# Comment 1 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Ralph
Last Name: Troute
Email Address: ralphwtroute@icloud.com
Affiliation:

Subject: Smart Phone payment
Comment:

Table 6.0: smart phones with and without wireless payment capabilities. The smart phone app for wireless payments can be installed from the "app store". Once installed the owner and operator of the smart need only setup the app to enable wireless smart phone payments for EV Charging fees.

The smart phone payment should be the ONLY payment system that any EVSE or EVSP should process. A credit card reader and NFI equipment should NOT be required for public charging as your study and report identified as problems and concerns.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2022-02-07 13:10:46

No Duplicates.

# Comment 2 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Charlie
Last Name: Yang
Email Address: charlie.yang@toyota.com
Affiliation:

Subject: 500V/1000V DC Charging Station
Comment:

```
Will there be any information on determining which DC fast charging
station is 500V or 1000V?
```

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2022-02-15 10:07:42

No Duplicates.

# Comment 3 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Katharine
Last Name: Hermann
Email Address: Kh2020@sonic.net
Affiliation:

Subject: EV Owner, and user of public charging stations
Comment:

We have personally made the happy transition to our all electric Kia, which works well with our mostly local travel and utilizing our rooftop solar system.

However, to make possible the transition to non-fossil power on large scale, it is essential that public high-speed charging opportunities for electric vehicles be improved and expanded.  For my periodic travel, I am obviously limited by distance due to my car's charge level, but time is also a major factor since re-charging time is part of the travel duration.

On a recent trip between SF and Santa Barbara, charge opportunities were barely adequate.  In at least one case where the online report of one (of 4) chargers being in repair, ALL 4 were actually unavailable... fortunately there was another charger not too far away.  But a similar event when the next charger is 50 miles away could have been a dangerous problem.

I realize that hi-speed chargers are being added, but I hope that more of them are in truly public territory, easily accessed from major roads, such as at all rest-stops or other safe public stopping places (picnic areas, parks) where there are safe opportunities for relaxing as the car is charged.

Thanks so much for pursing this,  Katharine Hermann

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2022-02-23 20:45:41

No Duplicates.

## Comment 4 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Matthew
Last Name: Chen
Email Address: matthew.chen@semaconnect.com
Affiliation: SemaConnect

Subject: SemaConnect Comments on EVSE Standards Technology Review
Comment:

```
Please find attached comments from SemaConnect on the February 2022
EVSE Standards Technology Review.

Sincerely,

Matthew E. Chen
Director, Government Policy & Programs
SemaConnect
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/5-evsesd-comment-tr-ws-VzQHYAR3WWgBWFM2.pdf

Original File Name: CARB EVSE Technical Review  - SemaConnect comments.pdf

Date and Time Comment Was Submitted: 2022-02-24 11:44:00

No Duplicates.

## Comment 5 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Alma
Last Name: Barreras
Email Address: alma@weidemangroup.com
Affiliation: Electrify America

Subject: Electrify America Comments
Comment:

```
Thank you for the opportunity to comment on the Electric Vehicle
Supply Equipment Standards (EVSE) Technology Review. Please find
our comments in the attachment.
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/6-evsesd-comment-tr-ws-Wj8CaFQwBTUGdAd1.pdf

Original File Name: Electrify Am Comments - EVSE Technology Review.pdf

Date and Time Comment Was Submitted: 2022-02-24 16:11:00

No Duplicates.

## Comment 6 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Lawrie
Last Name: Mott
Email Address: lawriemott@gmail.com
Affiliation: Cool the Earth

Subject: Comments on EVSE Standards Technology Review
Comment:

```
Please find attached Cool the Earth's comments on CARB's EVSE
Standards Technology Review.
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/7-evsesd-comment-tr-ws-AWJXPgBsVGoKaVM9.pdf

Original File Name: Comments on CARB EVSE Standards Technology Review.pdf

Date and Time Comment Was Submitted: 2022-02-24 17:36:52

No Duplicates.

# Comment 7 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Susannah
Last Name: Saunders
Email Address: s9saunders@gmail.com
Affiliation:

Subject: DC Fast Chargers Not Working As They Should
Comment:

When I travel or forget to charge at home I depend on the DC fast chargers and they are not in good shape. I struggle to get the port into my plug. Many times the Electrify America cable will not reach my Bolt plug because it is in front of the passenger car door. I have noticed people with the Ford Mach E struggling to make it work as well. I have to back in and sometimes even that doesn't work. I was down to 30 miles yesterday in Los Gatos and the EVgo charge card reader wasn't working so I couldn't use either charger. All of the brands seem to have trouble accepting my credit card payment so I have to use the app. EVgo app I couldn't get to download yesterday and you can imagine how scary it was to be down to 30 miles and have them not take my credit card. I spent 20 minutes struggling and had to abandon it. Luckily there was an Electrify America station nearby, but I had to use the app because it kept declining my credit card. I bought coffee 5 minutes later so it's not my credit card. It shouldn't be this hard. I also have to search for the stations using the plug share app to see if I'm close or not because there are NO SIGNS. I almost hit someone at a huge mall because I was searching for the charger. This is insane! Why are there no signs? Even when there are not credit card payment issues these chargers fail for no good reason. I don't know how people who don't have a home charger do it. We won't get to 100% EVs like this. These companies have to do better so all chargers accept credit cards, the chargers can work like they are supposed to and the cables reach all cars. Otherwise people will stick with gas and that's not how we keep the air clean and a planet temperature that's hospitable to living things. One more thing why are so many of these in the middle of nowhere? I would like them at rest stops on major highways and not in some offbeat location I wouldn't feel safe charging in at night. Thank you.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2022-02-24 17:36:47

No Duplicates.

# Comment 8 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: jt
Last Name: gould
Email Address: housesofboom@gmail.com
Affiliation:

Subject: EV charging on the road
Comment:

```
EVSE Standards Technology Review:

I believe that you can only fully understand the inadequacy of the
current system for public charging if you have an electric vehicle
and take a road trip. In my experience, the wireless
contact/payment system does not work at all with credit cards. The
credit cards, inserted via a chip, require a lot of fiddling and
seem to function about 30% of the time. Moreover, the charging
cables do not always reach, they are heavy, and the kiosks are
often defunct. . . once you can find them. There is only room for
improvement and accountability here, on all levels.
```

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2022-02-25 06:35:18

No Duplicates.

## Comment 9 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Gillian
Last Name: Gillett
Email Address: gillian.gillett@dot.ca.gov
Affiliation:

Subject: Cal-ITP Feedback on Electric Vehicle Supply Equipment Standards Technology Review
Comment:

```
The California Integrated Travel Project (Cal-ITP) is grateful for
the opportunity to provide feedback on the Electric Vehicle Supply
Equipment (EVSE) Standards Technology Review. Our feedback is
included in the letter attached.
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/10-evsesd-comment-tr-ws-UTJQNwBtUy0Abwdz.docx

Original File Name: Cal-ITP Comments_2022.02.25.docx

Date and Time Comment Was Submitted: 2022-02-25 14:37:02

No Duplicates.

# Comment 10 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: David
Last Name: Rempel
Email Address: dm.rempel@gmail.com
Affiliation: University of California at Berkeley

Subject: Accurate Data
Comment:

The Technology Review provides a glimpse into the experiences of EV drivers' barriers to charging at public EV charge stations. The apparent differences in findings between EV driver reports of barriers to charging and EVSP reports of a high-level of uptime may be real or may be due to survey differences and differences in definitions of terms.  The first step in addressing the apparent barriers identified by EV drivers is to define terms, such as reliability, up-time, and usability relative to EVSEs.  In addition, if the EVSPs do not make their detailed up-time and service status data publicly available, it is necessary for impartial third parties collect real data on the reliability, up-time, and usability of EVSEs. With the upcoming rapid roll out of an EV charge infrastructure throughout California, this type of data is critical to the development of useful guidelines and standards to build a resilient and well functioning infrastructure. A good EV driver experience with public EV charging is critical to the rapid adoption of EVs.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2022-02-27 08:28:34

No Duplicates.

# Comment 11 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Robin
Last Name: Moller
Email Address: robin@mollers.us
Affiliation: Marin/Sonoma EV Squad

Subject: EVSE Technology Review
Comment:

I am an EV driver and have run into problems when charging in public locations. Problems have included difficulty finding the charger itself (no universal signage system), power cords which didn't reach my vehicle, multi-port chargers unsupported by logical parking locations, charger not recognizing my credit card, difficulty seeing the charging screen, confusing instructions and non-functioning chargers. To ensure the transition of more drivers to EVs and a reduction in GHGs in this climate emergency, there must be a reliable and publicly accessible charging network that operates predictably, uniformly and seamlessly.

Attachment:

Original File Name:

Date and Time Comment Was Submitted: 2022-02-27 16:13:19

No Duplicates.

## Comment 12 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Kelsey
Last Name: Johnson
Email Address: kgjohnson@rivian.com
Affiliation:

Subject: Rivian Comments on EVSE Technology Review
Comment:

```
Thank you for the opportunity to comment on the EVSE Technology
Review. Please find Rivian's comments in the attachment.
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/13-evsesd-comment-tr-ws-B2RWMQFyU2JQCQdi.pdf

Original File Name: CARB EVSE Tech Report_Rivian.pdf

Date and Time Comment Was Submitted: 2022-02-28 09:55:52

No Duplicates.

# Comment 13 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Leela
Last Name: Rao
Email Address: leela.rao@polb.com
Affiliation: Port of Long Beach

Subject: Clarification of applicability to HD charging needed
Comment:

```
Please see the attached comment letter from the Port of Long Beach
on the EVSE Standards Technology Review.
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/14-evsesd-comment-tr-ws-VSUBaABtV2YLUgVg.pdf

Original File Name: POLB EVSE Comment Letter 20220224 (002).pdf

Date and Time Comment Was Submitted: 2022-02-28 13:14:17

No Duplicates.

## Comment 14 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Adam
Last Name: Mohabbat
Email Address: adam.mohabbat@evgo.com
Affiliation: EVgo

Subject: EVgo Comments on EVSE Technology Review
Comment:

```
Thank you for the opportunity to comment. Please find EVgo's
comments attached. If you have any questions or if we can be of
further resource, please do not hesitate to reach out.
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/15-evsesd-comment-tr-ws-B2JWJlI0Az8KUwRl.pdf

Original File Name: EVgo ARB EVSE Standards Comments 2.28.22.pdf

Date and Time Comment Was Submitted: 2022-02-28 13:38:11

No Duplicates.

# Comment 15 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Natalie
Last Name: Nax
Email Address: natalie@caleec.com
Affiliation:

Subject: EVCA Comments on the EVSE Technology Review
Comment:

The Electric Vehicle Charging Association (EVCA) is a not-for-profit organization comprised of leaders throughout the value chain of the electric vehicle (EV) charging industry to advance the goal of a clean transportation system in which the market forces of innovation, competition, and consumer choice drive the expeditious and efficient adoption of EVs and deployment of EV charging infrastructure.

EVCA thanks the California Air Resources Board (CARB) for the opportunity to comment on the Electric Vehicle Supply Equipment Technology Review (Technology Review). EVCA believes this analysis is essential to CARB administering and updating its Electric Vehicle Charging Station Open Access regulation. Given that the market is continually evolving in its development and use of payment technologies, it is critical for CARB to conduct the Technology Review at consistent intervals to ensure its regulation reflects technology and consumer use trends.

Upon initial review, EVCA recommends future Technology Reviews to address the following unanswered questions below. We believe this will better define the scope and extent of the problem CARB is trying to resolve with its regulation, thus enabling it to better refine its regulation as needed to increase consumer access to charging stations

How do varying payment technologies and associated equipment differ in their reliability, if at all? and how does that impact overall station reliability?
If there are issues in reliability with any payment technologies, what are the cost impacts, if any, with repairing them?
What percentage of Californians are unbanked and/or rely solely on pre-paid debit/credit cards?
What percentage of unbanked Californians are interested in purchasing an EV?
What other payment methods do unbanked Californians use?

Given that the Technology Review cited "inoperable stations" as a top issue reported by respondents, we believe a more in-depth analysis of the reliability of payment technologies is an important underlying consideration to this regulation. Furthermore, given that CARB is addressing payment access issues for unbanked Californians, we believe more data is needed, as noted with questions 3 and 4 above, to understand the extent of the problem. We encourage CARB to work with third party researchers, who can help design robust effective surveys and additional research methods to answer these questions.

The Technology Review also, after conducting an assessment of contactless payment penetration and use in the U.S., concluded it was not yet prevalent enough to justify amending the regulation to allow charging station companies to use that technology to comply with the regulation. We encourage CARB, in the next iteration of

the Technology Review, to specify a standard that contactless payment technology must meet to be considered widely accessible to unbanked Californians. Providing a clear standard gives industry certainty on a specific end goal CARB wants the market to work toward.

We look forward to continued collaboration on this topic. Thank you for your consideration.

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/17-evsesd-comment-tr-ws-UDVTIwZkADIFXAVm.pdf

Original File Name: EVCA CARB EVSE Tech Review Comment Letter 2_28_22 .pdf

Date and Time Comment Was Submitted: 2022-02-28 14:15:09

No Duplicates.

**Comment 16 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.**

First Name: Francesca
Last Name: Wahl
Email Address: fwahl@tesla.com
Affiliation: Tesla

Subject: Tesla Comments
Comment:

```
Please find attached Tesla's comments on the EVSE Standards
Technology Review.
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/18-evsesd-comment-tr-ws-ViJUN1clBDsHYFAP.pdf

Original File Name: Tesla Comments CARB Technology Review EVSE Standards 02_28_22_final.pdf

Date and Time Comment Was Submitted: 2022-02-28 15:32:10

No Duplicates.

**Comment 17 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.**

First Name: Kristian
Last Name: Corby
Email Address: kristian@caletc.com
Affiliation: CalETC

Subject: CalETC's Comments on CARB's EVSE Standards Technology Review
Comment:

```
Comment letter attached.
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/21-evsesd-comment-tr-ws-UzABZgNuUGYKeAlq.pdf

Original File Name: CalETC Comments on CARB EVSE Standards Technology Review Final 2-28-2022.pdf

Date and Time Comment Was Submitted: 2022-02-28 16:23:08

No Duplicates.

## Comment 18 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.

First Name: Cesar
Last Name: Diaz
Email Address: cesar.diaz@chargepoint.com
Affiliation: ChargePoint

Subject: ChargePoint Comments to 2-15-22 EVSE Tech Review Workshop
Comment:

```
Attached please find ChargePoint's comment on the EVSE Tech Review
and 2-15-22 Workshop.
```

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/22-evsesd-comment-tr-ws-UTJXOQBgBSRXNgRh.pdf

Original File Name: ChargePoint CARB TECH REVIEW COMMENTS _22_28_2_Fin.pdf

Date and Time Comment Was Submitted: 2022-02-28 16:37:22

No Duplicates.

**Comment 19 for EVSE Standards Technology Review (evsesd-comment-tr-ws) - 1st Workshop.**

First Name: Samantha
Last Name: Orgtega
Email Address: samantha@chargerhelp.com
Affiliation:

Subject: Comments for the EVSE Standards Technical Review
Comment:

See attached.

Attachment: https://ww2.arb.ca.gov/sites/default/files/BARCU/barcu-attach/23-evsesd-comment-tr-ws-AGMBb1IyWXhXNgBl.pdf

Original File Name: ChargerHelp! CARB EVSE Standard Tech Review.pdf

Date and Time Comment Was Submitted: 2022-03-01 11:40:45

No Duplicates.

**There are no comments posted to EVSE Standards Technology Review (evsesd-comment-tr-ws) that were presented during the Workshop at this time.**