

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Legal Division

Date: June 23, 2022
Resolution L-616

R E S O L U T I O N

**RATIFYING ACTION BY COMMISSIONER RECHTSCHAFFEN
IN SIGNING A MULTIPARTY MEMORANDUM OF
UNDERSTANDING ON BEHALF OF THE CALIFORNIA PUBLIC
UTILITIES COMMISSION FOR A VEHICLE-TO-EVERYTHING
(V2X) COLLABORATION FOR ACCELERATING
DEVELOPMENT AND COMMERCIALIZATION OF V2X
TECHNOLOGIES**

On April 14, 2022, Commissioner Rechtschaffen of the California Public Utilities Commission (CPUC) signed, on the CPUC's behalf, a multiparty Memorandum of Understanding (MOU) designed to support and participate in the Vehicle-to-Everything (V2X) Collaboration (Collaboration). This Resolution ratifies that action.

The Collaboration will explore opportunities for research, engineering, and infrastructure investments that will accelerate and enable bidirectional plug in electric vehicle (PEV) integration into the electrical grid, potentially by establishing demonstration bidirectional charging stations, collecting and analyzing demonstration data, and preparing analyses to evaluate the business case for V2X. The Collaboration will aim to bring together cutting-edge resources from the United States Department of Energy (DOE), the DOE National Laboratories, state and local governments, utilities, and private entities to evaluate the technical and economic feasibility of integrating bidirectional charging into energy infrastructure.

The MOU is Attachment A to this Resolution, and has an effective date of April 20, 2022.

The current signatories to the MOU are the California Energy Commission, U.S. Department of Energy, National Electrical Contractors Association – Los Angeles, International Brotherhood of Electrical Workers – Chapter 11, Fermata Energy, the Waste Management Company-Lancaster, Los Angeles Department of Water and Power, Rhombus, BYD Motors, Inc., the City of Lancaster and City of Lancaster Community Choice Aggregator, Southern California Edison, Zeem Solutions, Pacific Gas and

Electric Company, General Motors LLC, Ford Motor Company, San Diego Gas & Electric, Sacramento Municipal Utility District, and Lucid Group, Inc.

Due to the potential of V2X technology to play a key role in the country's transportation future and present an opportunity to support the electrical grid as part of a broader approach to vehicle-to-grid integration, the Commission supports the MOU and ratifies Commissioner Rechtschaffen's action in signing it. Nothing in this Resolution prejudices any matter that might come before the Commission related to V2X, including cost recovery or any other issue.

COMMENTS ON DRAFT RESOLUTION

The Draft Resolution in this matter was mailed in accordance with Cal. Pub. Util. Code § 311(g). No comments were received.

FINDINGS

1. The Vehicle-to-Everything (V2X) Collaboration (Collaboration) is intended to accelerate development and commercialization of vehicle-to-everything technologies which include vehicle-to-grid, vehicle-to-building, and vehicle-to-load capabilities, by validating the technologies and demonstrating the commercial viability of such technologies.
2. The Collaboration is further described the Memorandum of Understanding (MOU) included as Attachment A to this Resolution.
3. The Collaboration will explore opportunities for research, engineering, and infrastructure investments that will accelerate and enable bidirectional plug in electric vehicle (PEV) integration into the electrical grid.
4. V2X technology has the potential to play a key role in the country's transportation future and present an opportunity to support the electrical grid as part of a broader approach to vehicle-to-grid integration.
5. The Commission should ratify Commissioner Rechtschaffen's action in signing the MOU in Attachment A.

THEREFORE, IT IS ORDERED THAT:

1. The Commission ratifies Commissioner Rechtschaffen's action in signing a multiparty Memorandum of Understanding (MOU), designed to support and

participate in the Vehicle-to-Everything (V2X) Collaboration. The MOU is Attachment A hereto.

2. Nothing in this Resolution prejudices any matter that might come before the Commission related to the Vehicle-to-Everything Collaboration contained in the Memorandum of Understanding attached hereto as Attachment A, including cost recovery or any other issue.
3. This Resolution is effective today.

I certify that the foregoing resolution was duly introduced, passed and adopted at a conference of the Public Utilities Commission held on June 23, 2022 the following Commissioners voting favorably thereon:

/s/ RACHEL PETERSON

RACHEL PETERSON
Executive Director

ALICE REYNOLDS
President
CLIFFORD RECHTSCHAFFEN
GENEVIEVE SHIROMA
DARCIE L. HOUCK
JOHN R.D. REYNOLDS
Commissioners

[Attachment A - MOU of The Vehicle-to-Everything Collaboration.pdf](#)