



Petalite are disrupting the Electric Vehicle industry by inventing a charger that is 30% cheaper & 4x longer life than the competition.

Understanding the global EV charging market

By 2030...

Global Electric Vehicle (EV)
market will grow 100x to \$3.75tn*

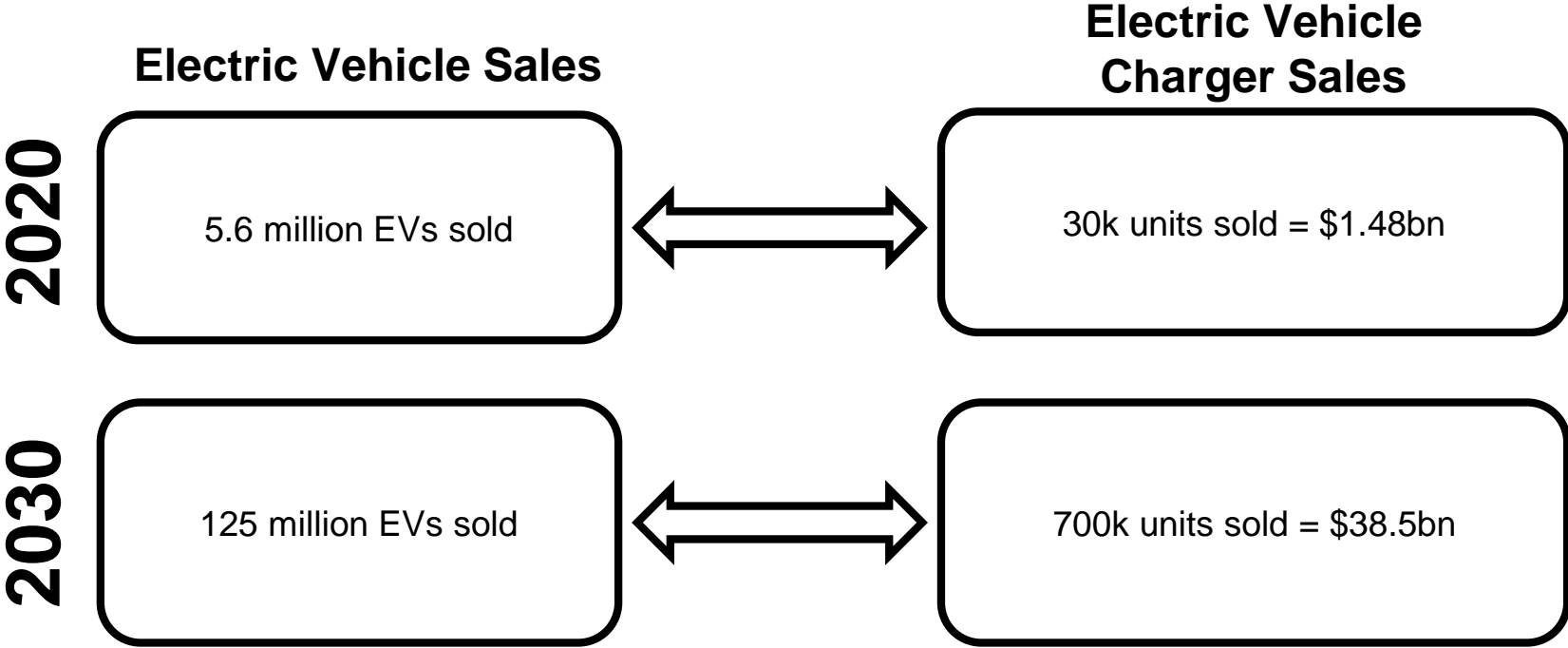
**Electric Vehicles includes Cars, Trains, Trucks*

Means the EV charging market will grow 100x to
\$1trillion*

**Polaris Market Research, Dec 2017:
Electric Vehicle Charging Infrastructure / Stations Market*

Understanding the global EV charging market

Electric Vehicles need chargers as the market grows



EV evolution over the past 20 years

Batteries became 5x longer lasting & 10x cheaper from new innovations

However, chargers have remained fundamentally the same, seeing only minor improvements in lifetime

The major flaw in charging architecture

All existing chargers require electrolytic capacitors to convert AC from power stations to DC to charge batteries

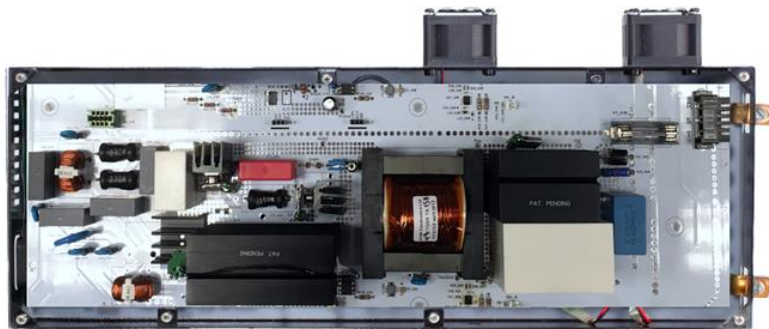
And if capacitors fail, the entire charger fails.

Resulting in short lifetime (approximately 5 years)



A new way to convert AC/DC is needed

Petalite's patented technology removes these capacitors



Petalite SDC Charger

1,000 Watts



Existing "Full-Bridge" Charger

750 Watts

4x

Longer Life

50%

Lower Cost

30%

Fewer Parts

Business model

Petalite sells its chargers to car charging network operators and OEMs



Leading competitor:

Estimated

Price: £27,000

Lifetime: 3-5 years



Petalite

(at equally scaled manufacturing)

Estimated

Price: £15,000

Lifetime: 15 years

Growth Plan

Stage 1: 2019

Build charger demonstration for commuter trains

(Complete) -Vivarail pilot project

£305k Revenue

Stage 2: 2020

Commercialise chargers to work with Cars & Trams

2 major OEMs in contract negotiation

£700k Revenue

Stage 3: 2021

Roll out technology to car charger stations around the world

2 EV Partnerships signed

£1.6m Revenue

**Petalite will sell 600 units in 2023, worth £6.1m
& 3,500 units in 2024, worth £51.2m**

Traction: VivaRail pilot

vivarail

£1m pilot project (Petalite £305k) completed 2019

Full electric commuter train

5 minute charge

Service expected in 2022

50% cheaper than existing systems

“Petalite are creating the industry standard for fast battery chargers”

Ian Wenman, CFO & Chairman, Vivarail



Team



Dr Stavros Pressas - Co-Founder & CTO

Dr Stavros Pressas has 40 years of experience in the development of power electronics & patents, co-founding a company, NSE in Greece.



Leigh Purnell – Co-Founder & CEO

Leigh is a trained engineer (GE Energy) and co-founding a World Record breaking vehicle adventurer, circumnavigating the Earth, with a media reach of 84 million viewers

Plus...

2 Dr's of electronic engineering

5 Power electronics engineers

Exits in the industry

Petalites value is in its IP portfolio, its hardware sales increase this valuation exponentially

**ChargePoint
valuation of
\$1bn, IPO
expected
soon**

**EDF Energy
in talks to
buy Pod
Point for
\$300m**

**BP
acquisition of
Chargemaster
for £130m**

 -chargepoint®

 EDF
ENERGY

 bp chargemaster

 petalite®



Petalite has raised £1.1m to date through grant & angel investment

January £500k EIS (limited allocations remaining)

Roadshow: 9th December - 13th Jan 2020

Beginning book build for £5m Series A,
September 2020. NDA data room available

Thank You

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