PYLON CITY

Changing The Way **We Power The World**

PYLON CITY

Enables property owners to track, automate and account for
their **energy sustainability goals,**
sell clean energy to their tenants and operate
carbon neutral charging stations.

PYLON
CITY

Summary of Our Platform & Solutions

| PyDEN | PyDEN is a platform that comes with a mobile app for tenants and a dashboard for facility managers. |

Powermon is an end-to-end energy tracking solution used for solar monitoring and tracking energy consumption.

| Powermon |

Chargemon is an electric vehicle charging network management solution that can work with Powermon.

| Chargemon |

Our Products

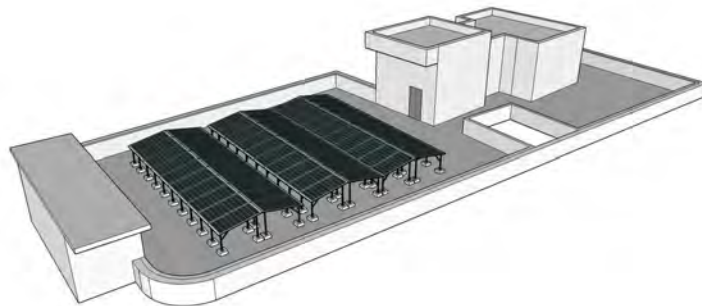**Pylon Chargeports**

Pylon Nexus

Charging EVs with the Sun

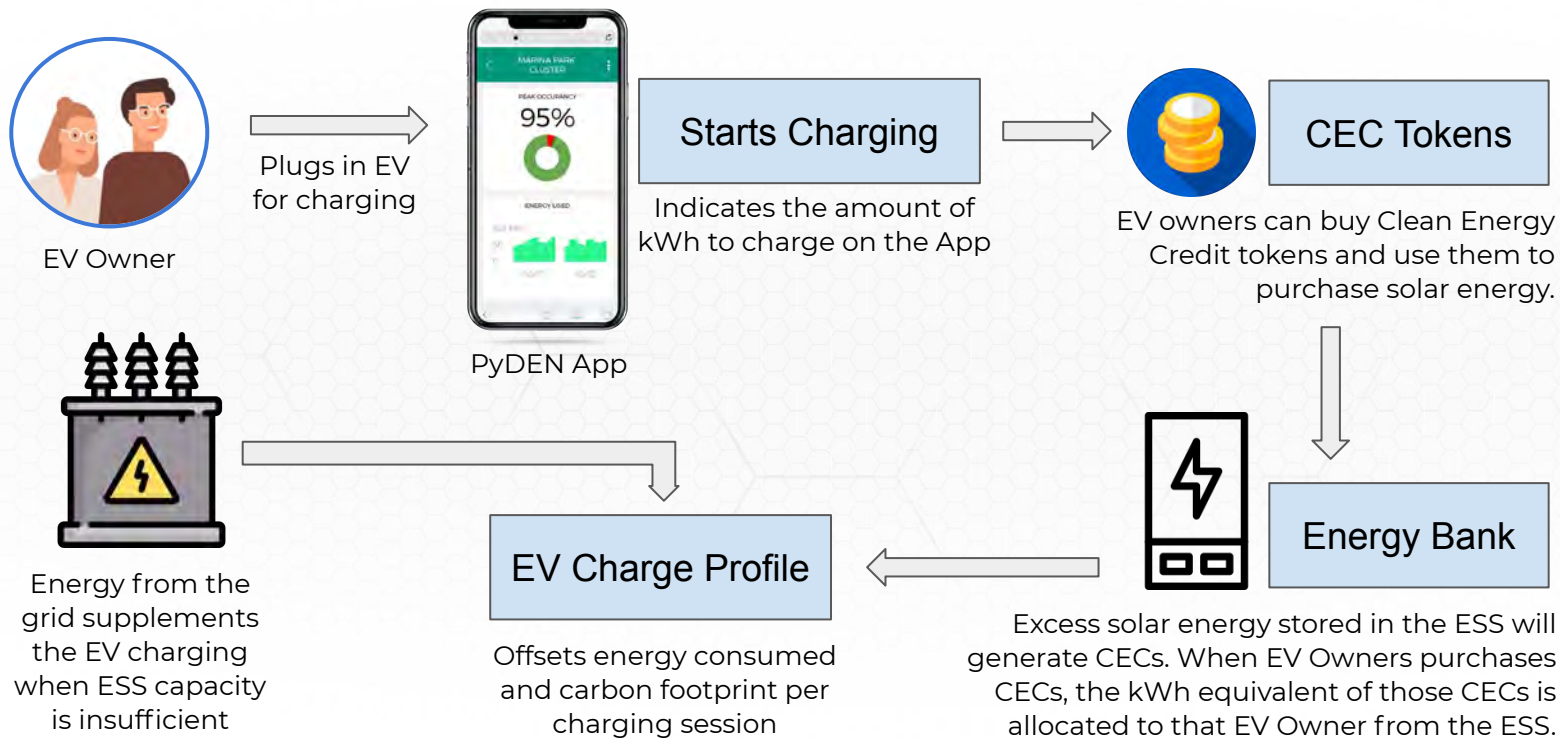Pylon City's Chargeports are designed to be smarter, greener and more versatile.

Some features includes:
- Remotely monitor and manage the charging of your EV via the PyDEN mobile app
- Have the choice to select electricity from a certified green energy source such as a solar electricity producer
- Chargeports are OCPP-1.6 and TR25:2016 compliant chargers
- Users can reserve the usage of a Chargeport in advance (Lot Reservation is optional)
- Reservation and charging functions and payment options can be integrated with existing Shopping Mall reward apps (For retail use case)
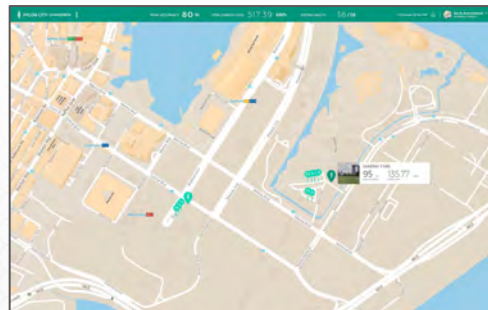
Pylon Chargeport - How it works for EV Owners

EV Owner

Plugs in EV
for charging

PyDEN App

Starts Charging

Indicates the amount of
kWh to charge on the App

CEC Tokens

EV owners can buy Clean Energy
Credit tokens and use them to
purchase solar energy.

Energy Bank

Excess solar energy stored in the ESS will
generate CECs. When EV Owners purchases
CECs, the kWh equivalent of those CECs is
allocated to that EV Owner from the ESS.

EV Charge Profile

Offsets energy consumed
and carbon footprint per
charging session

Energy from the
grid supplements
the EV charging
when ESS capacity
is insufficient

Pylon Chargeport - How it works for Operator & Property Owner

Chargemon Dashboard

Chargemon Dashboard

Chargeports Operator

Monitors →

Locations where Chargeports are deployed

Energy Consumption Over Time, Usage Transactions, and Maintenance data

Property Owner

Monitors →

Solar energy generated and stored at property

CEC Tokens & Transactions

Transactions and CEC token purchases of users are tracked

EV Parking Lot Reservation

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Chargemon

+

ALLOCATE
SPACE
for Parking

1 **Value-adds EV Owner Experience**

Enable EV Owners to reserve an EV Lot for charging in advance and avoid non-EVs from occupying the EV Lot. Prevent overstayers with real-time charge monitoring and notifications on charge completion.

2 **Creates New Revenue Channel from Charging**

EV chargers are the 'petrol stations' of the future. Sell electricity to EV owners as a new revenue channel. Couple this with solar power to provide a green alternative.

PYLON **NEXUS**

Utility monitoring and clean energy supplement

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Track Household Energy & Water Usage with Set Goals on PyDEN

LOWER MODULE
LIGHTING LAYOUT
SCALE: 1 : 50 M

Households can view their daily energy and water consumption on the PyDEN mobile app (see screenshot on the right) using smart home devices such as:

- Smart metered relay (Fig. 1) that remotely controls your lights and measures its energy consumption
- Smart mini-meter (Fig. 2) installed in your electricity distribution box, which measures zonal energy consumption (see layout on the left).
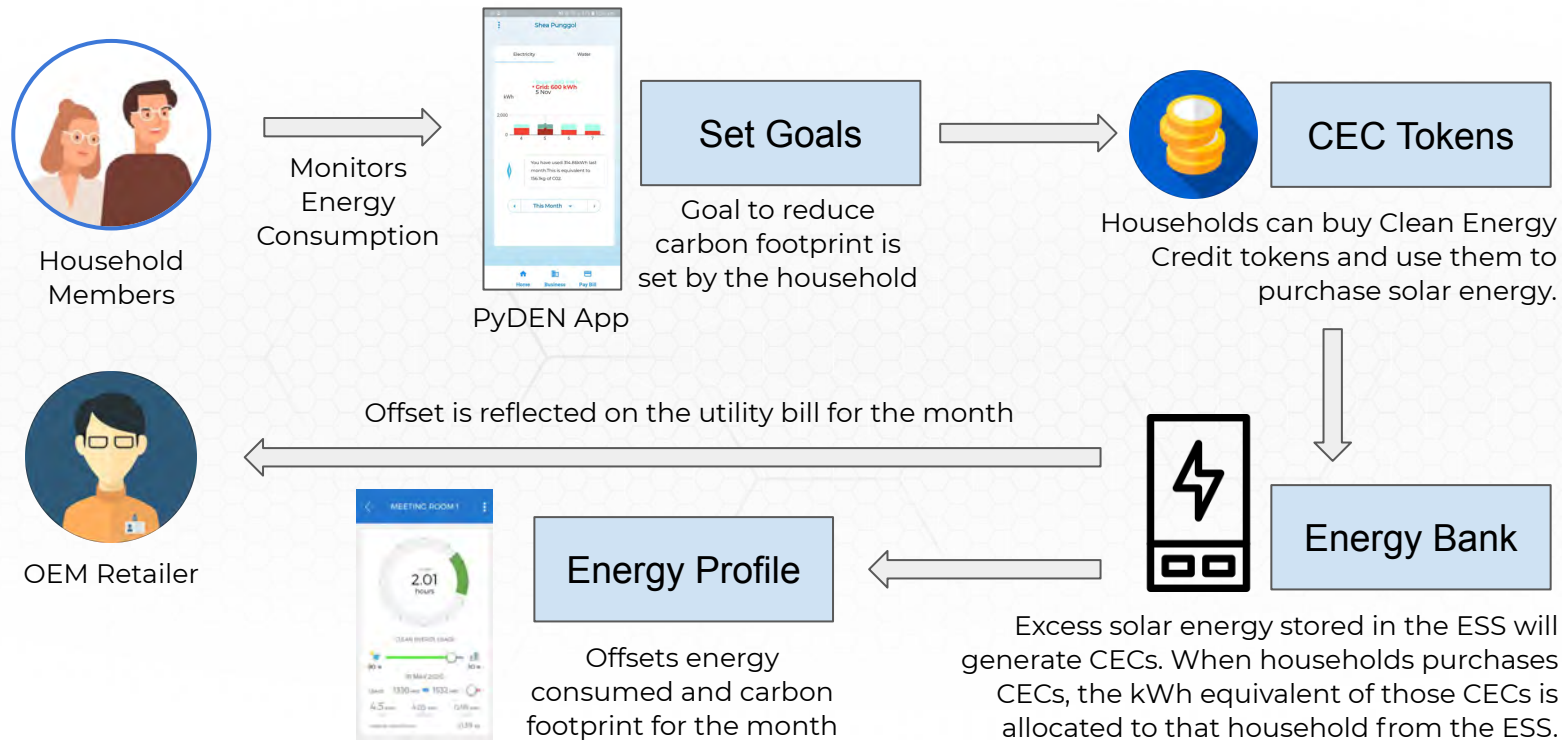- Smart water meter to measure your water consumption.

Fig. 1

Fig. 2

Fig. 3

Pylon Nexus - How it works

Household Members

Monitors Energy Consumption

PyDEN App

Set Goals

Goal to reduce carbon footprint is set by the household

CEC Tokens

Households can buy Clean Energy Credit tokens and use them to purchase solar energy.

OEM Retailer

Offset is reflected on the utility bill for the month

Energy Profile

Offsets energy consumed and carbon footprint for the month

Energy Bank

Excess solar energy stored in the ESS will generate CECs. When households purchases CECs, the kWh equivalent of those CECs is allocated to that household from the ESS.

Solar and Battery Systems

Solar PV System
- Hybrid Inverter
- Li-ion ESS*

Powermon System
- 1 Powermon Logger
- Interfaced with Hybrid Inverter and ESS BMS
- Monitors energy generation and consumption
- 1 Admin account for Dashboard access
- PyDEN app access for all household members

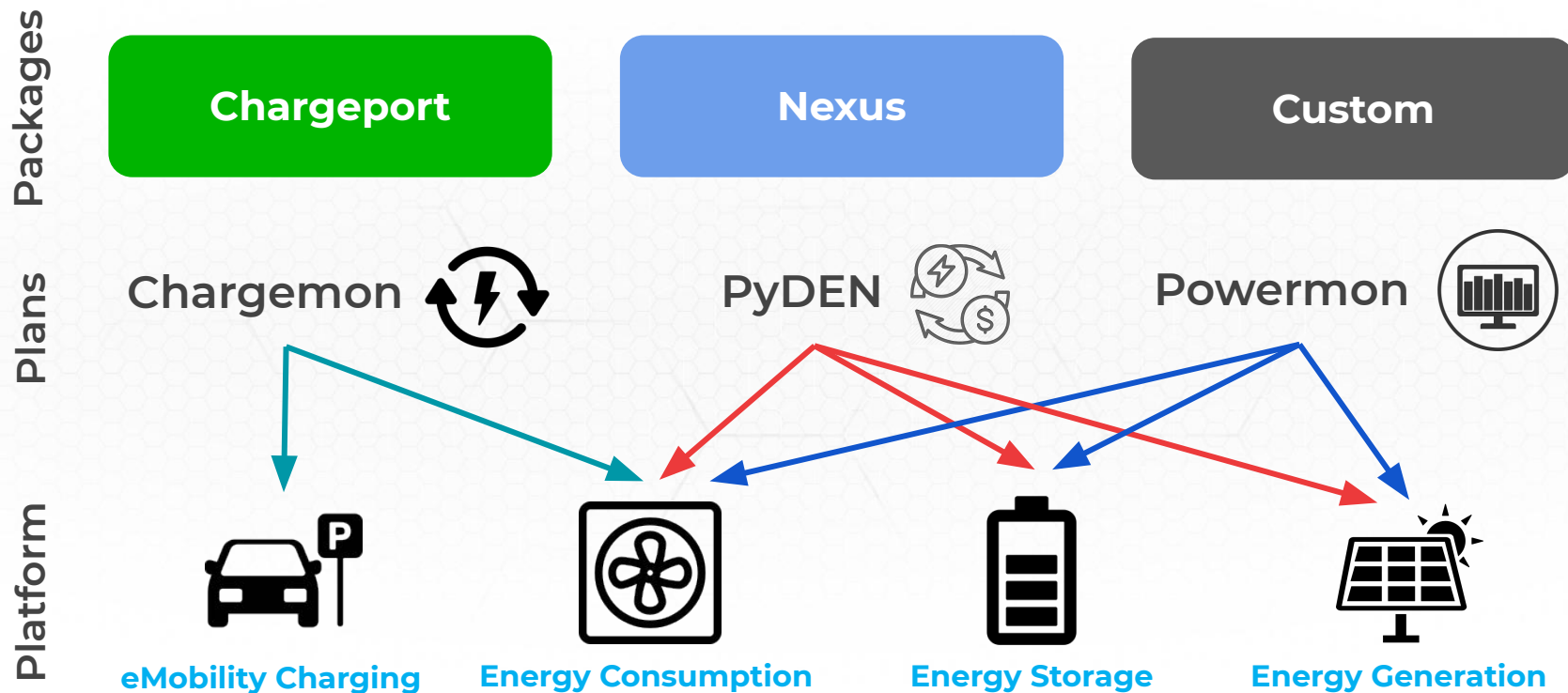* Energy retailer owns the ESS and uses it store excess solar energy to sell to the household

ANNEX **OF SUPPLEMENTARY INFO**

Pricing guide, partners and team

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Our Product Packages and Plans

Chargemon Pricing

CHARGING

$0.40

per kWh

Automated pricing system*

Real-time monitoring of charging consumption

Works with Powermon

$0.113
earned per kWh

* Up to 50% profit-share; payment gateway fees of 0.5% + SGD0.50 applies per transaction

SYSTEM

$3,600

per year

1 Admin User

1 Location**

EVC Reservations Management

Chargemon Management Dashboard

$3.29
per port / day

** Up to 2x 22kW AC chargers per site with the same address

CUSTOM

Addons and Integrations.

+Admin Users @ $10/mth/admin
+Fast Charging @ $375/mth/port
+API** @ $60/mth/100k requests
+Lot reservation barrier @ To be quoted
+Customization @ To be quoted

** For integration with your own devices and 3rd Party Software

Powermon Pricing

BASIC

$3,000

per year

1 Admin User
1 IPC Logger
2yrs Data Retention
Standard App & Dashboard
Pre-integrated Devices

$8.33
per device / day

PRO

$9,000

per year

1 Admin User
1 Location*
4yrs Data Retention
Asset Management
Maintenance Management
All Basic Features

$8.22
per device / day

* Up to 3 loggers per site with the same address

ENTERPRISE

All Pro Features

With Custom

Solution, Addons

and Integrations.

+Admin Users @ $10/mth/admin
+App Users @ $5/mth/user
+IPC Logger @ $600/yr/device
+SIM Router @ $200/yr/device
+API** @ $60/mth/100k requests
+Customization @ To be quoted

** For integration with your own devices and 3rd Party Software

PyDEN Pricing

EXCHANGE FEE

3%*

per clean energy credit
purchased by end-user

1 Location**

Enables digital wallet in
mobile app

Collect payments for utilities
digitally

**Sell clean energy credits to
tenants / EV owners**

CUSTOM

Addons and

Integrations.

+API*** @ $60/mth/100k requests

+Customization @ To be quoted

** Energy trading is currently only available within a site with the same address

*** For integration with your own devices and 3rd Party Software

* Payment gateway fees of 0.5% + SGD0.50 applies per transaction

Our Partners in Sustainability

ALLOCATE SPACE

- Facility management and maintenance
- Facility monitoring and automation
- Performance-based cleaning management
- Asset lifecycle management

TRIA

- Sustainable packaging
- Closed loop system for single-use foodware and food waste
- Waste management reporting

LIONSBOT

- Floor-cleaning robots
- Cleaning automation
- Robotic fleet management

About Us

Pylon City is an [Internet of Energy](#) (IoE) startup that aspires to make cities greener, smarter and more energy efficient.

Our Pylon Decentralized Energy Network (PyDEN) empowers real estate owners and property developers who are producing solar energy to become clean energy retailers and operators of carbon neutral charging stations.

Our products are used by our clients to track end-to-end, the generation and consumption of clean energy for facilities and e-mobility.

Pylon City is one of the 7 startups from Shell StartUp Engine Cohort 3

The Team

Jason Law
CEO
Business Developer
Solar Engineer

Vincent Lau
CTO
Tech Innovator
Cloud Architect

Gerard Ng
User Experience & Design Lead
UI Designer
UX Specialist

Muhammad Zahir
IoT Engineer
Comms Specialist
Firmware Programmer

Pylon City was born after the founders participated in a Climate Innovation Hackathon in 2016 and won the category prize for creating a Net Zero Carbon District.
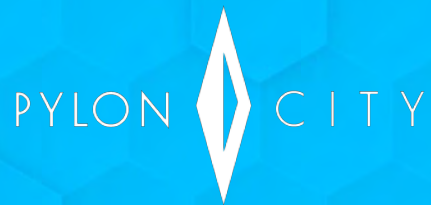
Contact Us

Jason Law
jason@pyloncity.com

Vincent Lau
vincent@pyloncity.com

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https://pylon.city