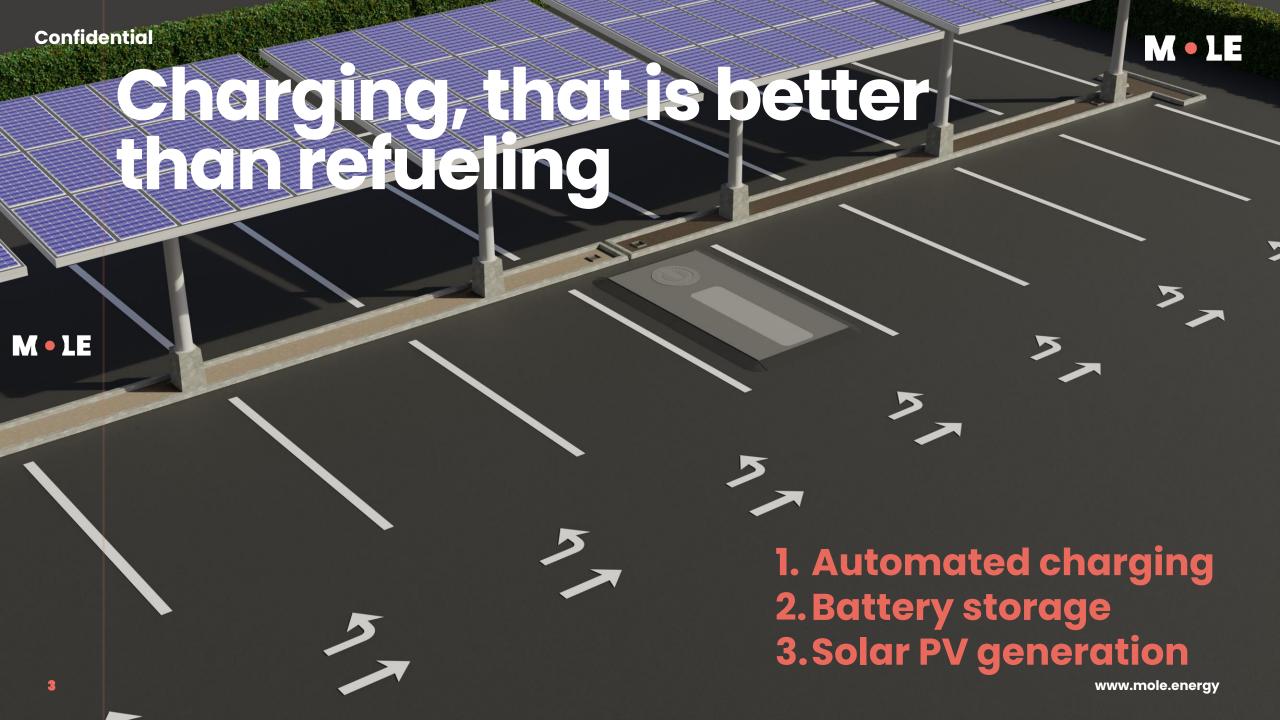
Confidential



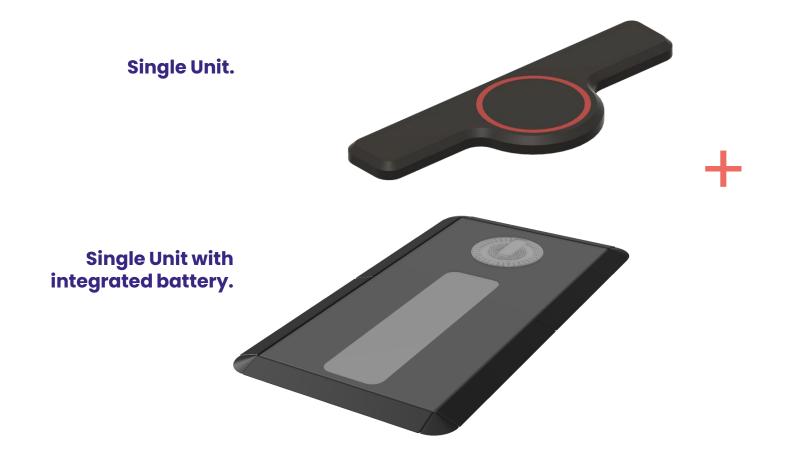
Auroskanda Vepari, CEO & Director auroskanda@mole.energy +44 (0)7917203870

Infrastructure Workshop CHAdeMO Association, Member Event, 12 March 2024, Tokyo, Japan

MOLE Video



Parking bay topper with multiple power inputs





Solar PV Canopy



Streetlamp



Grid supply



Internal battery

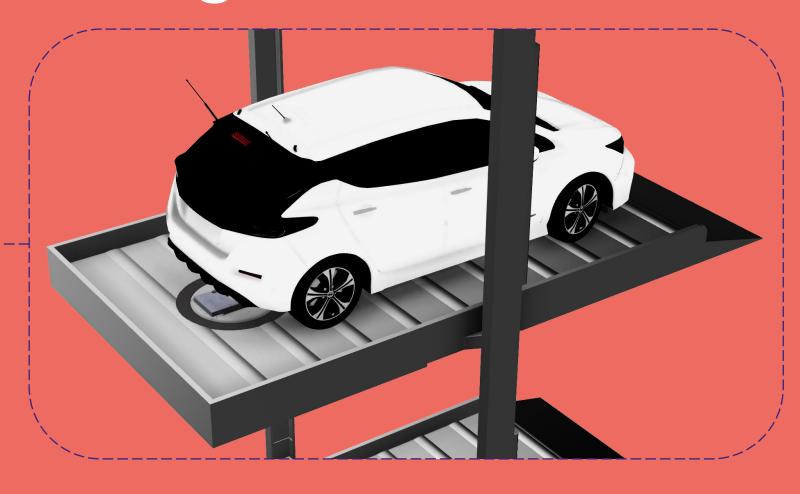






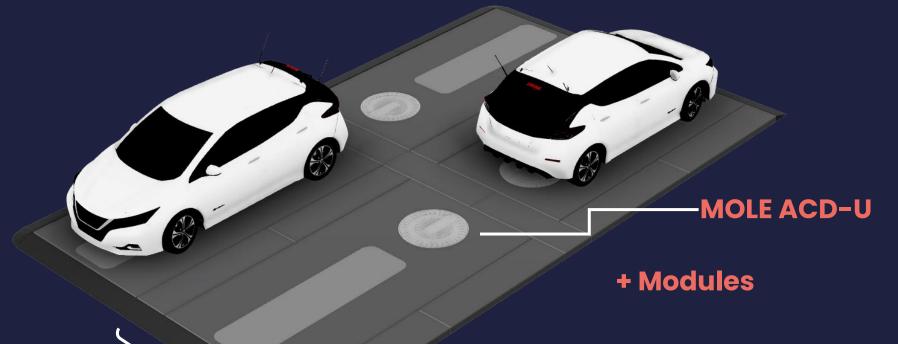
Elevated Parking





M • LE

The MOLE end-to-end solution



M • LE

- 1. Automation = best user experience
 - 2. Batteries = best electricity price
 - 3. Solar PV = green credentials

Just park, let MOLE charge

The MOLE is a robotic ground unit fixed inside a parking bay. Any vehicle with the MOLE underbody inlet can park over the ground unit and charge its battery via the underbody adapter.

MOLE is an early mover in automated charging systems. Our IP portfolio is growing and includes granted patents.

Emerging standards for automated charging (ACD-U) indicate a large market.

MOLE is a conductive system: more efficient, scalable and cost competitive than wireless/inductive systems.

MOLE is market ready for commercial vehicles, and consumer versions are under development.





BUILT FOR COMPATIBILITY

















TYPE 1

TYPE 2

CHADEMO

CCS1

CCS2

NACS

MCS

ACDU



MOLE can be connected to any standard EVSE or supplied with an integrated AC EVSE and can interface with any charging back-end and front-end.







Any vehicle fitted with the MOLE underbody inlet can charge with the MOLE Ground Unit.

■ MOLE Underbody Inlet







HGVs



GSEs & AGVs



BUSES



AUTONOMOUS SHUTTLES



SPECIAL FLEETS



CARS

Simple vehicle Installation

Post registration modification through authorized dealers, garages or by customers' fleet ops/engineering teams (DIFM/DIY).

In the future factory or dealer fitted installation with OEM support is planned.

Light, inexpensive and fast to install on the vehicle (~2 hrs)

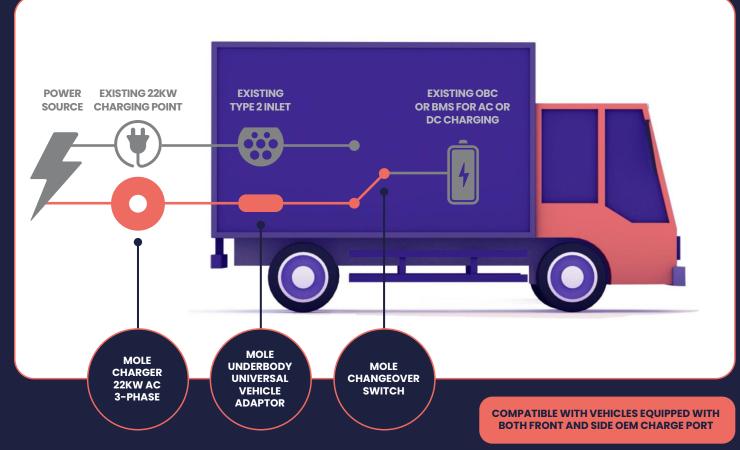
An underbody power input is added (with regulation) to existing OEM supplied circuit which is unaltered.

Existing side or front charging remains usable.

The MOLE installation is easily reversible and easy to remove.

Insurances unaffected and available.

Value added integration with full OEM involvement is planned to support additional services and user benefits.



Watch how MOLE is installed



As EVs deploy, user needs are emerging

Fleet depots loose 20% to 30% of capacity to make space for charging.

Smooth charging operations is crucial for operational efficiency.

Automation can achieve full control and optimization of charging infrastructure.

Fast and flawless execution of trading decisions, smart charging operations and route dispatch optimization.



Costs and limitations of manual operations

Manual charging increases logistics drag.

Fleet managers rely on drivers or depot operators to connect and disconnect vehicles, including moving them around.

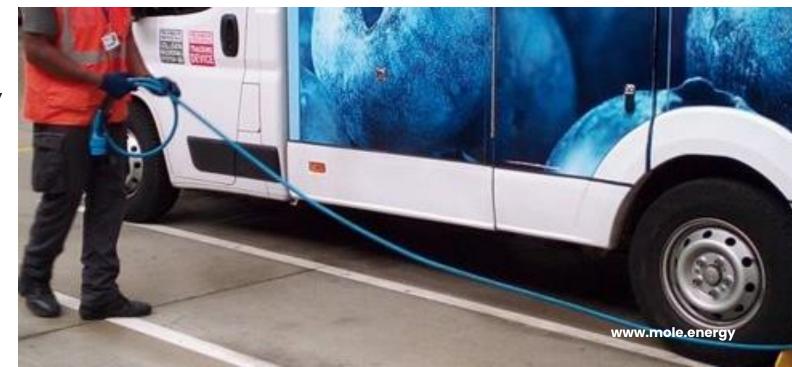
This costs a lot in time, disruption and operational risk (outages, breakages, accidents and delays).

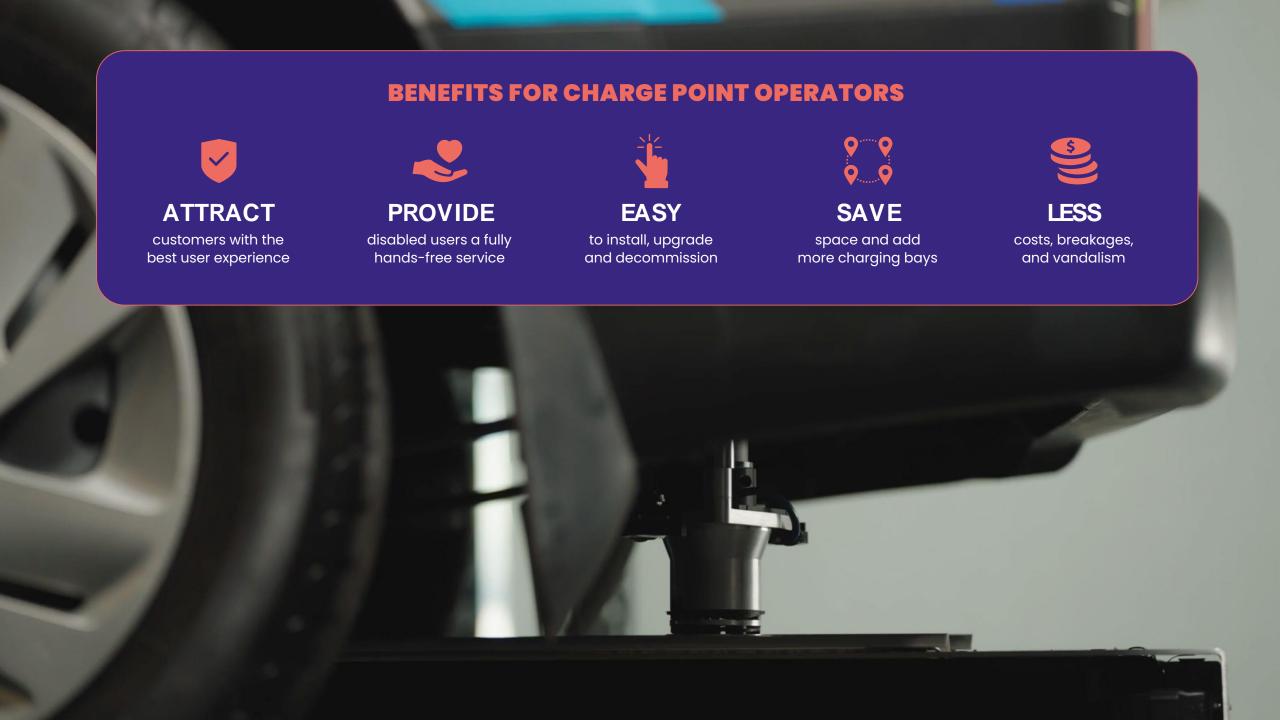
Fast and flawless execution in this environment is hard to achieve when the number of vehicles under management increase.













CURRENT BEST PRACTICE.

Operators allocating a large cost towards extra space and call out assistance services (e.g. fuelSerivce callout), but the experience for disabled users remains unchanged.



DISABLED CHARGING BAY WIDTH (2X REGULAR BAY)

DISABLED CHARGING BAY WIDTH (1.5X REGULAR BAY)

SPACE SAVING: 50% OF REGULAR BAY **REGULAR BAY**





Confidential

OUR JOURNEY

Funding

Commercial

H2 2018

MARKET RESEARCH

Industry Standards

Granted Patents



2019

FEASIBILITY STUDIES





2020

PRODUCT DEVELOPMENT





2021

PROTOTYPING AND LAB TESTING





2022

FIELD TRIALS



M • LE

2023

PAID TRIALS



'A great product'

nterprise

'Solves our problems and we would like to try MOLE'



'MOLE aligns with our priorities for our fleet'



'MOLE is ahead of the curve'



'Really interesting implementation and development plans'



'MOLE is years ahead of any ACD(U) we have seen on the market'





information@mole.energy mole.energy @mole_energy

PLEASE GET IN TOUCH IF YOU WOULD LIKE TO KNOW MORE OR WORK WITH US.

THANK YOU!

UK

Auroskanda Vepari CEO & Director +44 7917 203870 auroskanda@mole.energy

Media / Press

Theresa Simon & Partners
Theresa Simon, Director
theresa@theresasimon.com
+44 7976 766221