

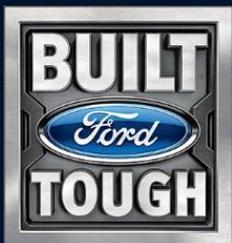
DOCKETED

Docket Number:	19-AB-2127
Project Title:	Implementation of AB 2127 Electric Vehicle Charging Infrastructure Assessments
TN #:	240733
Document Title:	Presentation - Ford Panelist - ISO 15118
Description:	N/A
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Organization:	Ford Motor Company
Submitter Role:	Public
Submission Date:	11/29/2021 3:39:22 PM
Docketed Date:	11/29/2021

CEC Workshop - Nov 10, 2021

Automakers and ISO 15118 – Plans and Challenges

Presenter: *Jacob Mathews*
Manager, EV Standards and Policy
Ford Motor Company



F-150
LIGHTNING

40-50%

Of U.S. Vehicle Volume will
be Fully Electric by 2030



Computer-generated image. F-150 Lightning Starting spring 2022. E-Transit available late 2021.

Ford

Fully committed to
leading in electrification



\$30B

Investment Through 2025



Three new BlueOvalSK battery plants – two in Kentucky and one in Tennessee – will enable 129 gigawatt hours a year of U.S. production capacity for Ford

Ford Supports CEC's updated ISO 15118 Charger Communication and Interoperability Proposal.



Challenges with ISO 15118-20 Implementation

- Hardware updates could take 4+ years once Standards are published and adopted.
- Backwards compatibility of charging protocol is a must to protect infrastructure investments and allow seamless charging at any public station
 - ISO 15118-20 is not backwards compatible with 15118-2



Challenges with ISO 15118-20 Implementation

- Interoperability is paramount and could take 3-4 years of development.
- Transport Layer Security requirements are different between 2 versions resulting in complicated handshaking between EVSE and vehicle.



Thank You!



