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<th><strong>DOCKETED</strong></th>
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<tr>
<td><strong>Docket Number:</strong></td>
<td>19-AB-2127</td>
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<tr>
<td><strong>Project Title:</strong></td>
<td>Implementation of AB 2127 Electric Vehicle Charging Infrastructure Assessments</td>
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<td><strong>TN #:</strong></td>
<td>240676</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>CharIN Panelist Presentation ISO 15118</td>
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<tr>
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<tr>
<td><strong>Filer:</strong></td>
<td>Spencer Kelley</td>
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<tr>
<td><strong>Organization:</strong></td>
<td>California Energy Commission</td>
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<td>Commission Staff</td>
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Empowering the next level of e-mobility

ISO 15118 Charger Communications and Interoperability Workshop
California Energy Commission, November 10, 2021

CharIN – Charging Interface Initiative e. V.
CharIN Inc. North America
Our General Goal
The CO\textsubscript{2} neutral Mobility

Solution provided by the Combined Charging System (CCS)

Battery Electric Vehicle (BEV): Forecast 40–60 Mio. vehicles by 2030 in Europe
CharIN’s members and Value Chain

Foundation in 2015 by 12 members, CharIN grew up to a global alliance of more than 240 members
CharIN NA | The Mission

The Charging Interface Initiative North America serves as a leading trade association bringing CharIN’s global approach to decarbonization through the electrification of regional transport to the NA market.

- Assist members in coordinating, advancing, and advocating for interoperability across electric vehicle charging infrastructure.
- Drive forward the widely-adopted Combined Charging System (CCS) and the soon-to-be launched Megawatt Charging System (MCS) platforms to ensure all EVs can work seamlessly with available charging stations and services.
- Work with federal, state, and local regulatory agencies and policymakers to unleash innovation and encourage the rapid adoption of electric vehicles in municipal, commercial, and private use.
To decarbonize the North American transportation sector, we must advance electrified transportation that is interoperable, convenient, and widespread.

The Combined Charging System (CCS) and Megawatt Charging System (MCS) platforms are universal charging solutions that enable EV fast charging and grid integration.

With billions of dollars pouring in to support state-level EV charging infrastructure, local policymakers must institute industry-standard, interoperable charging technologies and best practices.
CharIN NA | The board of Directors

Oleg Logvinov
Chairman
CharIN Inc,
Founder and
CEO – IoTecha

Mohamad Abdul-Hak
Treasurer CharIN Inc.
Senior Manager High Voltage Systems and Power Electronics – Mercedes-Benz R&D NA

Jacob Mathews
Manager, EV Standards and Regulations – Ford

Barton Sidles
EV Fleet Business Development Manager, Future Mobility & Solutions – BP
One system for all
CCS and MCS

Interoperable

AC Charging
Type 1
ISO 15118 PLC

Fast Charging (FC)
CCS
ISO 15118 PLC

High Power Charging (HPC)
CCS
ISO 15118 PLC

Megawatt Charging System (MCS) > 2MW
MCS
ISO 15118 PLC

Global
DC-Connector
Communication

CharIN e. V. | Empowering the next level of e-mobility
CharIN North America Testival and 5th NA Conference & Networking event

The CharIN North America Testival with Conference & Networking Meeting will take place at Lucid Motors in Newark, CA on November 16-18, 2021.

Join the CharIN Conference as a tester or observer

Hear from international tech experts in smart charging

Network during the day or at our evening event

CharIN’s Testival North America will unite companies and technology experts from across the Smart Charging community.

From November 17-18, experts in all areas of EV technology will conduct conformance and interoperability tests involving electric vehicles, charging infrastructures, electric control units (ECUs), and communication controllers.
CharIN North America Testival and 5th NA Conference & Networking event

Testival North America – Testing companies

The following testers are on site:

**EVs**
- BMW
- DAIMLER
- EDAG
- Ford
- HYUNDAI
- LUCID
- RIVIAN
- VOLVO TRUCKS

**EVSEs**
- ABB
- BTC POWER
- chargepoint
- electricFish
- EVBOX
- EVgo
- FRIEWIRE
- heliox
- IoTech
- MIELE
- Rhombus
- SIGNET
- SpotCharge

**Test Systems**
- DEKRA
- KEYWORT
- Verisco
### CharIN North America Testival and 5th NA Conference & Networking event

**Conference - Panelists**

**November 16, 2021**

5th CharIN NA conference and networking event

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#### Panel 1  The State of the E-Mobility Industry
- Oleg Logvinov  
  Inoventica
- Robert Barrasa  
  Electric America, LLC
- Sanjay Daryal  
  Ford Pro Charging
- Cliff Fietzow  
  InCharge Energy, Inc.
- Nathan Hill  
  Daimler Trucks North America
- Paul Stith  
  Black & Veatch
- Barry Sole  
  Lucid Motors

#### Panel 2  Transportation Electrification and the Grid
- Ian Bell  
  Portland General Electric (PGE)
- Stephen Davis  
  Ublead
- Patrick Kelly  
  Powerflex
- Satyajit Patwardhan  
  ConnectMyEV
- Barry Sole  
  Lucid Motors

#### Panel 3  Plug and Charge – Technology
- Mark Schlecker  
  Lucid Motors
- Christian Hahn  
  Holbert
- Michael Macaluso  
  Inoventica
- Jonathan Katz  
  Lucid Motors
- Chris King  
  Siemens eMobility
- Arcaidy Soslow  
  Freedom Technologies

#### Panel 4  Range Anxiety in the Rear-View Mirror
- Burton Siders  
  Lucid Motors
- Sarah Hapel  
  Rivian Automotive
- Jonathan Katz  
  Lucid Motors
- Sen. Bob Wieckowski  
  California State Senator

#### Panel 5  Charging Policy – Federal, State, and Local Efforts to Improve Charging Infrastructure
- Ashok Patel  
  Duraform Power Center
- Ben Prochaska  
  Electrification Coalition
- Sara Rahboli  
  Elgo
- CharIN North America Member Call
Thank you for your kind attention!

Any questions?

Contact
E-Mail coordination@charin.global

www.charin.global