

e-Road Písek - Deggendorf

Comparative Analysis of the Current E-Mobility State in the Joined Regions

Project #093

TSI Písek z.s.
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Ziel ETZ | Cíl EÚS
Freistaat Bayern –
Tschechische Republik
Česká republika –
Svobodný stát Bavorsko
2014 – 2020 (INTERREG V)



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regionální rozvoj

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Introduction

Due to a relatively short history of modern electromobility, it is not surprising that the ICT infrastructure and the connection of each element of e-mobility, whether these are charging stations, applications, or payment gateways, is not on the most interconnected level.

Even though there is a rapid increase in the number of charging stations in Southern Bohemia and Lower Bavaria, these stations are not interconnected on the ICT level so far. Currently, there is no main system that would be the authority when using the charging infrastructure, not is there any system that would connect all the necessary functions and ensure a complex management of the EV charging.

Individual Charging Station's ICT Connection Overview

There is a total of 19 charging stations in Southern Bohemia; however, some of them can only be used by guests. EV drivers have 38 plugs at their disposal. Majority of the charging stations are currently without a fee and mostly do not enable booking. It is possible to find the charging stations on several web servers; the problem is that some of the stations do not exist.

Place	Locate	Book	Pay
Dentamechanik	- EV Mapa - Hybrid.cz - eCharging App - Nextcharge	EV Mapa	EV Mapa
Technologicke centrum Písek	- Google Maps - EV Mapa - Elektrina.cz - Hybrid.cz - eCharging App	Phone	Cash
Střední průmyslová škola	- Google Maps - EV Mapa - Elektrina.cz - Hybrid.cz - eCharging App - PlugShare App	Phone, email	Free
Technické služby	- EV Mapa - Nextcharge	EV Mapa	EV Mapa
Krumlovský mlýn	- Google Maps - PlugShare App	Phone	Free
Terms	- Google Maps - Elektrina.cz - Hybrid.cz - eCharging App - Polyfazer - Nextcharge	-	Free
U Kákonů	Google Maps	-	Cash
Sauron	EV Mapa	EV Mapa	EV Mapa
ELSUN	- Google Maps - EV Mapa - Elektrina.cz - Hybrid.cz - eCharging App	Phone, email	Free
Náměstí Dačice	- Google Maps - EV Mapa	-	Free

Marina Orlik	- Google Maps - Elektrina.cz - Hybrid.cz - eCharging App - PlugShare App	-	Free
Jiří Čech	Google Maps	Phone	Free
Lipno Servis	- Elektrina.cz - Hybrid.cz - eCharging App	-	Free
Franco's	PlugShare App	-	Free
U tří hrušek	PlugShare App	Only for guests	Free
Pivovar Kněžíněk	PlugShare App	In person	
Hotel Rychta	PlugShare App	Free for guests, not available for public	
JE Temelín Infocentrum	PlugShare App	In person	Free
OC Mercury	Elektrina.cz	-	Free

Table 1 – Locate, book, and pay in Southern Bohemia

The situation in Lower Bavaria is a little bit better. Charging stations can be found quite precisely thanks to user reviews, because these indicate possible issues. On the contrary from Southern Bohemia, majority of the stations is not free and most of them can be paid for with a special card. Not all are accepted, though. Booking is predominantly not possible, as in Southern Bohemia.

Address	Plugs	Locate	Book	Pay
49 E53 94469 Deggendorf	Type 2 22 kW Type 2 22 kW Type 2 22 kW CCS 20 kW CHAdeMO 20 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	E-WALD Plugsurfing New Motion
Ahornstraße 94259 Kirchberg im Wald	CHAdeMO 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
1 Am Aicher Feld 84032 Altdorf	CHAdeMO 50 kW Type 2 43 kW CCS 50 kW	* de.chargemap.com		SMATRICES
5 Am Alten Viehmarkt 84028 Landshut	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
1 Am Eicher Feld 84032 Altdorf	CHAdeMO 50 kW CCS 50 kW Type 2 43 kW	* de.chargemap.com		The New Motion Ladekarte ACE-Ladekarte POWER ME LichtBlick FahrStrom-Ladechip SMATRICES NET light SMATRICES NET
1 Am Museumspark 194258 Frauenau	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion

Address	Plugs	Locate	Book	Pay
8 Am Schulplatz 94099 Ruhstorf	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
33 Hausstein 94571 Schaufling	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
Badstraße 184028 Landshut	Type 2 22 kW	* e-tankstellen-finder.com		Free
22 Bahnhof 194209 Regensburg	CHAdeMO 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
8 Ladestraße 94249 Bodenmais	EU Schuko 3 kW EU Schuko 3 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
1 Bahnhofstraße 194227 Zwiesel	Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW CHAdeMO 20 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
26 Bahnhofsstraße 94327 Bogen	CHAdeMO 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
6A Bahnhofstr. 94060 Pocking	Type 2 22 kW Type 2 22 kW CHAdeMO 20 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
26 Bahnhofstraße 2694234 Viechtach	CHAdeMO 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
26 Bahnhofstraße 94336 Hunderdorf	CHAdeMO 20 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
2 Bahnhofstraße 94526 Metten	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
2 Bahnhofstraße 94526 Metten	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
4 Bahnhofstraße 94474 Vilshofen	CHAdeMO 44 kW CCS 44 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
6A Bahnhofstraße 94060 Pocking	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD

Address	Plugs	Locate	Book	Pay
	CHAdEMO 20 kW EU Schuko 3 kW EU Schuko 3 kW			Plugsurfing New Motion
67 Bahnhofstraße 84130 Dingolfing	Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Free
7 Bahnhofstrasse 794227 Lindberg	Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
10 Bahnhofstraße Busbahnhof 84359 Simbach am Inn	Type 2 11 kW Type 2 11 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
Bahnhofstraße 94078 Freyung	Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
14 Bauerngasse 94072 Bad Füssing	Type 2 3 kW	* de.chargemap.com		The New Motion card Ladenetz Plugsurfing 0,25 EUR per kWh
7 Bayerweg 7 (Kurpark)94379 Sankt Englmar	Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Birkenallee 994072 Bad Füssing	Tesla Supercharger 22 kW Type 2 22 kW	Only for guests		
Branntweinhäuser 17a94089 Neureichenau	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Brennesstraße 431/394252 Bayerisch Eisenstein	Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW	* e-tankstellen-finder.com		Cash
Burgstraße 3494360 Mitterfels	Type 2 22 kW Type 2 22 kW Type 2 22 kW	* e-tankstellen-finder.com		Cash
11 Domplatz 1194032 Passau	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
Donaugasse 194315 Straubing	Type 2 3,7 kW	* e-tankstellen-finder.com		Free
8 Donaustraße 94491 Hengersberg	CCS 50 kW CHAdEMO 50 kW Type 2 43 kW Tesla 125 kW Tesla 125 kW Tesla 125 kW Tesla 125 kW Tesla 125 kW	* de.chargemap.com	Not Possible	Free

Address	Plugs	Locate	Book	Pay
22 Dorfplatz 2294545 Hohenau	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
2 Dorfplatz 294158 Philippsreut	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
20 Dr.Josef.Ammer:Str. 2094513 Schönberg	22 kW Wohnwagen 3 kW EU Schuko 3 kW 22 kW	* de.chargemap.com		Free
1 Dr.-Walter-Bruch-Straße 94447 Plattling Globus	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Dreisesselstraße 1294145 Haidmühle	Type 2 22 kW Type 2 22 kW Type 2 22 kW	* e-tankstellen-finder.com		Cash
1 Eugenbacher Straße 84032 Altdorf	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
3 Flurweg 94527 Aholming	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
9 bAhnnhofplatz 94447 Plattling	Type 2 11 kW Type 2 11 kW Type 2 11 kW Type 2 11 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
32 Fritz-Schäffer-Straße 94560 Offenberg Neuhausen	CHAdEMO 22 kW CCS 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
2 Füssinger Straße 94060 Pocking	CEE 3polig 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
Gellert 1694575 Windorf	Type 2 22 kW Type 2 22 kW Type 2 22 kW	* e-tankstellen-finder.com		Cash
2 Gemeindezentrum 93471 Arnbruck	CHAdEMO 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
1 Georgsplatz 194344 Wiesenfelden	CHAdEMO 40 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Gewerbegebiet Bachfeld 94356 Kirchroth GSW	Type 2 22 kW	* e-tankstellen-finder.com		Cash
1 Graf Ulrich Philipp Platz 194554 Moos	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
2 Grünaustraße 294032 Passau	CCS 22 kW CHAdEMO 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion

Address	Plugs	Locate	Book	Pay
20 Handwerkerstraße 94559 Niederwinkling	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
14 Hans-Obser-Straße 94469 Deggendorf	Type 2 7 kW Type 2 7 kW Type 2 7 kW Type 2 7 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
16 Hauptstraße 1694252 Bayerisch Eisenstein	Type 2 22 kW Type 2 22 kW CHAdeMO 50 kW CCS 50 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
17 Hauptstraße 1794371 Rattenberg	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
34 Hauptstraße 94253 Bischofsmais	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
Hauptstraße 5684375 Kirchdorf am Inn	Type 2 3,7 kW	* e-tankstellen-finder.com		Free
Hauptstraße 784339 Unterdietfurt	Type 2 3,7 kW	* e-tankstellen-finder.com		The New Motion card - 0,275 EUR per kWh
8 Hauptstraße 894264 Langdorf	Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
21 Nicolaistraße 08209 Auerbach	CHAdeMO 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com	Not Possible	Free
Hintermarkt-Parkplatz 94496 Ortenburg	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
22 Industriestraße 2294347 Ascha	Type 2 22 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
8E Industriestraße 84326 Falkenberg	Type 2 11 kW Type 2 11 kW	* de.chargemap.com	Not Possible	Free
1 DEG18 94554 Moos	Type 2 7 kW Type 2 7 kW Type 2 7 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
19 Ingolstädter Straße 84030 Landshut	Type 2 22 kW Type 2 12 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
Kirchweg 294104 Tittling	EU Schuko 3 kW EU Schuko 3 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Klosterplatz 94501 Aldersbach	Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
10 Konrad-Adenauer- Str. 94469 Deggendorf	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash Ladenetz Plugsurfing New Motion
Laiflitz 394259	CEE 5polig 3,7 kW CEE 3polig 3,7 kW	* e-tankstellen-finder.com		Free

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Kirchberg im Wald				
22 Landshuter Straße 84307 Eggenfelden	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Landshuter Straße 384095 Furth	Type 2 22 kW	* e-tankstellen-finder.com		Cash
56 Landshuter Straße 84130 Dingolfing	CCS 50 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		ChargeNow
15 Leutnerstraße 94315 Straubing	CHAdeMO 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
9 Ludwig-Erhard-Str. 84034 Landshut	Type 2 22 kW Type 2 22 kW EU Schuko 2 kW	* de.chargemap.com	Not Possible	Free
Mariakirchener Straße 494424 Arnstorf	CEE 3polig 3,7 kW	* e-tankstellen-finder.com		Free
Marktplatz 484367 Tann	CEE 3polig 3,7 kW	* e-tankstellen-finder.com		Free
Marktplatz 94239 Ruhmannsfelden	Type 2 22 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
2 Marktplatz 94116 Hutthurm	CHAdeMO 22 kW CCS 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
4 Maximilianstraße 84359 Simbach am Inn	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
5 Mühlbergstraße 94535 Eging a.See	EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
1B Nießestraße 84036 Landshut	Type 2 22 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
1 Niederdörfel 93309 Kelheim	Type 2 11 kW Type 2 11 kW	* de.chargemap.com	Not Possible	ChargeMap Pass
Obere Hofmark 394424 Arnstorf	Type 2 22 kW	* e-tankstellen-finder.com		Cash EC card Card
19 Obere Stadt 84130 Dingolfing	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
Parkplatz Bräugasse 94094 Rothalmünster	CHAdeMO 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Parkplatz Donaugasse 94315 Straubing	CCS 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion

Address	Plugs	Locate	Book	Pay
	Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW			
33 Passauer Str 94081 Fürstenzell	Type 2 11 kW EU Schuko 3 kW	* de.chargemap.com		Free
Passauer Str. 894078 Freyung	CHAdEMO 50 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
3 Passauer Straße 394161 Ruderting	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
3 Passauer Straße 94491 Hengersberg	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
43 Passauer Straße 94127 Neuburg am Inn	Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
44 Passauer Straße 4494121 Salzweg	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
1 Passauerstraße 94330 Aiterhofen	Type 2 22 kW Type 2 22 kW Tesla Supercharger 22 kW	* de.chargemap.com		Free for guests
14 Pfarrkirchener Str. 84307 Eggenfelden	CEE 5polig 11 kW CEE 3polig 22 kW Type 2 22 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	E-WALD Plugsurfing New Motion
Pfarrstraße 94051 Hauzenberg	Type 2 7 kW Type 2 7 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Parkplatz Kurpark 94551 Lalling	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
1 Pledlstraße 94577 Winzer	Type 2 22 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Pointenstraße 1294209 Regen	Type 2 22 kW Type 2 22 kW	* e-tankstellen-finder.com		Cash
4 Pointwiese 494256 Drachselsried	EU Schuko 3 kW EU Schuko 3 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
16 Poschetsrieder Straße 1694209 Regen Landratsamt	Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
10 Rathausstraße 94072 Bad Füssing	Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion

Address	Plugs	Locate	Book	Pay
Rathausstraße 294133 Röhrenbach	CHAdEMO 25 kW CCS 25 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
5 Rathausstraße 594244 Geiersthal	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
1 Regensburger Str. 3794036 Passau	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
14 Ringmauerstraße 1494265 Waldkirchen	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Ruselhochstrass 1994469 Deggendorf /Rusel	CEE 5polig 11 kW CEE 3polig 3,7 kW	* e-tankstellen-finder.com		Free
6 Seewiesen (Parkplatz neben Schule)94486 Osterhofen	CHAdEMO 50 kW CCS 50 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
2 Schulgasse 2-894209 Regen	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
4 Schulstraße 494374 Schwarzbach	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
4 Schulgasse 94579 Zenting	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
Schulstraße 194262 Kollnburg	CEE 3polig 3,7 kW	* e-tankstellen-finder.com		Free
Schulstraße 194353 Haibach	Type 2 22 kW Type 2 22 kW	* e-tankstellen-finder.com		Cash
4 Schulstraße 494548 Innernzell	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
4 Schulweg 494136 Thyrnau	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
4 Stadtgraben 94405 Landau	Type 2 22 kW Type 2 22 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
Stadtplatz 1394486 Osterhofen	CEE 3polig 3,7 kW	* e-tankstellen-finder.com		Free
4 Stadtplatz 94333 Geiselhöring	CEE 3polig 3,7 kW Wohnwagen 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
15 Sulzbachstraße 94501 Aldersbach	Type 2 11 kW CEE 3 3kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free

Address	Plugs	Locate	Book	Pay
1 Technologicampus 694244 Teisnach	CHAdEMO 40 kW CCS 50 kW EU Schuko 3,7 kW EU Schuko 3,7 kW EU Schuko 3,7 kW EU Schuko 3,7 kW EU Schuko 3,7 kW EU Schuko 3,7 kW EU Schuko 3,7 kW EU Schuko 3,7 kW EU Schuko 3,7 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com	Not Possible	Cash E-WALD New Motion
5 Torbogen 84066 Mallersdorf-Pfaffenberg	Type 2 22 kW CHAdEMO 20 kW Type 2 22 kW Type 2 22 kW EU Schuko 2 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
18 Ulrichsberger Straße 94469 Deggendorf	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
3 Unterer Markt 394157 Perlesreut	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
9 Vilshofener Straße 94538 Fürstenstein	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
Wolfstein 94078 Freyung	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash E-WALD Plugsurfing New Motion
Zwieslerwaldhaus 294227 Lindberg	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Cash E-WALD Plugsurfing New Motion
12 Riedelsbach 94089 Neureichenau	EU Schuko 3 kW EU Schuko 3 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
1 Römerplatz 94032 Passau	Type 2 22 kW	* de.chargemap.com	Not Possible	Free
4 Nikolastraße Passau	Type 2 11 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Cash - 1 EUR per 90 minutes
5 Obere Donaulände 94032 Passau	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		Free
1 Meraner Str. 94032 Passau	CHAdEMO 50 kW Type 1 3 kW Type 1 3 kW Type 2 43 kW Type 3C 44 kW	* de.chargemap.com		Free
33 Regensburger Straße 94036 Passau	CHAdEMO 22 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
37 Regensburger Straße 94036 Passau	CCS 50 kW CHAdEMO 50 kW Type 2 43 kW	* de.chargemap.com	Not Possible	Free
19 Außernbrünst 94133	Wohnwagen 3 kW	* de.chargemap.com		Free

Address	Plugs	Locate	Book	Pay
Röhrnbach	Wohnwagen 3 kW 22 kW Type 2 22 kW			
Bahnhofplatz 94481 Grafenau	Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
2 W.-Sedlbauer Straße 94481 Grafenau	Type 2 22 kW	* de.chargemap.com		Free
Parkplatz Ortszentrum 94566 St Oswald Riedelhütte	Type 2 3 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	E-WALD Plugsurfing New Motion
11A Böhmerwaldstraße 94518 Spiegelau	11 kW Wohnwagen 3 kW Wohnwagen 3 kW	* de.chargemap.com		
22 Waldhausstraße 94227 Lindberg	EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 11 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com	Not Possible	E-WALD Plugsurfing New Motion
Talstation Bayerisch Eisenstein	Type 2 22 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
5 Hofbauerstraße 94209 Regen	Type 2 3 kW	* de.chargemap.com	Not Possible	New Motion Ladenetz Karte
1 Eck 94255 Böbrach	EU Schuko 3 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
27 Kalkenriedler Straße 94244 Teisnach	Type 2 22 kW Type 2 22 kW Type 2 22 kW Type 2 22 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
Parkplatz 94244 Geiersthal	CHAdeMO 20 kW Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
6 Rathausstraße 94379 Sankt englmar	Type 1 3 kW	* de.chargemap.com	Not Possible	Free
6A Bogener Straße 94362 Neukirchen	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	E-WALD Plugsurfing New Motion
1 Berginger Straße 94530 Auerbach	Type 2 11 kW Type 2 11 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
A3 Hunderdorf 94335	CHAdeMO 50 kW CCS 50 kW Type 2 43 kW	* de.chargemap.com		Free
Aiterhofener Straße 215 Straubing	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		ChargeMap Pass
127 Landshuter Straße 94315 Straubing	Type 2 3 kW	* de.chargemap.com		ChargeMap Pass



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Address	Plugs	Locate	Book	Pay
3 Obere-Thor-Platz 94315 Straubing	Type 2 11 kW Type 2 11 kW	* de.chargemap.com		Free
59 Am Hagen 94315 Straubing	EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
1 Theresienplatz 94315 Straubing	EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
40 Charmer Straße 94315 Straubing	Type 2 11 kW Type 2 11 kW	* de.chargemap.com		Free
16 Dingolfinger Straße 94333 Geiselhöring	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
19 Bayerwaldstraße 84066 Mallersdorf- Pfaffenberg	Type 2 3 kW	* de.chargemap.com		Free
11 Bahnhofstraße 84069 Schierling	Type 2 22 kW Type 2 22 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
15 Hauptstraße 84069 Schierling	Type 2 22 kW EU Schuko 3 kW	* de.chargemap.com		Free
2 Bahnhofstraße 84085 Langquaid	Type 2 11 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
3 Schäfflerstraße 93309 Kelheim	EU Schuko 3 kW EU Schuko 3 kW Industrieller 22 kW Industrieller 22 kW	* de.chargemap.com	Not Possible	Free
15 Hallstraße 93309 Kelheim	Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
3 Donaupark 93309 Kelheim	CEE 3 3 kW CEE 3 3 kW CEE 3 3 kW	* de.chargemap.com	Not Possible	Free
14 Prunner Hauptstraße 93339 Riedenburg	CHAdEMO 50 kW	* de.chargemap.com		Free
35 Heiligenstädter Straße 93333 Neustadt	EU Schuko 2 kW EU Schuko 2 kW EU Schuko 2 kW	* de.chargemap.com		Free
19 Max-Bronold-Straße 93326 Abensberg	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
14 Straßäcker 84048 Mainburg	EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
1 Neufahrner Straße 84056 Rottenburg	Type 2 11 kW Type 2 11 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free City-charge by E.ON.dk E.ON
7 Am Rathaus 84095 Furth	Industrielle 11 kW Industrielle 11 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
15 Veldener Straße 15 84036 Landshut	Mennekes Type 2 22 kW Mennekes Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
5 Straubinger Straße 84030 Landshut	Type 2 3 kW	* de.chargemap.com		Ladenetz Plugsurfing New Motion
29 Meisenstraße 84030	CCS 50 kW	* de.chargemap.com	Not Possible	ChargeNow

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Address	Plugs	Locate	Book	Pay
Ergolding	Type 2 7 kW Type 2 7 kW Type 2 7 kW Type 2 7 kW Type 2 7 kW Type 2 7 kW Type 2 7 kW Type 2 7 kW CCS 50 kW			
22 Schindlerstraße 84030 Ergolding	EU Schuko 3 kW	* de.chargemap.com		Free
1 Industriestraße 84030 Ergolding	CHAdEMO 20 kW CCS 20 kW	* de.chargemap.com		Free
33 Regensburger Straße 84051 Essenbach	CHAdEMO 50 kW CCS 50 kW	* de.chargemap.com		E-WALD Plugsurfing New Motion
Fäberanger 84137 Vilsbiburg	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
1 Lebzeltergäßchen 84137 Vilsbiburg	Type 2 22 kW Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
53 Baron-Riederer- Straße 84337 Schönau	Type 2 22 kW Type 2 22 kW	* de.chargemap.com	Not Possible	Free
51 Landshuter Straße 84307 Eggenfelden	Type 2 11 kW	* de.chargemap.com	Not Possible	Free
3 Stadtplatz 84307 Eggenfelden	Type 2 22 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Not Possible	Free
3 Linedstraße 84332 Hebertsfelden	CEE 5 16 A EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com	Possible	Free
32 Max-Breiherr-Straße 84347 Pfarrkirchen	Type 2 11 kW Type 2 11 kW EU Schuko 3 kW EU Schuko 3 kW	* de.chargemap.com		Free
19 Bahnhof Platz 84347 Pfarrkirchen	Type 2 11 kW EU Schuko 3 kW	* de.chargemap.com		Free with Scheckkarte or RFID
13 Bayernwerkstraße 84359 Simbach am Inn	Type 2 11 kW Type 2 11 kW Type 2 11 kW Type 2 11 kW	* de.chargemap.com		Free
6-8 Rathausstraße 94072 Bad Füssing	EU Schuko 2 kW EU Schuko 2 kW EU Schuko 2 kW	* de.chargemap.com	Not Possible	Free
2 Am Kurwald 94086 Bad Griesbach im Rottal	EU Schuko 3 kW	* de.chargemap.com		Free
10A Vorderhainberg Ortenburg	EU Schuko 3 kW	* de.chargemap.com		Free
7 Hösamer Feld 94474 Vilshofen an der Donau	CHAdEMO 550 kW CCS 50 kW Type 2 43 kW	* de.chargemap.com	Not Possible	Free
191/6 Edlham 94544 Hofkirchen	Type 2 22 kW	* de.chargemap.com		Free
Sandnerhofweg 94469 Deggendorf	Type 2 22 kW Type 23 11 kW	* de.chargemap.com		ChargeMap Pass

Table 2 – Locate, book, and pay in Lower Bavaria



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Links

Southern Bohemia	Lower Bavaria
Google Maps https://www.google.com/maps/d/u/0/viewer?mid=1KYfZCxqw3Yei4TUz7gKFKowAlsc&hl=cs&ll=49.32450448698723%2C14.89761019071193&z=9	E-Tankstellen-Finder.com https://e-tankstellen-finder.com/at/de/catalog/index/de/Bayern/Niederbayern/0
EV Mapa www.evmapa.cz	De.ChargeMap.com https://de.chargemap.com/map Registration necessary
Elektrina.cz https://www.elektrina.cz/elektromobil/dobijeci-stanice-pro-elektromobily	Elektrotankstellen-Europa.com http://www.elektrotankstellen-europa.com/
Hybrid.cz http://www.hybrid.cz/mapa-stanic/?t=ele	

Applications

At least a dozen of mobile applications offering various services can be found on the market – mostly for electric cars rather than for bikes and other vehicles. Whereas web sites locate charging stations for various electric vehicles, mobile apps focus on electric cars.

App	Locate	Plan	Book	Pay	Authorize	Register	Region
eCharging	X					N	SB
Polyfazer	X			X		N	SB
PlugShare	X					N	SB/LB
Nextcharge	X	X				N	SB/LB
ChargeJuice	X					N	LB
LEMnet	X					N	LB
EE-Mobil	X				X	N	LB
e-mobility	X	X	X	X	X	N	LB
Smart Tanken	X	X				N	LB
Muvon	X			X	X	N	LB

Table 3 – App functions and availability

As can be seen from the table, no application is available in both regions offering a full service. The *e-mobility* app, which is available only in Germany, comes the closest. Two apps, *PlugShare* and *Nextcharge*, are available in both regions.

There are also other apps on the market that either do not display Czech stations (ChargePoint, EV ChargeHub, Greenlots, ChargeBud, SemaConnect, CarStations), do not



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display Bavarian stations (eCharging, Polyfazer, WattStation, CarStations, ChargeBud, SemaConnect, EV Charge, Greenlots, eNavigator), are not free (PlugFinder), or do not work at all (UMap, WattStation, E-Tankstellen, Ladefoxx).

Conclusion

Currently, there is not a way to efficiently manage EV charging on the cross-border scale. Web sites do allow to find a charging station, but they are not reliable on the Czech side, and neither side has access to a site that would allow for a complete charging management, from finding a station to paying.

Mobile apps do not offer much more. Even though there is a handful of them on the market, they are not interconnected or compatible, so it is not possible to ensure easy EV charging. All apps help to find a station, but only a few can plan a route or pay for the charging.

Another catch is the relatively large number of apps that are not suitable for the region but still are offered by the store.

As can be seen, the ICT charging infrastructure is still in diapers and though there are efforts, such as the e-mobility on the German side or the EV charging cards, none of the functions is available on the cross-border level.

Recommendations

- Research the *e-mobility* app as it offers a full solution
- Research the apps *PlugShare* and *Nextcharge* that function on both sides of the border
- Create an app with the following functionalities
 - Locate
 - Filter by plug
 - Filter by kW
 - Plan a route
 - Book
 - Authorize
 - Pay
 - Compatible with current payment gateways and EV cards
 - Not necessary to register
 - History
- Promote the full mobile app solution



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