

DOCKETED

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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 CO₂ neutral Mobility



CHARIN

**Solution provided by the
Combined Charging System (CCS)**



**CO₂ neutral
energy**



**Battery Electric Vehicle (BEV):
Forecast 40 – 60 Mio. vehicles
by 2030 in Europe**

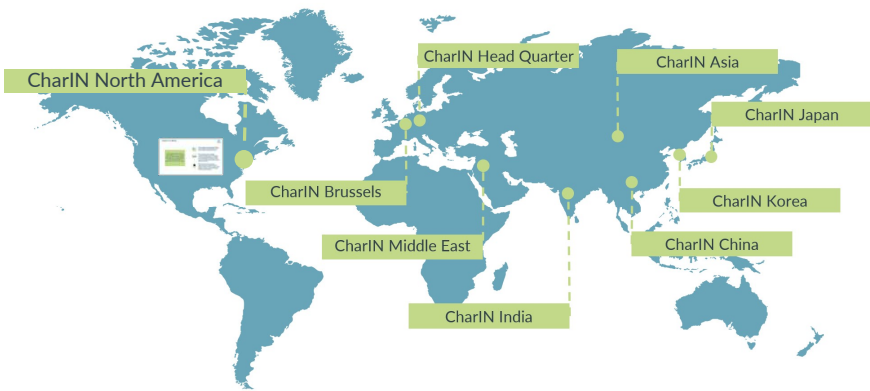


CharIN's members and Value Chain

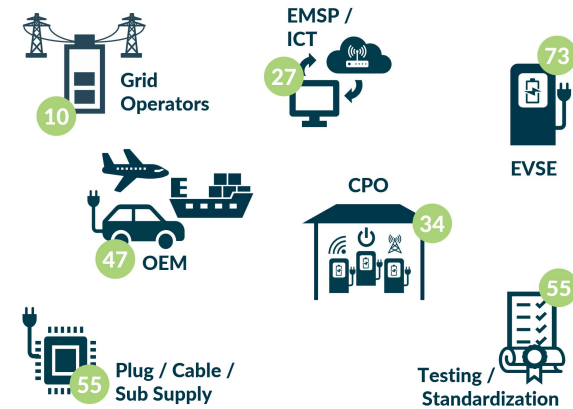
Foundation in 2015 by 12 members, CharIN grew up to a global alliance of more than 240 members



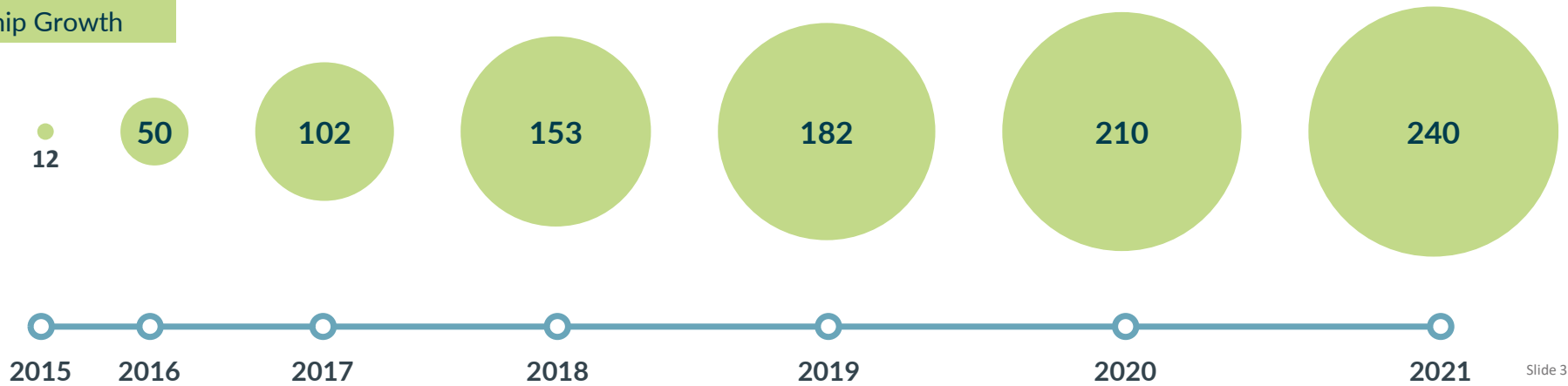
Global Presence



Biodiverse Ecosystem



Membership Growth



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.

Foundation of CharIN NA

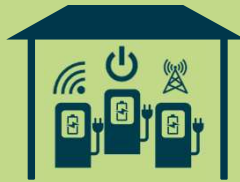
What's At Stake & State of Play



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



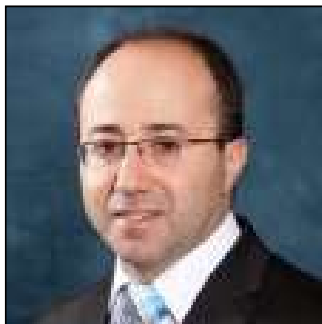
Oleg Logvinov

Chairman
CharIN Inc,
Founder and
CEO – IoTecha



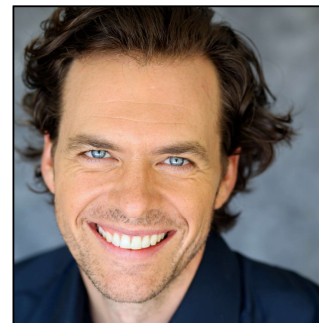
Jacob Mathews

Manager, EV
Standards and
Regulations – Ford



Mohamad Abdul-Hak

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

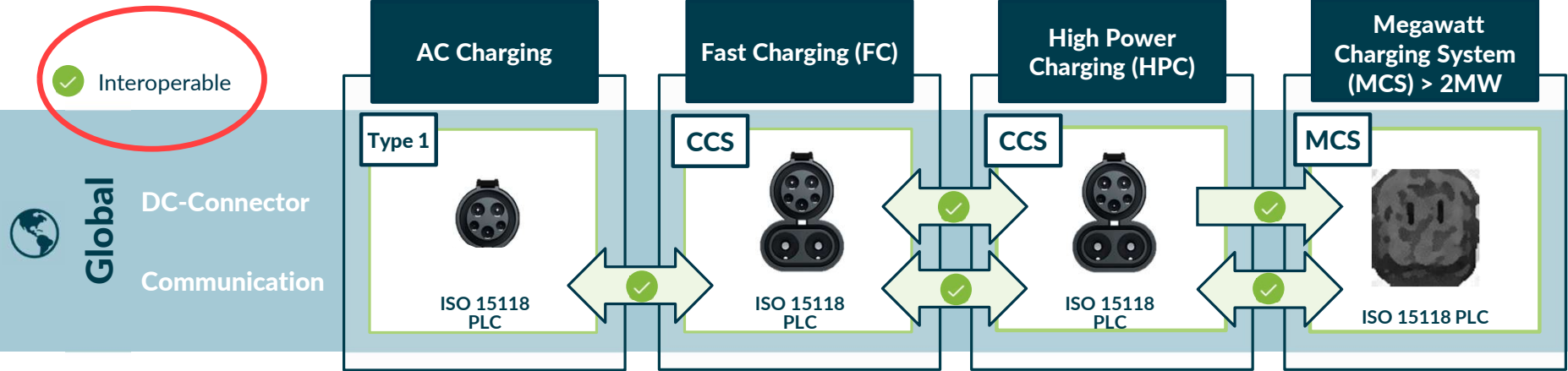


Barton Sidles

EV Fleet Business
Development Manager,
Future Mobility &
Solutions – BP

One system for all

CCS and MCS



MCS

CharIN North America Testival and 5th NA Conference & Networking 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.

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 North America Festival 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
- efacec
- ElectricFish
- EVBOX
- EVgo FAST CHARGING
- FREEWIRE
- heliox
- IoTecha
- PHIHONG
- Rhombus Energy Solutions
- SIGNET
- SparkCharge

Test Systems

- DEKRA
- KEYSIGHT TECHNOLOGIES
- verisco



CharIN North America Festival and 5th NA Conference & Networking event

Conference - Panelists



November 16, 2021

5th CharIN NA conference and networking event

Welcome and agenda introduction



Oleg Logvinov
Chairman CharIN Inc.

CharIN Welcome and Keynote Speech



Claas Bracklo
Chairman CharIN e.V.

Testing Symposium Host Welcome



Eric Bach
Lucid Motors

Panel 1 The State of the E-Mobility Industry



Oleg Logvinov
IoTecha Corp.



Robert Barrosa
Electrify America, LLC



Sanjay Dayal
Ford Pro Charging



Cliff Fietzek
InCharge Energy, Inc.



Nathan Hill
Daimler Trucks North America

Panel 2 Transportation Electrification and the Grid



Mark Schlocker
Lucid Motors



Ian Bell
Portland General Electric (PGE)



Stephen Davis
Umlaut



Patrick Kelly
PowerFlex



Paul Stith
Black & Veatch

Panel 3 Plug and Charge – Technology



Barton Sidles
bp



Christian Hahn
Hubject



Michael Macaluso
IoTecha Corp.



Satyajit Patwardhan
ConnectMyEV



Barry Sole
Lucid Motors

Panel 4 Range Anxiety in the Rear-View Mirror



Aakar Patel
Duracell Power Center



Sarah Hipel
Rivian Automotive



Jonathan Katz
Lucid Motors

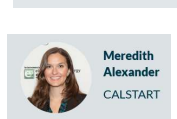


Chris King
Siemens eMobility



Arcady Sosinov
FreeWire Technologies

Panel 5 Charging Policy – Federal, State, and Local Efforts to Improve Charging Infrastructure



Meredith Alexander
CALSTART



Ben Prochazka
Electrification Coalition



Sara Rafalson
EVgo



Sen. Bob Wieckowski
California State Senate

Thank you for your kind attention!

Any questions?

Contact

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www.charin.global



[@CharIN e.V.](https://www.instagram.com/CharIN_e.V.)



CHARIN