



How to ensure EV charging is future ready

Energy Solutions Show

Phil Best – Total Gas & Power

Martin Hale – ChargePoint



5th June 2019

GRP (Gas, Renewables & Power)





Market Site Numbers & Volumes





Total have partnered with Chargepoint to provide end to end EV charging solutions



Oil companies have shown an increasing appetite to move into the electric car market. Shell has also bought the Dutch charging firm New Motion, BP bought the UK's biggest network for £130m and on Thursday the French firm Total went into partnership with the US company ChargePoint to sell chargers to UK businesses.

https://www.theguardian.com/environment/2018/oct/25/s hell-starts-rollout-of-ultrafast-electric-car-chargers-ineurope



News

Tesla



(OCT 28 2018 BY MARK KANE 📃 2

INSIDEEVs

Total feels it's time to prepare for changes.

Total Gas & Power has entered into a partnership with **ChargePoint** to expand its gas and electricity to charging stations in the UK as forecasts say that the mass adoption of electric mobility is coming.

According to the press release, it's a reseller partnership, which means that Total intends to offer its business customers a comprehensive EV charging solutions and services, including both AC charging and DC charging, as well as a network connecting all the charging points, drivers and stations owners.



ChargePoint - The Unrivaled Open Fueling Network

Ports



www.fortune.com/fortune500/list/

www.greatplacetowork.com/best-workplaces/100-best/2019



The Future of Mobility is Electric

Governments are enacting aggressive policies to curb emissions

... leading to mass EV adoption

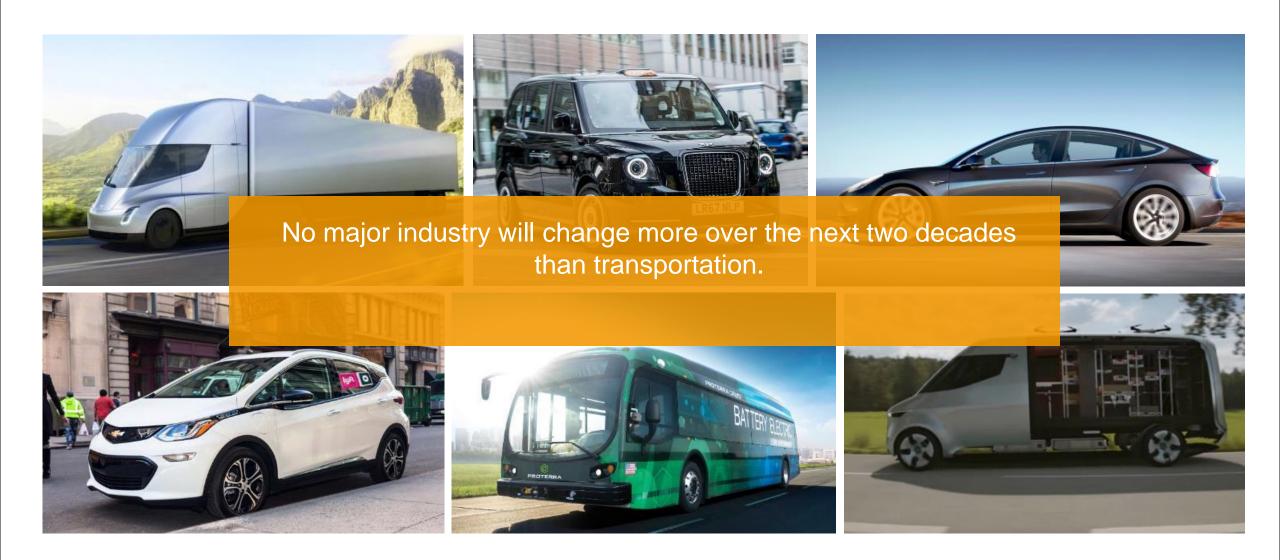
Automakers are investing billions in new EV models

Consumers and fleets are shifting to electric...



-chargepoin-

The Future of Mobility is Electric





The Future of Mobility is Electric



market."

-Electric Vehicle Outlook 2018, Bloomberg New Energy Finance







-chargepoin-

Value Proposition

Home	Fleet	Workplaces 925 Inc	Multi-Family Commercial Homes Property	Parking	Retail & Hospitality
				enter	shopsmart
N GREATER CONTROL & BILITY	LOWER COST OF TRANSPORTATION	ATTRACT & RETAIN TALENT	ATTRACT & RETAIN RESIDENTS & TENANTS	ATTRACT NEW CUSTOMERS	INCREASE SALES
rack usage and expenses Charge during off-peak hours Achieve sustainability goals	 Meet government mandates and regulations Reduce operating expenses with lower fueling and maintenance costs Achieve sustainability goals Proactively manage expenses Grid friendly power management 	 Increase employee satisfaction Improve productivity Achieve sustainability goals Provide pricing controls to support your business goals 	 Increase average rent and property value Provide valued amenity Meet emerging state and city regulations Achieve sustainability goals 	 Drive revenue Provide differentiating amenity 	 Attract new and repeat customers Increase shopping time Boost customer satisfaction Achieve sustainability goat Integration with loyalty programs





Best-in-class & Global Hardware Portfolio









First EV charging stations to be ENERGY STAR certified

Modular Approach: Simplifies service and repairs, minimising down-time



Future Ready Charging Software and Services

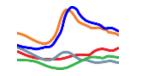


Dashboard & Analytics

Station owners see how stations are being used and when it's time to add capacity.



Waitlist Drivers can get in line and get notified when the station is available – improves utilization.



Energy Management

Efficiently and automatically utilize power available for charging vehicles. Save money on costly upgrades and avoid demand charges.

\$ —
\$ —
\$ —

Flexible Pricing

By hour, by kWh, by time of day, by customer type, or by any combination.



Access Control Limit who can use the charging stations and when. Station owners can disable charging during "closed" times.



Fleet Services Fleet Managers can track vehicle

charging and pay for fuel if the vehicles need to charge at other stations.



Driver Services

Automatically notify drivers when: fully charged, a station becomes available, power outage or decrease, and more.



APIs

Most functions are also available through SOAP/XML and REST APIs that follow the same data access rules as the UI.



Future Ready Installation, Service and Support

- Site Assessment, Scoping and Project Management
 - Future Proof the installation ready for future Upgrade
 - Accurate site qualification, quality site preparation and professional installation
 - Partnered with nationwide network of O&M professionals to provide setup services
 - Initial Activation and Configuration service provides a specialist to consult directly with set-up and activation of station
- Ongoing Service Support
 - Standard warranty coverage for one year parts only when installed by ChargePoint dealer
 - ChargePoint Assure most comprehensive EV station maintenance and management program
 - 24/7 driver support in multiple languages





THANK YOU

For further information, please contact Phil Best: phil.best@totalgp.com

