air cooling
Standby power consumption	<8W
IK Rating	IK10

Mechanical

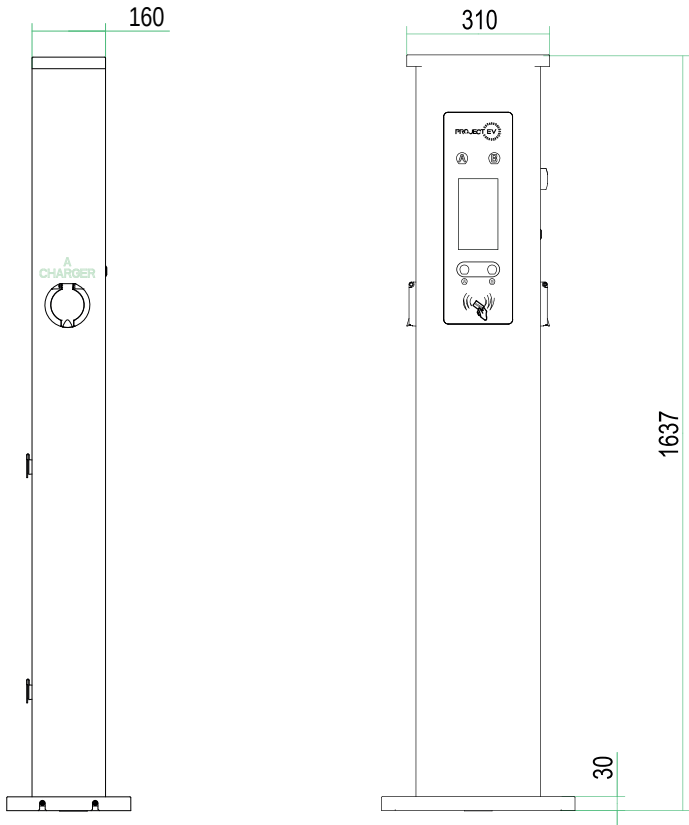
Dimension (W/H/D)	320/1635/175mm
Weight	30KG

Mounting & Accessories

Ground-mounting	Opt. EV-GMEVA-D-2
Recommended base size (W/H/D)	600/600/400mm
Dynamic Load Management	Opt. EV-SPM

Certification

CE	✓
SA8000 Accredited	✓
OZEV Approved	✓
UKCA	✓





PRO APP SETUP GUIDE



Perfect for both domestic and commercial environments, extending from fast AC 7.3kW chargers to ultra-rapid DC 360kW charge points.



www.projectev.co.uk

*Correct as of 05/2023

PRO APP SETUP

STEP-BY-STEP PROCESS

PROJECT EV

STEP 01

Contact Project EV to enquire about Pro App.



proapp@projectev.co.uk



0333 733 0333

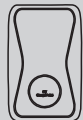
STEP 02

Project EV will provide information pack and relevant documentation.



STEP 03

Notify us with the number of sockets & chargers you are looking to add.



STEP 04

Project EV Pro App team will generate the registration form A.



STEP 05

Once registration form A is completed by client, Project EV will setup dashboard ready to add the charging points to the account.



PRO APP SETUP

STEP-BY-STEP PROCESS

PROJECT EV 

STEP 06

Project EV will raise a proforma invoice for the subscription fees.



STEP 07

Once Project EV have confirmed payment has been processed, a commissioning pack will be dispatched.



STEP 08

Registration form B is sent by Project EV to client.



STEP 09

Fit the QR codes and metal instruction signage to either side of the EV chargepoint.

STEP 10

Please ensure you fill in the registration form B to reflect the positioning on the QR codes, before ensuring the chargers are connected to the internet.



PRO APP SETUP

STEP-BY-STEP PROCESS

PROJECT EV

STEP 11

Project EV will add the chargers to your back-office dashboard and send you the login details for your bespoke dashboard.



STEP 12

Watch the Pro App video tutorials to gain a further understanding on how to use your bespoke back-office system.



WATCH OUR PRO APP SETUP TUTORIALS



**SCAN
ME!**





PROJECT EV

Project EV's **PRO CRM** ON THE GO



Project EV Pro App

PORTABLE PRO CRM

The Project EV Pro App is a unique EV charging platform, providing you the ability to utilise public charging capabilities and manage and control multiple chargers - from which you can generate a fluid revenue stream.

The Project EV Pro App dashboard is intuitive and user-friendly, allowing you to monitor your charger activity, and review data and analytics to discover new revenue opportunities.

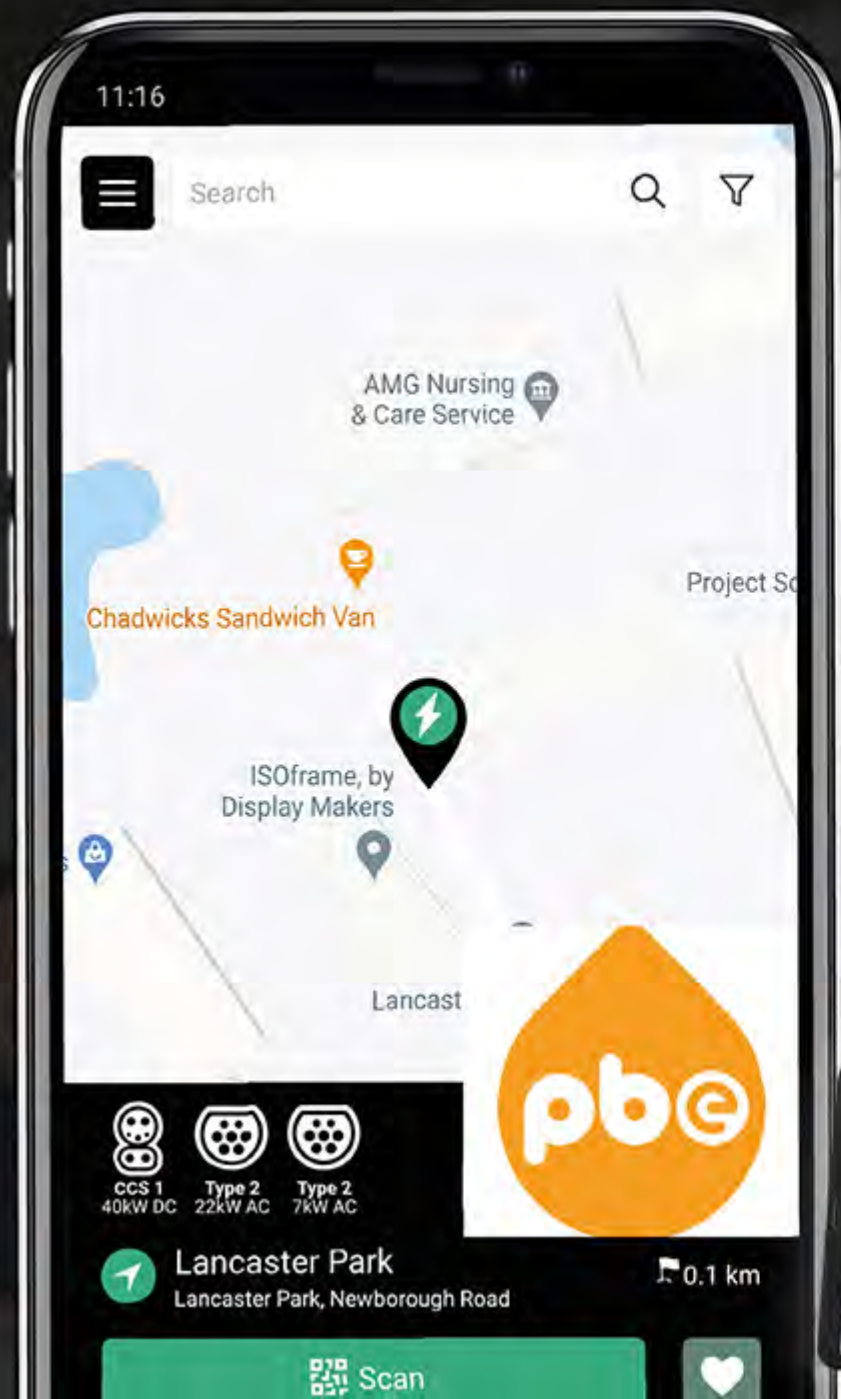
With our RFID function you can assign your staff a designated charging tag, creating a simple workplace charging scheme with the swipe of a card - allowing for more efficient monitoring of expenses costs.



The **Right Solution** For Your Business If...

- You are looking to assign your staff a designated charging tag, creating a simple workplace charging scheme with the swipe of a card - allowing for more efficient monitoring of expense costs
- You plan to launch a charging network as a Charge Point Operator or extend your existing e-mobility services with a charging infrastructure;
- You operate a fleet of electric vehicles and need a way to manage access and the usage of your EV charging stations;
- Your business offers EV charging to customers/visitors at your premises;
- You have multiple charging stations and you require the provision of an integrated hardware and software solution;
- You manage free EV charging stations and you would like to be able to control access and collect payments, manage expenses for remote chargers.

- Public Charging
- Fleet Management
- Energy Management



PROJECT EV Pro App

The End User Experience

To download the Project EV Pro App you can either scan the QR code on the Project EV Pro App signage or you can search for the app on the Google Play or App Store.

Once downloaded in the Project EV Pro App you can scan the QR code or enter the numeric ID for the EV charge point you want to use.

When your app is connected with the charge point you will be able to manage your charging session in the Project EV Pro App.



Pay As You Go Charging for All EV Drivers

1 ONE

Download the Project EV Pro App from the Apple Store or Google Play store.



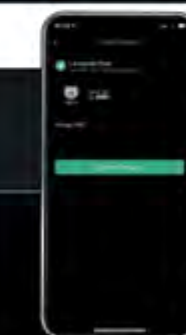
2 TWO

In the Project EV Pro App scan the QR code or enter the numeric ID for the EV charge point you want to use.



3 THREE

Manage your charging session in the Project EV Pro App.



Please ensure that in step 2 you scan the unique QR code or input the EVSE ID number that's situated on the side of your charger.



Charging



Check emergency stop button

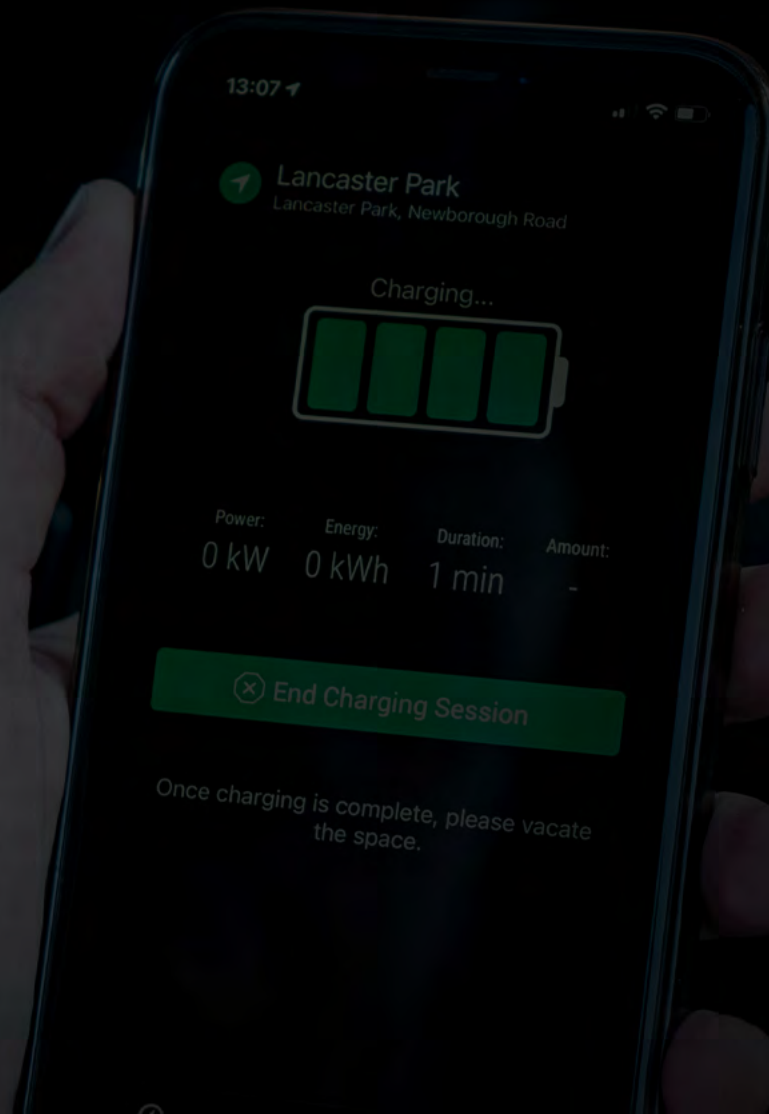


proapp@projectev.co.uk



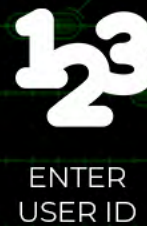
0800 599 9582 - option 3

How to use the **Project EV PRO APP**

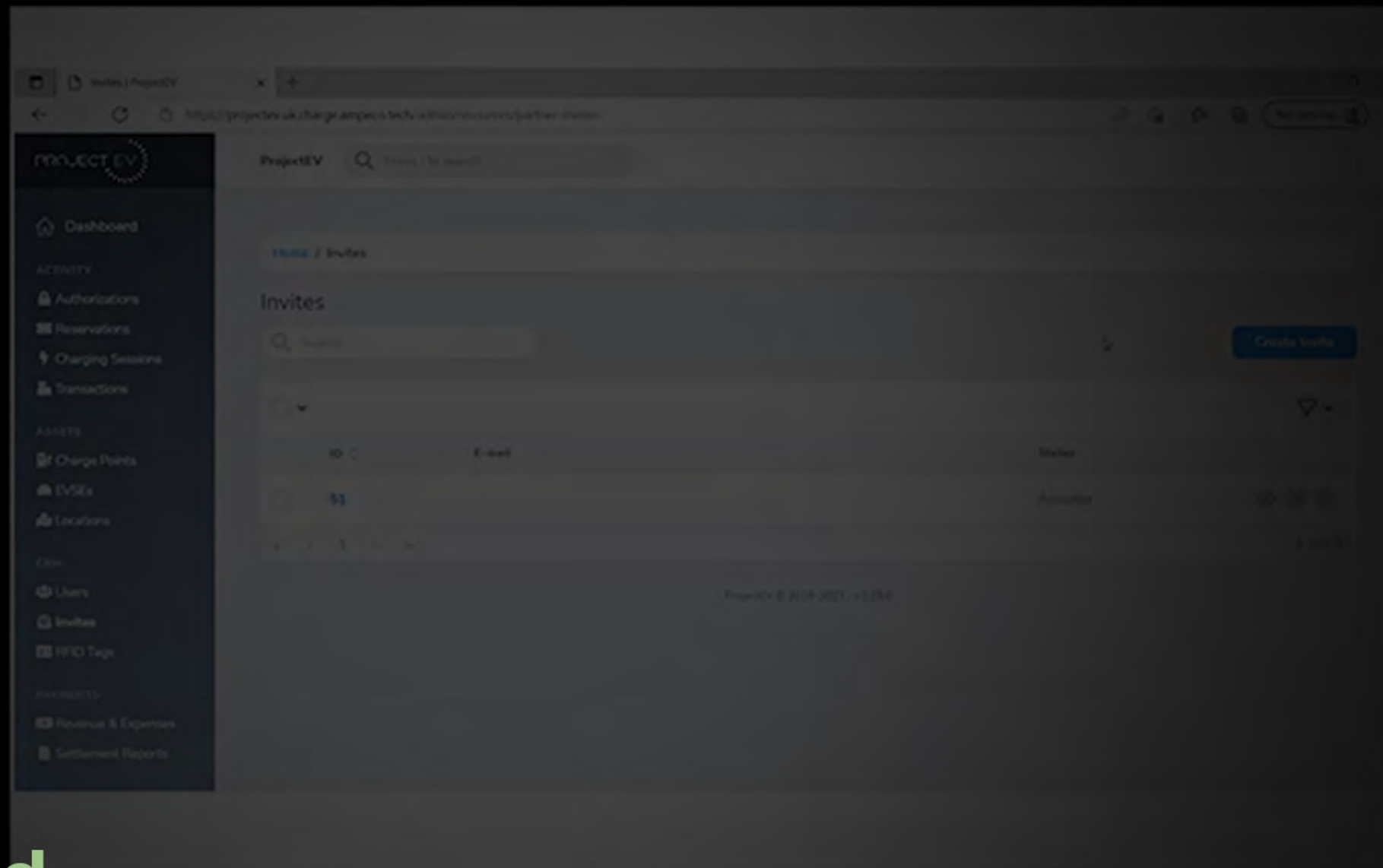


FLOWCHART

HOW TO USE APP



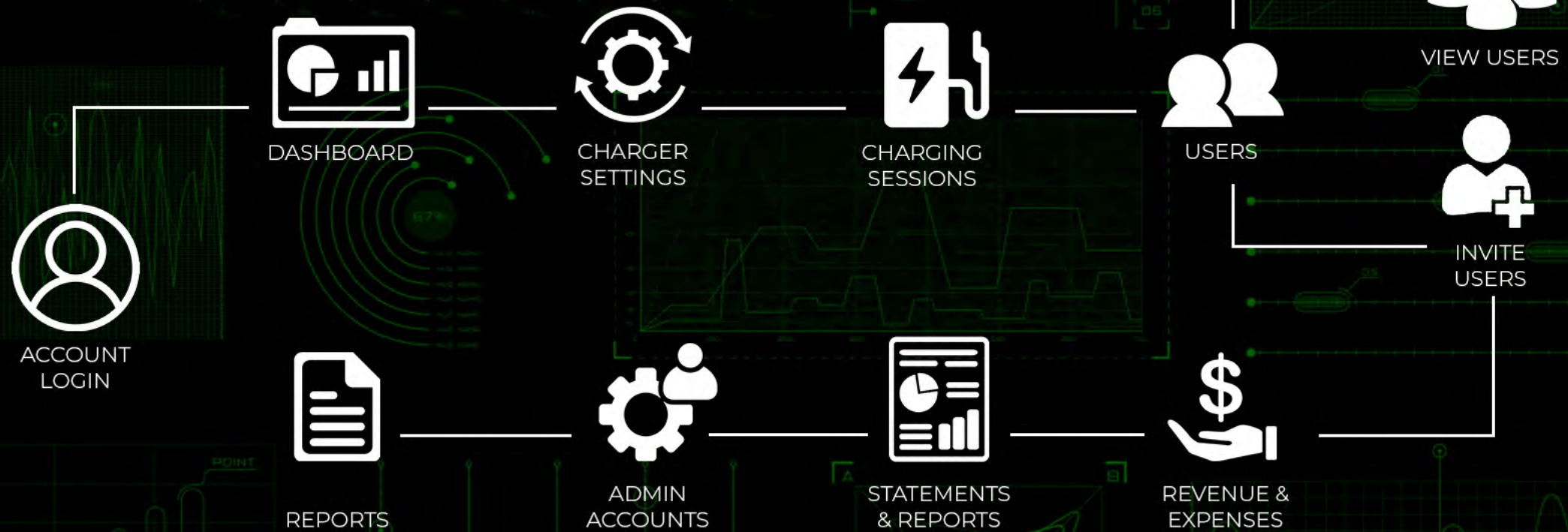
Client Dashboard



Click to watch video - <https://www.youtube.com/watch?v=IHERNy5VsDI&t=33s>

FLOWCHART

BACK OFFICE



PROJECT EV OVERWATCH

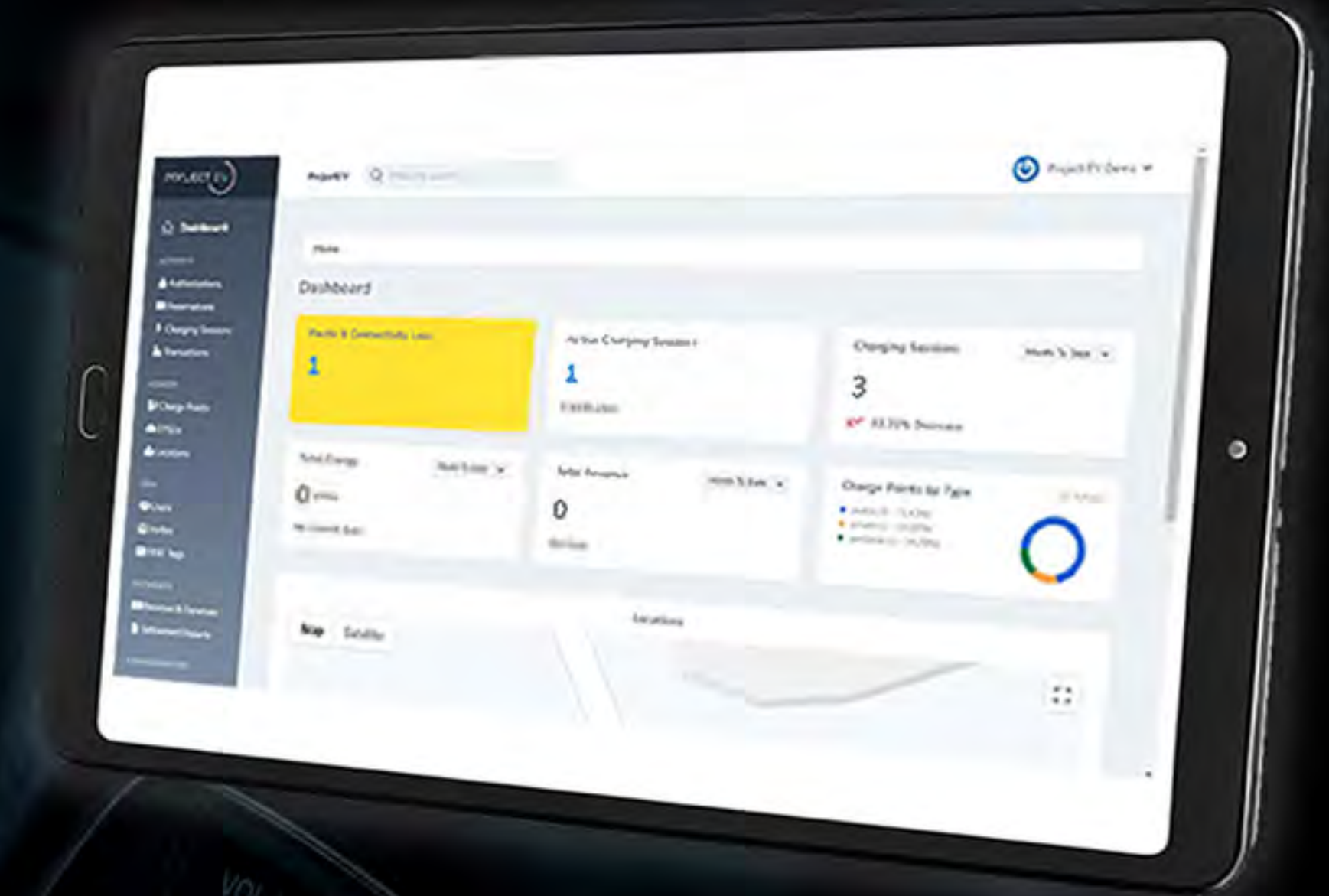
- Project EV Control and organise installation of chargepoints at various sites using installers. Project EV oversee and monitor all the sites chargers using our back office system.
- Installers can monitor all of their customers chargepoints at all of their sites they have installed at.
- Each individual site can monitor their own chargepoints.



Project EV App

Key Features

	Project EV Free App	Project EV PRO App
Plug & Charge	✓	✓
RFID Control (only with RFID Chargers)	✓	✓
App Control	✓	✓
Dynamic Load Balancing*	✓	
Static Load Balancing for multiple chargers		✓
Solar Charging Modes		
Track your charging costs	✓	✓
Records of your charging	✓	✓
Schedule Charging	✓	
Lock your charging lead	✓	
Public Charging (Pay at charger)		✓
Customisable Tariffs		✓
Private & Fleet Management		✓
Use your company RFID to control chargers		✓
Live-View Back Office Dashboard		✓
Historical & Analytical Reports		✓
Visibility of your charge points in all locations		✓
Track Users		✓
Instant Notification when offline		✓
	Free	£49 + VAT Per 1 year contract



Pricing:

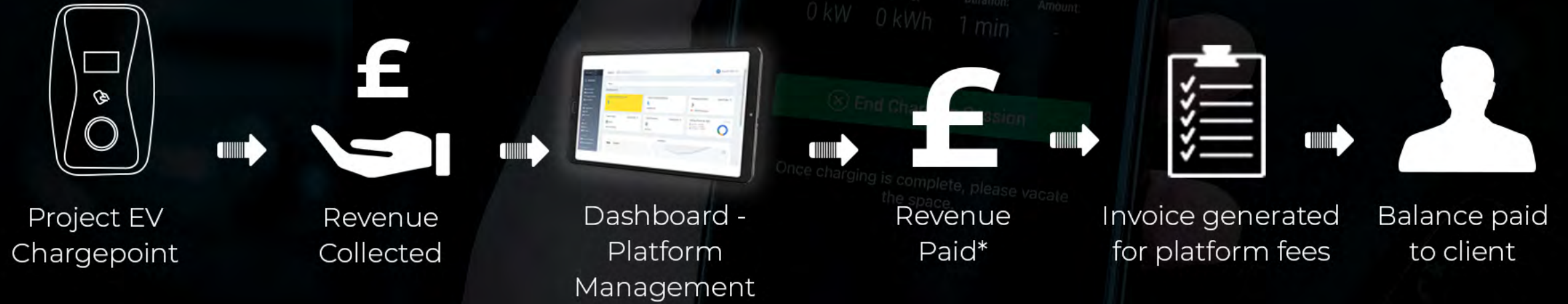
Admin Fee of 10% (For payments made on the platform)

1 Year Fee Per EVSE - £49 + VAT (Per Socket)

Platform Configuration Fee - £9.99 + VAT (Per Unit)

*This is only available for one charger at a time per site

Client Dashboard



*minus Fees

The background image is a composite landscape. On the left, a dark, cylindrical lighthouse sits atop a rocky cliff. A winding road curves through the middle ground, leading towards a large, arched concrete bridge that spans a valley. The sky is filled with soft, orange-tinted clouds, suggesting a sunset or sunrise. In the foreground, a dark car is driving away on the winding road, its motion blurred to convey speed.

PROJECT EV

Thank You