



RECTIFIER TECHNOLOGIES LTD (RFT)

Annual General Meeting 2019



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2017 to 2019...



Oct 2017 - RTM moved into a new manufacturing facility acquired in Nov 2016.

Oct 2019 - Expansion of group headquarters and R&D facility.

Dec 2019 - RTM production expansion.



A Glimpse into the Future

E-Mobility has taken our business to another level.

EV Battery Capacity will **continue** to increase.

Elimination of On-board chargers. External DC chargers only.

Most charging (80-90%) will be conducted at **home**.

Destination Charging (in DC) ~**50KW EVSE**

High Power Chargers to enable **long distance travel**



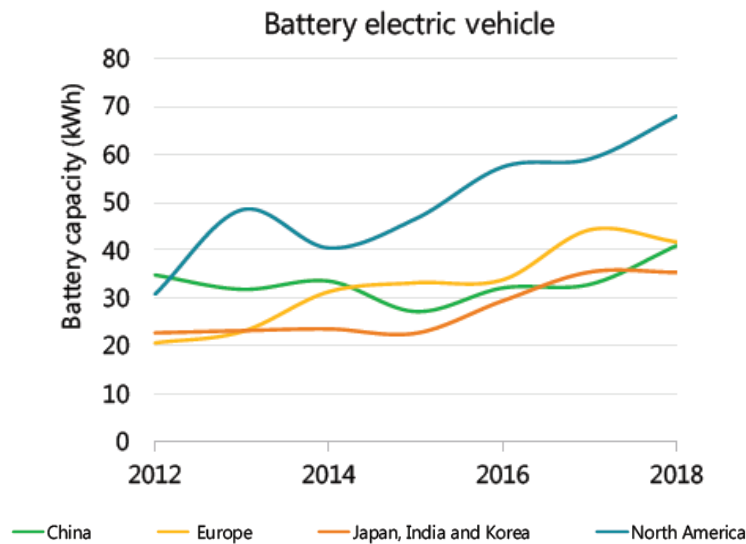
Spot the Similarity



**Headphone
Jack**

~14%  **Battery
Capacity**

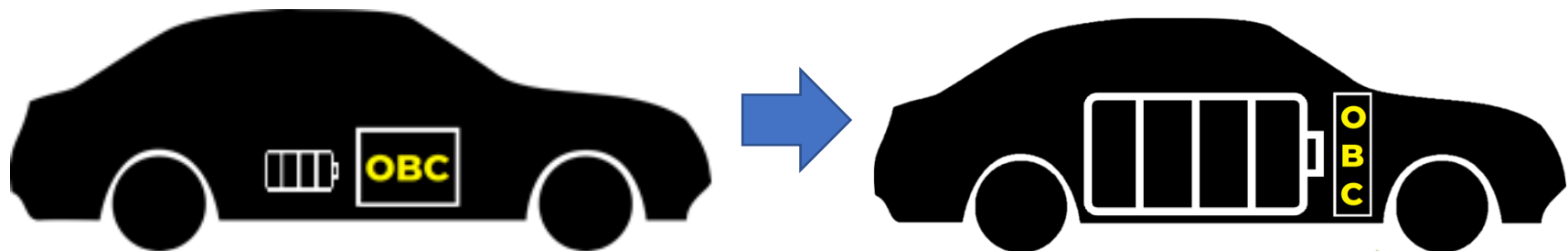
Battery Capacity Trend



Battery Capacity
increased 250% since 2012

Full Charge – **350 km**

Avg Daily Commute **65 km**



Sources: Data for 2012-15 are based on IHS Markit (2019), 2016-17 on Marklines (2019) and 2018 on EV Volumes (2019).



Is it Possible?

80%
charge at HOME

3X cheaper
to charge at home
vs public



<https://www.energy.gov/eere/electricvehicles/charging-home>

Effects of Removing OBC

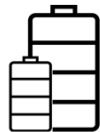
Automakers



Weight
of Car

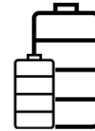


Cost of Car

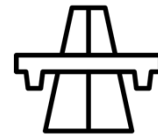


Battery
Capacity

EV Owners



Battery
Capacity



Electric
Miles



Price of EV

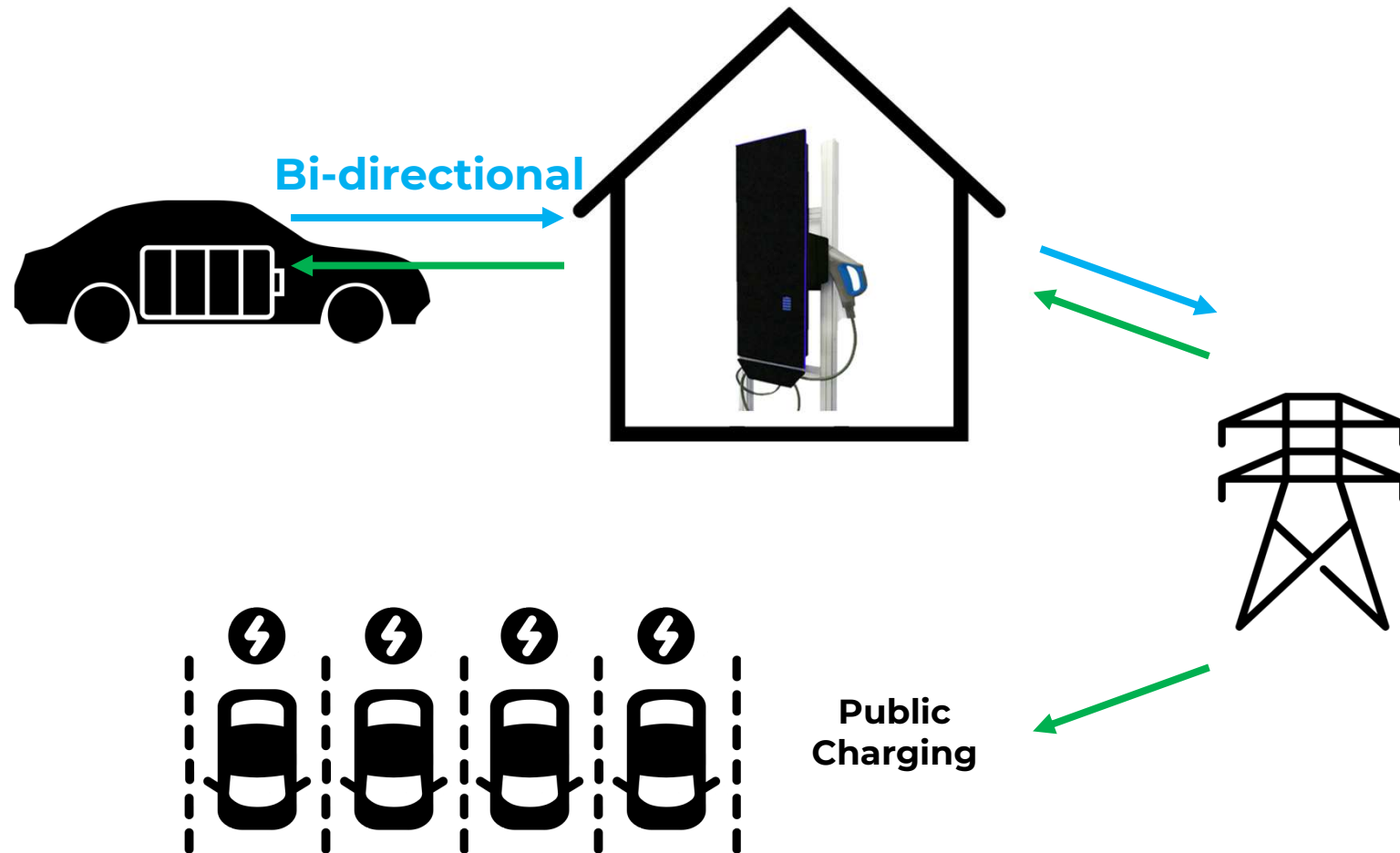
11kW EV DC Home Charger



**Pre-Production
units shipped**



The Rectifier Way



V2G (Chademo) in 2020

Public DC Charging

Develop and manufacture
high voltage, high efficiency and **high power**
modules for 50KW EVSE and above.



50KW EV Charger Module (preliminary)

for High Power Charging in 2020

Input	3 Φ 400VAC or 480VAC
Output Power	50KW
Output Voltage	200 – 920VDC
Efficiency	>96%
Serviceability	Hot-pluggable
Weight	<50KG
Interface	CAN Bus
Dimensions	482.6(w) x 440(d) x 175(h) mm





Thank You

