



欧州活動報告2021 | EU activity report 2021

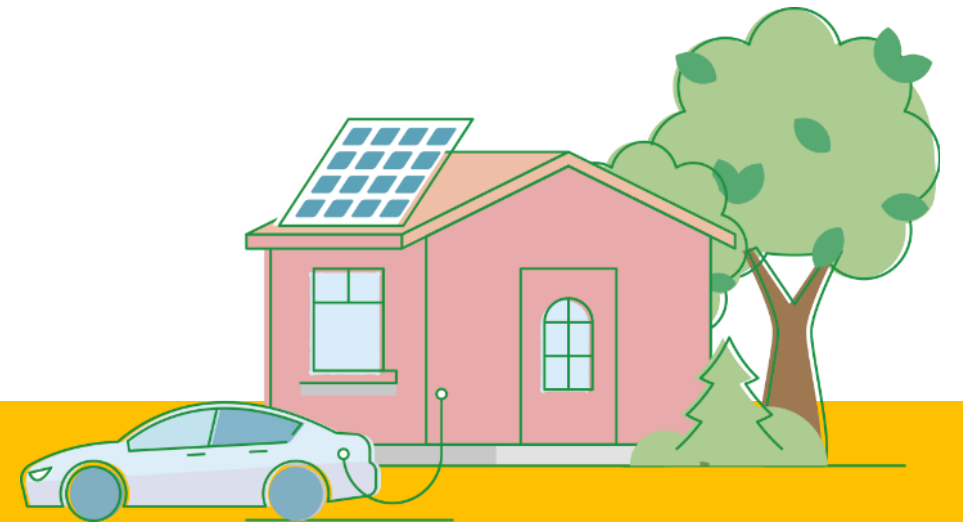
3 June 2022

チャデモ協議会 欧州事務局 | CHAdemo EU

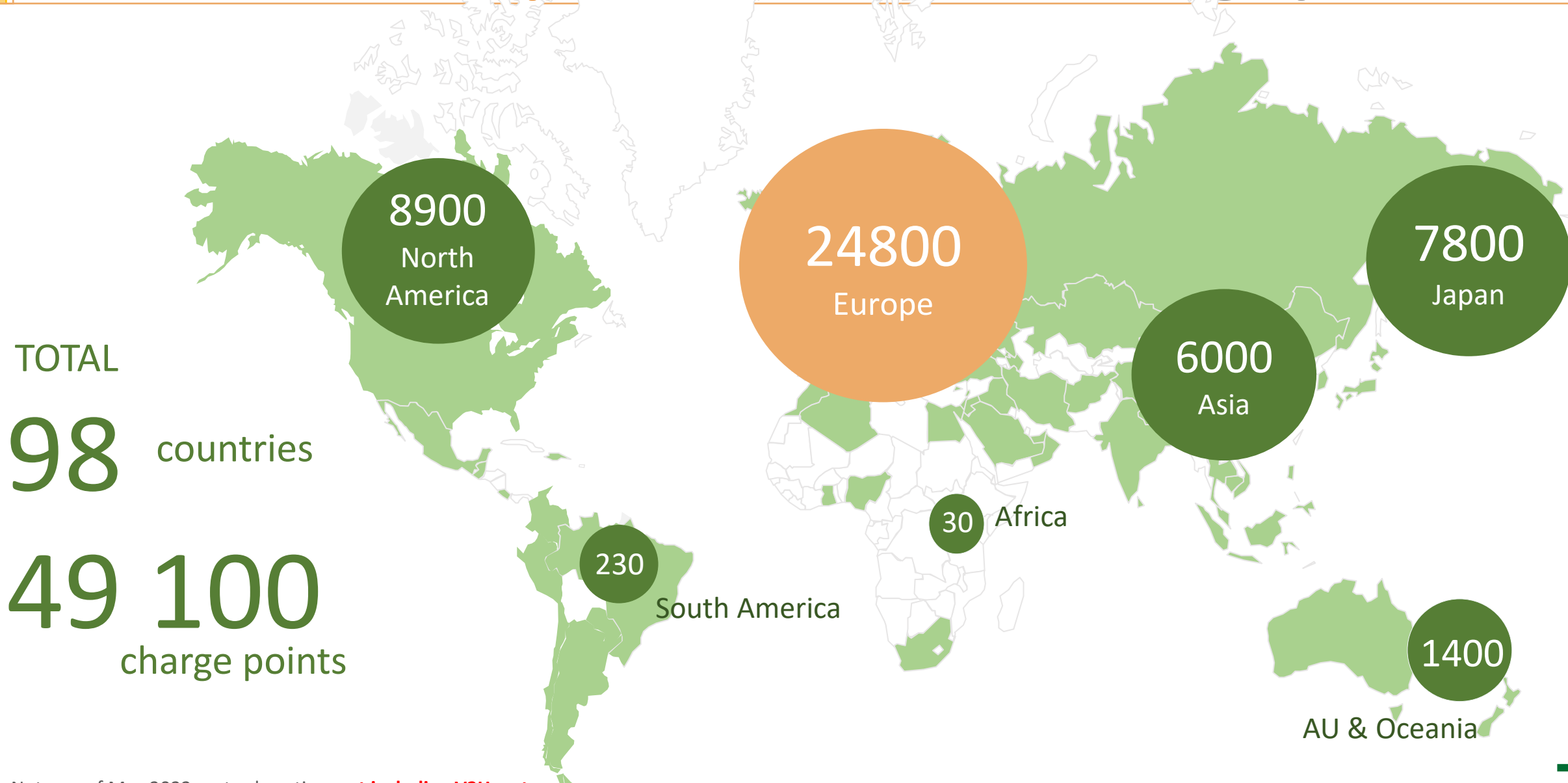


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- 欧州法制トレンド | EU legislation and CHAdeMO
- 充電ビジネストピックス | EU business news
- 欧州州事務局の活動 | 2021 EU activities



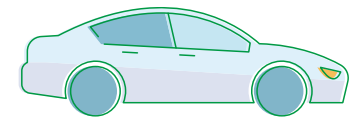
世界チャデモ基数 | Global CHAdeMO charge points



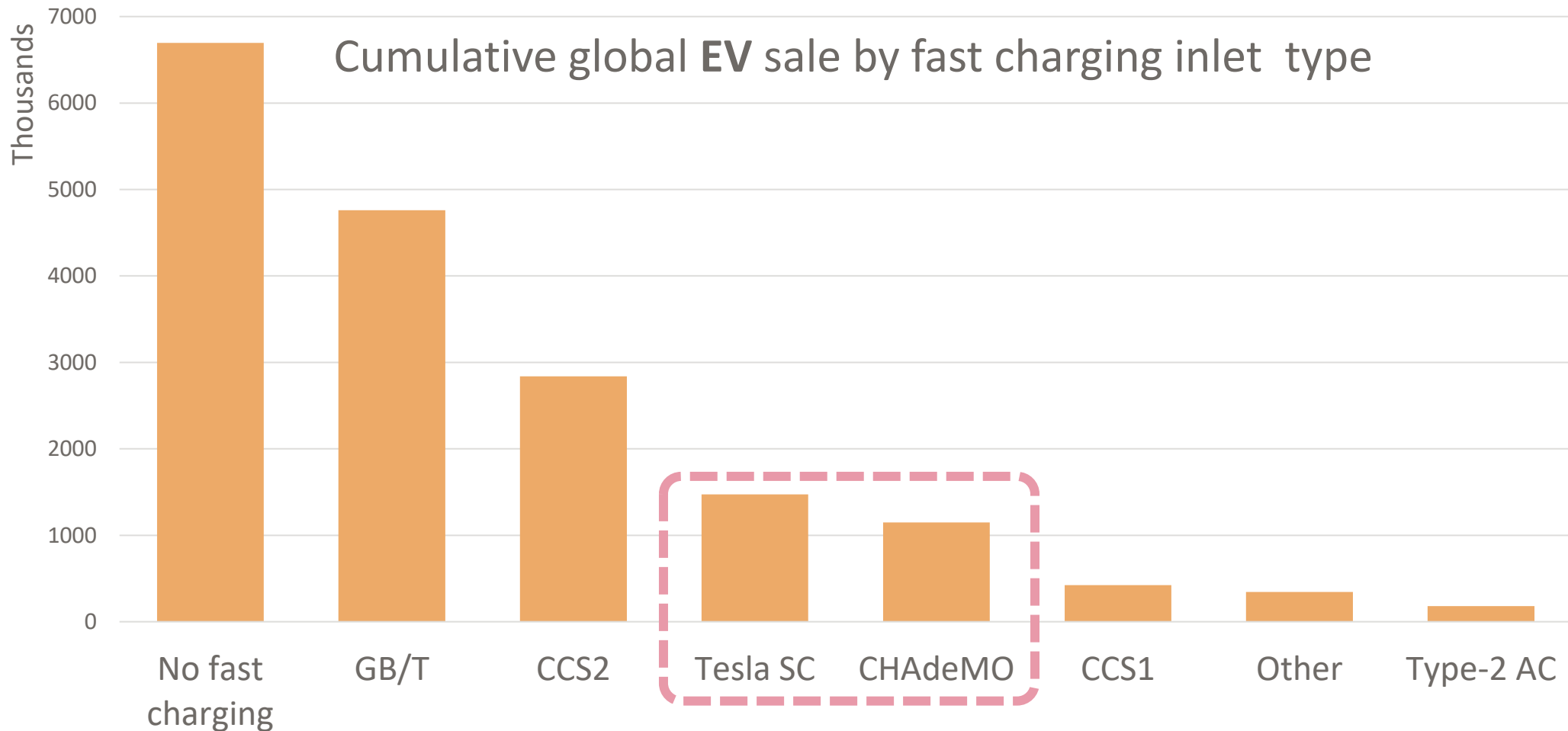
Note: as of May 2022; not exhaustive; **not including V2H systems**

Source: ChargeMap, PlugShare, EAFO, Zap-Map, NOBIL, Girève, GoingElectric, ChargeHub

チャデモ充電器は世界のEV260万台に対応可能



CHAdeMO chargers serving 2.6M EVs in the world



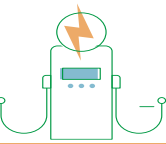
*CCS1 and CCS2 have different inlet shapes; exact breakdown is unknown to us, but here we assume the Americas = CCS1, and Europe, Africa & ME = CCS2, prorating the Asia Pacific sale (75k) between the two

**Other includes unspecified, unknown, optional, BYD

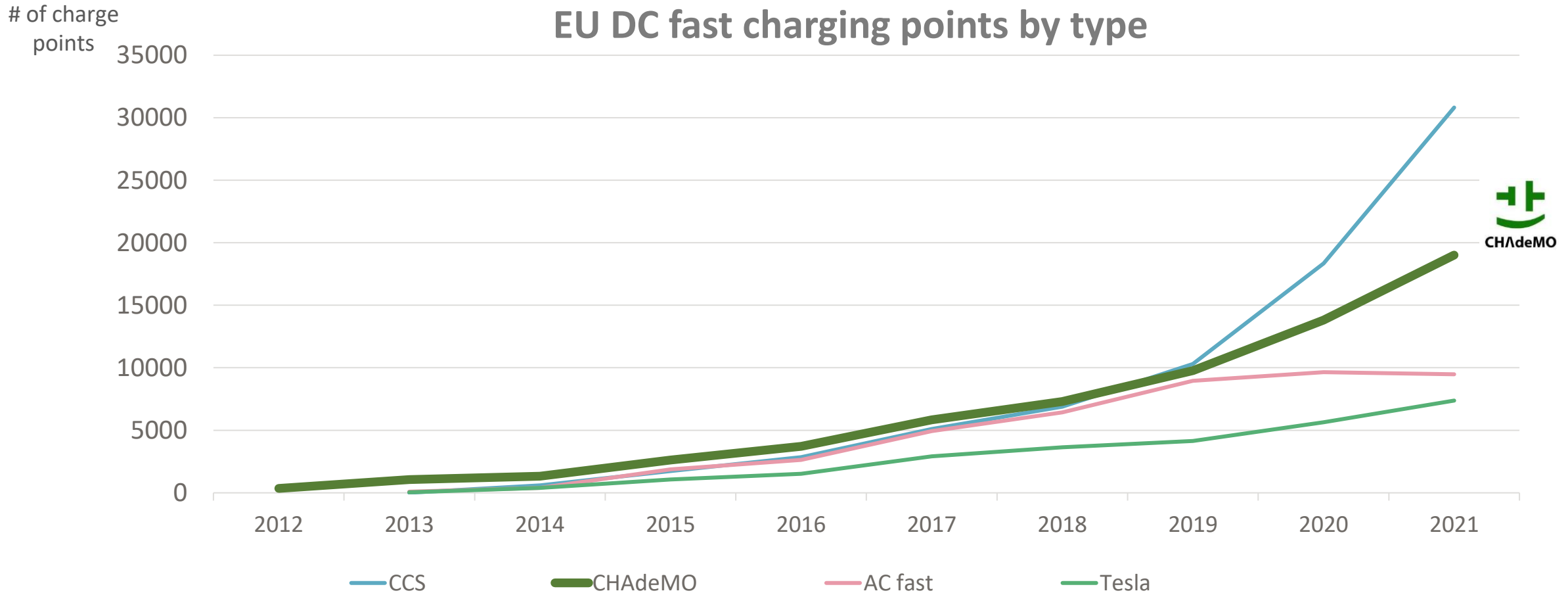


CHAdeMO

チャデモプラグへの投資は減速傾向



Investments in high-power and other chargers with CHAdeMO plugs began to lag around 2019

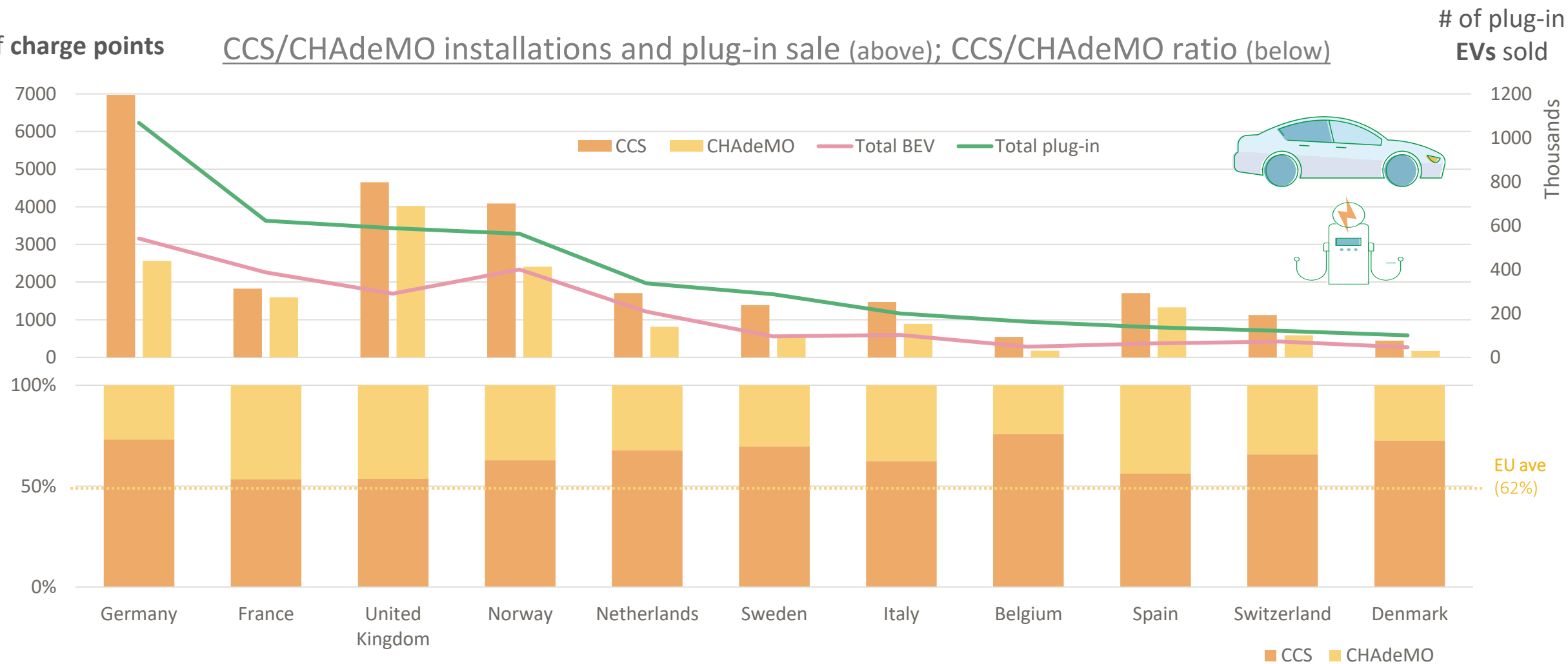


Source: European Alternative Fuels Observatory (EAFO.org) (data as of Dec 2021), EU + UK + EFTA + Turkey



欧州一部市場はCCSに傾斜投資

Top EU EV markets such as Germany, Norway, Netherlands and Sweden install more CCS



Source: European Alternative Fuels Observatory (EAFO.org) (data as of Sept 2021), EU + UK + EFTA + Turkey

Note: These 11 markets account for 90% of all EV sale in Europe

欧州法制トレンドキーワード | EU legislation key words

環境目標達成には充電器が必要
Climate goals need lots of chargers

- パリ協定炭素中立目標 Climate neutral EU by 2050
- エンジン車販売禁止を提案 No more ICE car by 2035
- 充電器300万台・車3千万台 30M ZEV, 3M charge points by 2030

充電器はスマート充電対応に
Make chargers smart-ready

大型車両の充電設備を急げ
Prepare for HDV

最低充電器規格要件を追加へ
More standards to be made

- **英国**
新規充電器はスマート充電対応
UK smart charge points regulation 2021
- **欧州連合**
全普通充電器はスマート充電対応
EU AFIR・EPBD・REDII
'all public normal charge points to be smart ready'

- **欧州連合**
大型車両向けの充電設備に野心的な目標値を提案
HDV charging infra mandates proposed
- **一部加盟国からのプッシュバック**
'Premature' for some MS

- **EN規格の策定依頼**
 - **大型車両充電規格**
HDV supply connector standard
 - **V2G通信インターフェース**
Vehicle-to-grid communication interface
 - **DC普通充電規格?**
DC normal power charging standard?

部品供給問題による納期の遅れ
But... can we deliver? Semi-conductor and supply chain issues perturb businesses

欧州チャデモのアプローチ | CHAdeMO approach to EU

ユーザ保護の訴求 Consumer protection

問題 Problems:

- EV・充電器シェアの低減
Declining shares of EV/chargers in EU
- ユーザ利便性低下によるチャデモ離れの恐れ
Consumers' convenience at stake, risk of a vicious cycle penalising users

アプローチ Approach:

- 消費者保護の精神からマルチ充電器を推奨
In the spirit of 'just transition' and aligning with the 'multistandard' approach
- マルチ充電器の最低限配備を依頼
Minimum deployment of multistandard chargers per station

フランス国内法のケース Case study: French decree



- CHAdeMO実装義務解除の国内法改正
Decree IRVE revision no longer required
CHAdeMO for public high-power charging
- チャデモのアクション Actions :
 - 共同文書の執筆
Stakeholder joint letter
 - エコロジー移行省との面会
Meeting with the Ministry
- 確認事項 Confirmation :
 - 補助金申請には引き続きチャデモプラグが必要
CHAdeMO remains eligible for financial support programme
 - 高速道路の充電ステーションの入札要件にもチャデモ継続
CHAdeMO remains required on highway charge point procurements

EU諮問機関専門委員活動

持続可能な交通フォーラム (STF)

- 通信におけるガバナンスと標準化に関するサブグループ専門委員
An expert member of the sub-group on governance and standards for communication exchange of the STF
- 通信規格とPKIデザインに関する討議に参加
Discussions around PKI objectives, added value, governance and implementation scheme

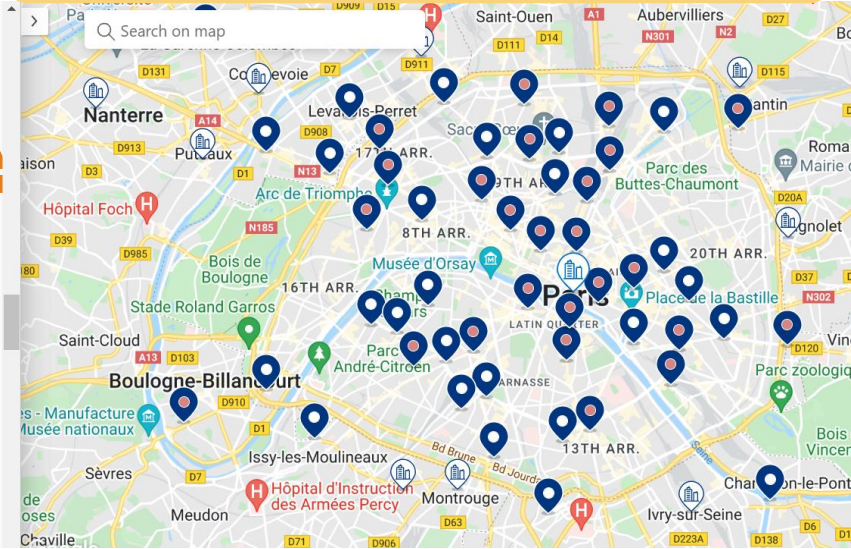
アプローチ Approach:

- ISO15118-20のWi-Fi通信およびSAE Wi-Fi事業の同時検討・評価
Two-pronged approach between 15118-20 over Wi-Fi and the SAE Wi-Fi project

充電ビジネストピックス | As EV charging expands..

ホテル検索も「EV充電器あり」
EV charging as a hotel search filter

Facilities	
<input type="checkbox"/>	Non-smoking rooms 107
<input type="checkbox"/>	Free WiFi 104
<input type="checkbox"/>	Parking 107
<input checked="" type="checkbox"/>	Electric vehicle charging station 110
<input type="checkbox"/>	24-hour front desk 97
<input type="checkbox"/>	Pets allowed 77
<input type="checkbox"/>	Room service 51
<input type="checkbox"/>	Airport shuttle 28
<input type="checkbox"/>	Swimming pool 14
<input type="checkbox"/>	Restaurant 50
<input type="checkbox"/>	Facilities for disabled guests 74
<input type="checkbox"/>	Family rooms 94
<input type="checkbox"/>	Fitness centre 34
<input type="checkbox"/>	Spa and wellness centre 8



充電中に何しよう
Stations with lounge, food, shopping

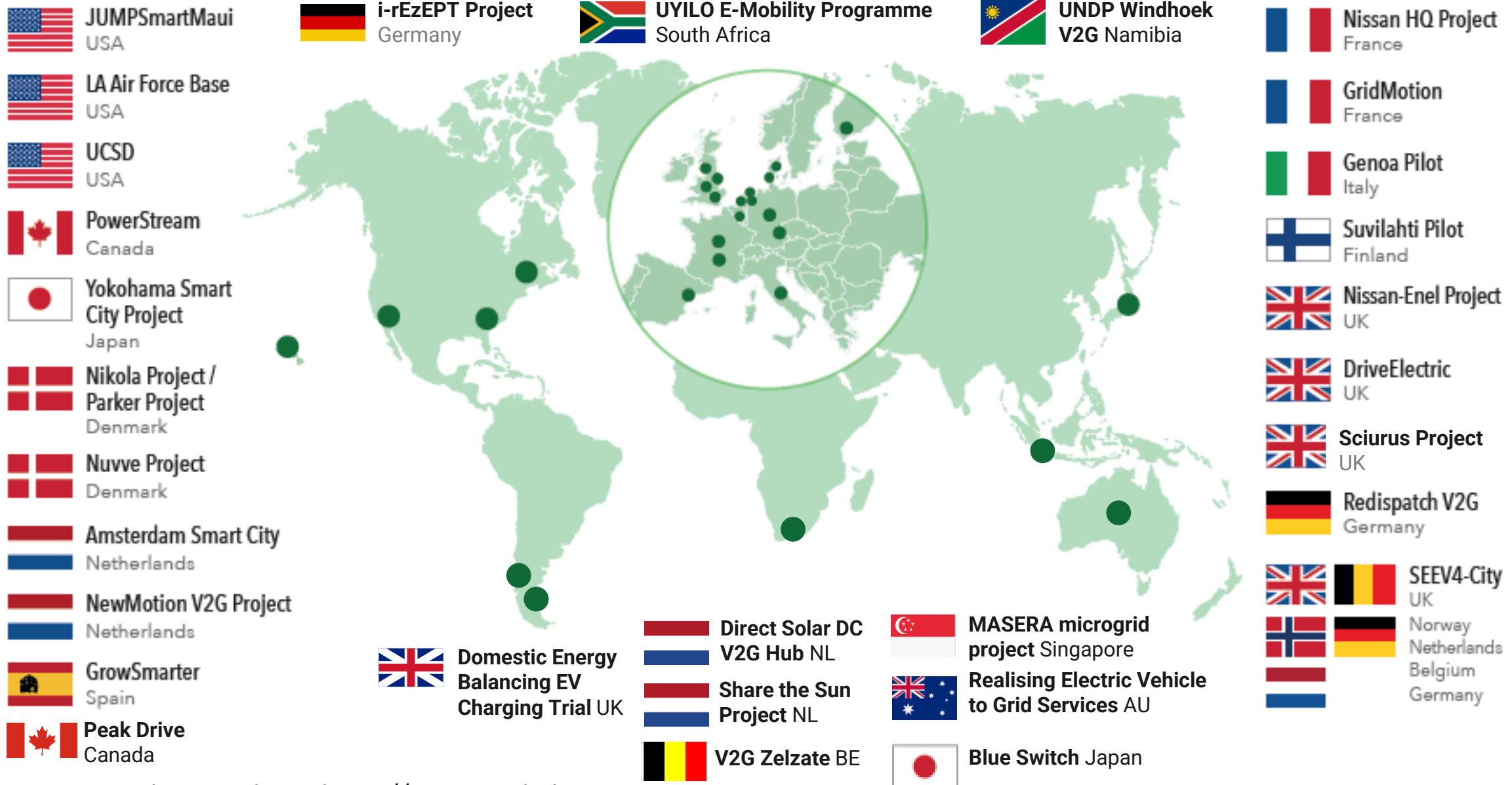


EV向け変動型電気料金でお得
Smart charge with dynamic tariff



Photos: gridserve.com; shell.co.uk; octopus energy; booking.com;

V2G projects & commercial applications



Source: CHAdeMO website, <https://www.v2g-hub.com>



CHAdeMO

チャデモV2GがフランスRTE認証を獲得 CHAdeMO V2G certified for FCR in France

フランスの送電系統運用事業者 RTEは、チャデモ会員企業ABB, 日産, Nuvveの参加する事業による周波数制御予備力提供を初めて認証。(2022年2月)

RTE, France's transmission system operator (TSO), has certified the participation of EV batteries from company fleets for the first time, recognising the technological aptitude of CHAdeMO-based V2G, provided by CHAdeMO members ABB, Nissan, Nuvve and implemented by Dreev, in their real-time balancing of supply and demand (FCR). (Feb 2022)



アジアでチャデモV2L災害対策発動 CHAdeMO for resiliency in the Philippines

日産とニチコンは、フィリピンの台風被災地でEVとV2LによるチャデモV2X（非常電源供給）を実践(2021年12月)

Nissan and Nichicon Power Mover demonstrated the power of EV as mobile battery, providing V2L for the affected areas of Typhoon Rai (Odette) in Cebu, Philippines (Dec 2021)



2021年度活動：会議・展示/2021 Event & trade fair

- EV充電インフラ会議（プラハ） Charging infra for EV conference @Prague/Online (06/10)
- EV充電インフラ会議（ベルリン） EV charging infra conference @ Berlin (11/08)
- COP26ジャパンパビリオン（グラスゴー） COP26 Japan Pavilion's seminar@Glasgow (11/10)
- eMove 会議・展示（ミュンヘン） eMove conference & trade fair @Munich (11/16-18)



2021年度活動 : V2G Webinar

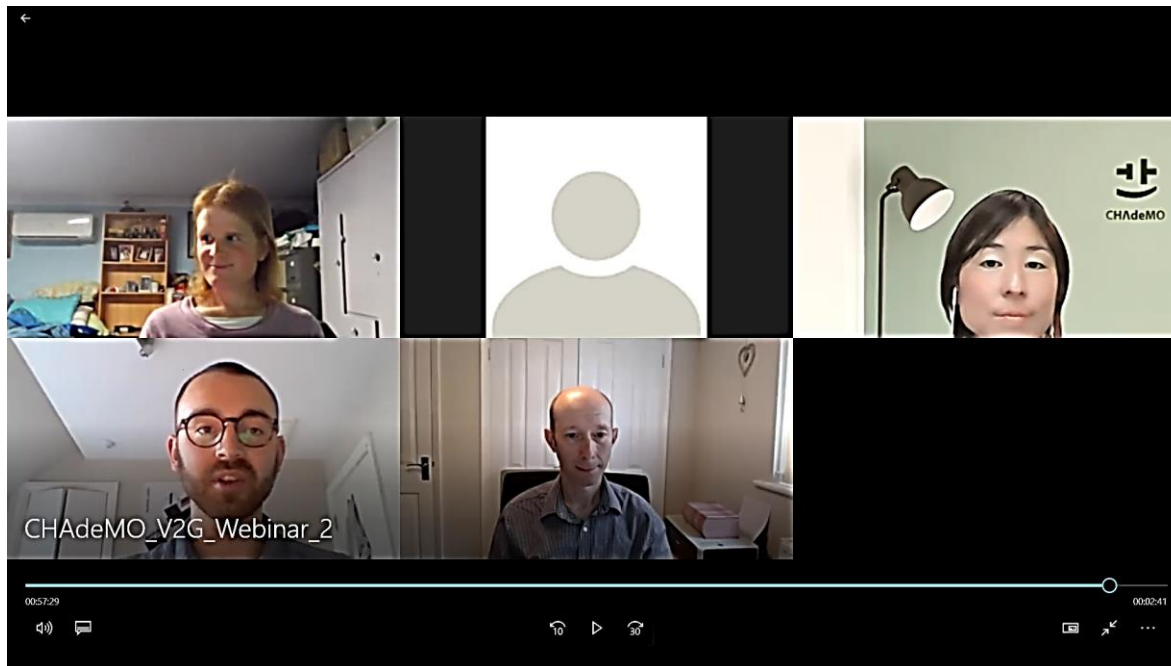
- 5回開催
- 平均100人聴講
- ビジネスモデル、AC・DC、V2Gデモ検証等のテーマ

- 5 times
- Average 100 participants
- Topics:
business models, AC and DC, V2G demo projects, etc.

スピーカーご希望の方は是非ご連絡ください！

If you wish to speak at a future CHAdeMO webinar, contact us

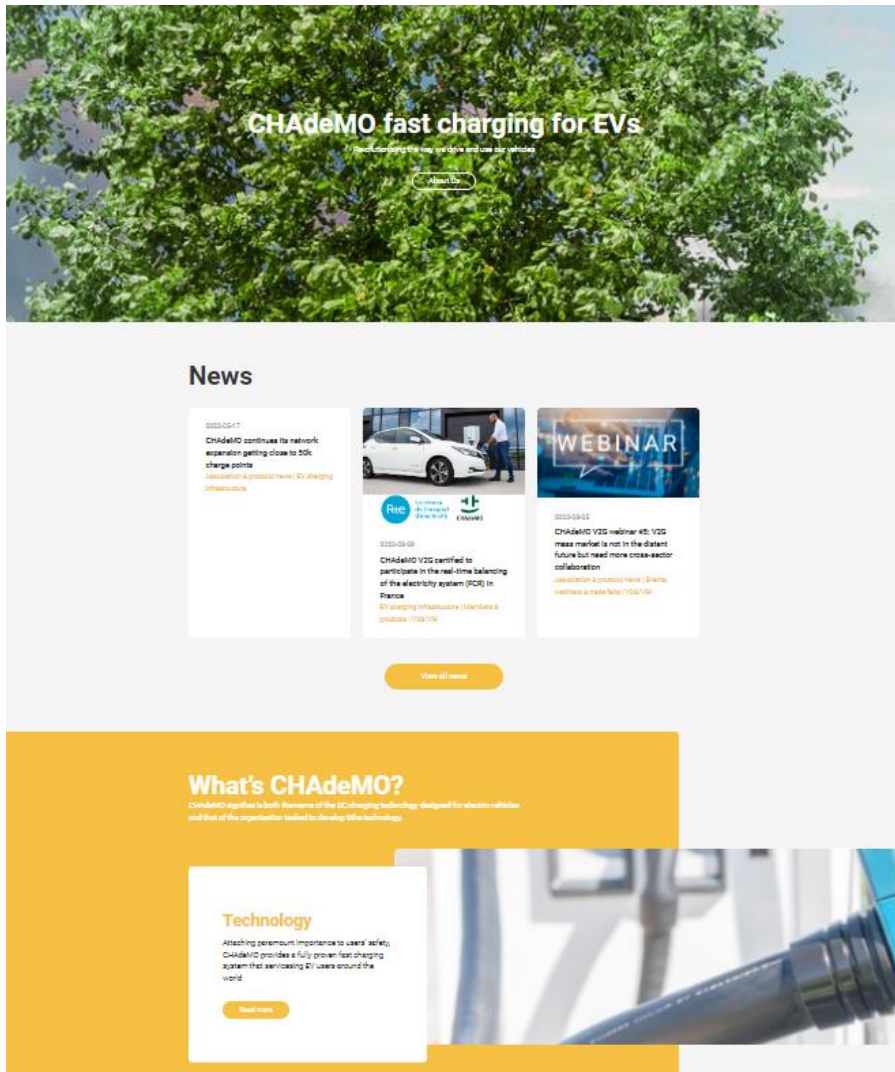
info@chademo.eu



<https://www.chademo.com/about-us/what-we-do/webinar>



2021年度活動：広報物刷新 / PR material renewal



NEWSLETTER #2/2022 April 2022

Dear Test,

Hello and welcome to the CHAdeMO newsletter. With the arrival of Spring, our event schedule is filling up quickly and we are happy to be speak at various occasions.

The CHAdeMO family is expanding: the protocol for two-wheelers (e-PTWs) has been released. Two and three wheelers are a popular means of transport in many places in the world and we hope this shall help advance the electrification of transport and carbon neutrality.

Your CHAdeMO Team

Association's news:

- CHAdeMO Association to issue the two-wheelers (e-PTWs) charging protocol
- CHAdeMO V2G webinar #5: V2G mass market needs more cross-sector collaboration

Useful information:

- CHAdeMO V2G certified to participate in the real-time balancing of the electricity system (FCR) in France
- V2G Funding opportunity by Innovate UK
- US NFPA seeks public comment on EVSE installation requirements

Events:

- CHAdeMO at Spring events

サイト&ブローシャ&ニュースレター
Website & brochure & newsletter

Thank you

For more information:
info@chademo.eu

