



EV Charging Infrastructure

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BULLETIN

ENERGY

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WHAT'S INSIDE!

- Companies like Polestar and McDonald are partnering with EV charger service provider to enlarge their market reach
- An increasing demand of high speed or ultra fast charging in British Columbia
- Tritium has secured \$45m deal from US healthcare giant Cigna Corporation

01



In Europe, Polestar partners with Plugsurfing for EV public charging

06



MG Motor, Tata Power join hands to set up EV charging booths

02



McDonald's partners with InstaVolt to create EV charging network

07



Volkswagen launches home EV charging system sales ahead of ID.3 vehicle deliveries

03



800V EV Charging will drastically reduce waiting time

08



Bosch launches App with access to 150K EV Chargers across Europe

04



Electrify Canada expands network of High-Speed EV Chargers to British Columbia

05



Electric car charging station company Tritium lands \$45m deal

02 June 2020

In Europe, Polestar partners with Plugsurfing for EV public charging



“The partnership will boost the payment service as Plugsurfing is offering a centralized charging payment service that can be used at public charging points in Europe.

A key benefit of the Plugsurfing partnership is the flexibility to charge easily especially when travelling abroad”

Adam Woolway, Co-Founder
Plugsurfing

Polestar  PlugSurfing

- Volvo's electric sister brand Polestar has announced a partnership with Plugsurfing to provide convenient access to various public charging networks in Europe using a single account and payment
- With over 195,000 compatible EV charging points in the region, Plugsurfing provides a convenient solution to accessing and paying for electricity from a variety of public charging service providers

The service has been designed in such a way that users only need one account to use charge points from various providers. The company is also offering a Plugsurfing key card at the time of purchase and encouraged to sign up for a free account

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29 June 2020

McDonald's partners with InstaVolt to create EV charging network

INSTAVOLT



- The UK electric vehicle charging network, InstaVolt, is partnering with McDonald's to roll-out electric vehicle (EV) rapid charging points across its “Drive Thru” restaurants in the UK
- Given the vast number of McDonalds stores in the UK, this means some 1,300 restaurants will receive chargers, a massive boost to EVs in the country

The partnership, the first of its kind for a major UK restaurant chain, will increase accessibility of rapid charging for drivers across the UK by providing a network of convenient and recognizable locations beyond service stations, residential streets and workplaces.

Further this partnership will help to provide better charging facilities as InstaVolt's new rapid charging points are capable of charging at 125kW and can deliver an 80% charge in less than 20 minutes, making EVs a more realistic prospect for drivers than ever before

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05 June 2020

800V EV Charging will drastically reduce waiting time



PORSCHE



- Porsche has “Taycan” EV unique - whereas most EVs have a 400V electric system, the Taycan runs on 800V. The 400V EVs can be charged at around 150 kW, but there are already even faster 800V chargers out there that can pump juice back into a battery pack at a rate of 350 kW
- General Motors is also going to deploy 800V vehicles in the near future

Porsche has its “Taycan” that can be charged from 5 to 80 percent in exactly 22.5 minutes, although it doesn’t quite reach 350 kW, even when using an 800V charger; its maximum charging capacity peaks at 270 kW (it’s closer to 250 kW most of the time) and between 50 and 150 kW from a 400V station

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15 June 2020

Electrify Canada expands network of High-Speed EV Chargers to British Columbia



- With the opening of its first British Columbia station in Merritt, B.C, Electrify Canada today announces its official expansion into Western Canada. Electrify Canada expands network of High-Speed EV Chargers to British Columbia
- Electrify Canada already has four charging station sites open in Ontario, with fifteen more in the planning stage in Ontario and Quebec

By the end of the year, electric vehicle drivers in British Columbia will be able to charge up at nine new stations along the Trans-Canada Highway and Highways 97 and 99

Electrify Canada’s new locations will create a network for EV owners to access a number of the province’s most popular tourist attractions, including the Nicola Valley, Banff National Park, Discovery Trail and Riverside Park Beach

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“The partnership of Tata power will associate with MG Motor India as an end-to-end EV charging partner and also work on the second life of battery usage in the future Company is confident that this partnership with MG Motor will further boost our country’s ability to adopt the electrified range of vehicles”

Praveer Sinha

CEO and Managing Director,
Tata Power

08 June 2020

Electric car charging station company Tritium lands \$45m deal



TRITIUM



- Australian electric vehicle charging infrastructure company Tritium has secured a \$45 million investment from US healthcare giant Cigna Corporation, that will accelerate the company’s expansion into the United States
- The funding in the midst of a pandemic showcases the credit-worthiness of the Tritium due to strong business fundamentals

The funds will refinance an Export Finance Australia trade finance facility and to increase production capacity for the company which has already sold more than 4500 charging stations around the world

It’s one of the largest private investments in Australian electric vehicle technologies, and the investment in Brisbane-based Tritium is an enormous vote of confidence for Australia’s emerging electric vehicle capabilities, especially in a period a tough economic environment.

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08 June 2020

MG Motor, Tata Power join hands to set up EV charging booths



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TATA POWER

- MG Motor India has joined hands with Tata Power to set up superfast chargers for electric vehicles (EV) at select MG dealerships and offer end-to-end charging solutions to its dealers across India
- Tata Power will deploy 50KW DC superfast chargers at select MG dealerships besides offering end-to-end electric vehicle charging solutions

These superfast 50KW DC chargers will be accessible by both MG ZS EV customers as well as other EV owners whose automobiles are compatible with the CCS/CHAdEMO charging standards

Company has established an elaborate EV Charging ecosystem with over 180 charging points in 19 different cities under EZ Charge brand along with a digital platform to facilitate easy and smooth customer experience

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“The company has developed recharging services that can provide drivers access to one of the biggest pan-European EV recharging networks.

In doing so, company is making electro mobility even more viable and company will offer its solutions as a white label product for charge-spot finders provided by automakers, fleet operators, and mobility service providers”

Elmar Pritsch, President
Connected Mobility Solutions Division
Bosch

12 June 2020

Volkswagen launches home EV charging system sales ahead of ID.3 vehicle deliveries



- **VW is launching its ID home charging station and will be offering installation ahead of ID.3 deliveries set for later this year. In their announcement, they also mentioned that they will soon have a “complete charge network around the ID.3.”**
- **The ID.3 is the first electric vehicle under the ID label and will only be sold in Europe**

Customers who made reservations for the launch edition, known as ID.3 1st, will be able to order their vehicle starting June 17 and company will start delivering the ID.3 1st in September onwards.

Volkswagen is making three versions of the Wallbox i.e. ID. Charger, ID. Charger Connect and ID. Charger Pro starting at price of €399, €599 and €849 respectively.

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18 June 2020

Bosch launches App with access to 150K EV Chargers across Europe



- **Bosch has announced the launch of its proprietary EV charging network and application “Charge My EV” that offers electric vehicle (EV) drivers access to locate available chargers across ~150,000 EV charging spots anywhere in Europe**
- **The Bosch recharging network is constantly growing and it is expected to include some 200,000 charge spots by the end of 2020 across Europe**

The company has built the network by concluding contracts with operators and using methods such as roaming to connect the charge spots. As a result, more than 27,500 charge spots in Germany and 4,470 charge points in the UK are now part of the network.

Company also made payment simpler by using the credit card details uploaded to it and provides users with a monthly statement of recharging costs

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SPOTLIGHT



The company claimed that Grizzl-E can even work as extreme conditions. It has a NEMA 4 rating, which is good for indoor or outdoor use and protects against extreme weather events including blowing rain and snow. That's important to United Chargers as they are a Canadian company and set out to make EV charging equipment that can withstand the toughest Canadian winters

“Grizzl-E” - Tough 40-Amp EV Home Charger

Grizzl-E home charging station is a relatively new offering in the electric vehicle charging market. It's made in Canada by United Chargers and promises adjustable power delivery up to 40-amps at a reasonable starting price of just \$399

- ✓ **Power:** The Grizzl-E is a 240-volt level 2 EV charging station that can deliver up to 40-amps to the vehicle. Many home charging products today are limited to 32-amps, so the Grizzl-E is one of the more powerful chargers in the market
- ✓ **Ease of Installation:** It is a plug-in unit, so the entire installation process is limited to screwing the mounting plate
- ✓ **Construction & Cables:** It's outer casing is made of thick, durable aluminum, making it one of only a few EV chargers that have metal enclosures; most others are made of plastic
- ✓ **Connector Holster & Cable Management:** It has a plastic remote connector holster that can be mounted wherever the owner desires. United Chargers calls it the "Easy EV Plug" because it's designed to allow the user to holster the connector easily, even in a dark garage

GRIZZL-E HOME EV CHARGING STATION

Output	40 Amp, 10 KW - Factory set. with DIP switches can be hardware configured to 16A, 24A or 32A output
Charge Rate	28-30 miles per hour at 40A, 22-25 miles per hour at 32A, 15-18 miles per hour at 24A and 10-12 miles per hour at 16A
Power Requirement	Requires Dedicated 240 V 50 Amp Breaker for 40A output, Dedicated 240V 40 Amp breaker for 32A, Dedicated 240V 30 Amp breaker for 24A, Dedicated 20 Amp breaker for 16A output
Cable Type	Regular Cable provides normal EV charging experience or Premium Cable provides a sleek design, more protection from the elements, and better low temperature handling.
Plug Type	NEMA 6-50P, NEMA 14-50P and J1772 – universal to all EV's
Operating Temperature	-30 to +50 C
Charging Cable Length	18 ft. or 24 ft.
Certification	UL Certified

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