

DOCKETED

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WEBVTT

1

00:00:09.210 --> 00:00:10.430

Claudia Eyzaguirre: Okay.

2

00:00:17.970 --> 00:00:20.780

Claudia Eyzaguirre: Good morning, everyone. Thank you for joining us.

3

00:00:21.410 --> 00:00:23.510

Claudia Eyzaguirre: I see people are still joining.

4

00:00:41.200 --> 00:00:43.530

Claudia Eyzaguirre: Let's give it a few more...

5

00:00:44.040 --> 00:00:47.880

Claudia Eyzaguirre: Another minute or so to allow everyone to join.

6

00:01:06.160 --> 00:01:08.310

Claudia Eyzaguirre: Okay, well, welcome.

7

00:01:08.420 --> 00:01:15.390

Claudia Eyzaguirre: to Navigating the EV Charger Data and Reliability Standards Workshop, Thank you for joining.

8

00:01:15.510 --> 00:01:25.689

Claudia Eyzaguirre: I am Claudia Isague, and I'll be presenting today. I work in the Fuels and Transportation Division at the California Energy Commission. We will start shortly.

9

00:01:25.970 --> 00:01:34.820

Claudia Eyzaguirre: I have prepared a presentation that runs less than 20 minutes, and that presentation will be followed by a question and answer session.

10

00:01:45.150 --> 00:01:48.710

Claudia Eyzaguirre: It looks like most folks have joined, so let's get started.

11

00:01:49.870 --> 00:02:01.699

Claudia Eyzaguirre: This workshop will provide attendees with an understanding of the new EV charger data and reliability standards, and how to apply them to different chargers. Here's today's agenda.

12

00:02:01.820 --> 00:02:18.189

Claudia Eyzaguirre: We start with a brief regulation overview, and then go to which charges these regulations are applicable to. Then on to key compliance dates, and then next, a very high-level look at how to submit data.

13

00:02:18.630 --> 00:02:32.100

Claudia Eyzaguirre: I have a slide on enforcement, and then we'll leave a lot of time for Q&A. During Q&A, I will be accompanied by my colleague, Dustin Schell, to answer questions, and Spencer Kelly will be helping us

14

00:02:32.240 --> 00:02:36.279

Claudia Eyzaguirre: Get through, with the organization of the questioners.

15

00:02:39.170 --> 00:02:42.939

Claudia Eyzaguirre: First, some housekeeping. This workshop is being recorded.

16

00:02:43.090 --> 00:02:49.199

Claudia Eyzaguirre: We welcome virtual participation via Zoom or telephone during the question and answer period.

17

00:02:49.350 --> 00:02:57.460

Claudia Eyzaguirre: For questions not asked or answered here today, you can direct those towards me or Dustin Schell. Our emails are on this slide.

18

00:02:58.250 --> 00:03:09.440

Claudia Eyzaguirre: 22 EVI04 is the docket where this rulemaking resulted. For context and stakeholder participation, please visit the docket.

19

00:03:12.050 --> 00:03:24.279

Claudia Eyzaguirre: The CEC is committed to diversity throughout all our programs and work, and one way we do this is we survey participants to measure progress in diversity outreach efforts.

20

00:03:25.940 --> 00:03:32.599

Claudia Eyzaguirre: So, with that, please take a moment to scan this QR code on the screen, or to visit the link.

21

00:03:33.030 --> 00:03:36.089

Claudia Eyzaguirre: To participate in the Diversity Survey.

22

00:03:36.470 --> 00:03:46.509

Claudia Eyzaguirre: The survey will be closed at the end of the day, and it is anonymous, and I will give you a few seconds to visit the link or scan the QR code.

23

00:03:59.370 --> 00:04:00.330

Claudia Eyzaguirre: Thank you.

24

00:04:00.590 --> 00:04:03.840

Claudia Eyzaguirre: Now we'll start the presentation on the new regulations.

25

00:04:05.710 --> 00:04:17.600

Claudia Eyzaguirre: California has first-in-the-nation EV charger regulations. These regulations set standards for inventory reporting, 97% uptime.

26

00:04:17.870 --> 00:04:19.880

Claudia Eyzaguirre: Reliability reporting.

27

00:04:20.190 --> 00:04:27.859

Claudia Eyzaguirre: Availability status and pricing Data sharing with third parties, and customer service.

28

00:04:28.460 --> 00:04:41.409

Claudia Eyzaguirre: After multiple workshops, stakeholder input, and public comment periods, these regulations were finalized and adopted by the California Energy Commission. They are not subject to change at this time.

29

00:04:41.710 --> 00:04:46.599

Claudia Eyzaguirre: These regulations become effective on April 1st, 2026.

30

00:04:49.140 --> 00:04:52.719

Claudia Eyzaguirre: We have created web pages on the CDC website.

31

00:04:52.990 --> 00:05:12.259

Claudia Eyzaguirre: Explaining the regulation requirements. These are new. The links are here, and also Spencer's going to put them into the chat. The final full text of the regulations is available as a PDF on our website, and now also in the California Code of Regulations, website.

32

00:05:14.480 --> 00:05:25.119

Claudia Eyzaguirre: And, for those looking for information, technical information, there is a Zero Emission Vehicles Data Technical Submission Workshop being planned for the summer.

33

00:05:29.350 --> 00:05:32.869

Claudia Eyzaguirre: Regulation interaction with CEC funding programs.

34

00:05:33.250 --> 00:05:37.019

Claudia Eyzaguirre: These reliability regulations set a minimum standard.

35

00:05:37.530 --> 00:05:44.710

Claudia Eyzaguirre: CEC funding opportunities may include additional reporting or performance requirements.

36

00:05:44.950 --> 00:05:58.249

Claudia Eyzaguirre: Many CEC funding agreements are written for some reliability requirements to be replaced by the regulations once they're effective, but not necessarily all.

37

00:06:01.420 --> 00:06:04.350

Claudia Eyzaguirre: And to improve the reporting process.

38

00:06:04.550 --> 00:06:13.190

Claudia Eyzaguirre: The CDC staff is now streamlining how utilization and reliability data required by the existing funding agreements is collected.

39

00:06:14.950 --> 00:06:17.110

Claudia Eyzaguirre: Let's move on to applicability.

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00:06:17.620 --> 00:06:24.059

Claudia Eyzaguirre: This is for inventory, uptime and reliability, data sharing, and we'll go over all the exemptions.

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00:06:25.420 --> 00:06:33.899

Claudia Eyzaguirre: Inventory reporting. This applies to all Level 2 and DC fast chargers, regardless of installation date.

42

00:06:34.130 --> 00:06:37.890

Claudia Eyzaguirre: With certain exceptions that I will go over in a coming slide.

43

00:06:38.580 --> 00:06:54.539

Claudia Eyzaguirre: The first reporting period begins on July 1 of this year, and ends on July 31st, 2026, this year. And the first report is due by January 31st, 2027.

44

00:06:57.670 --> 00:07:00.650

Claudia Eyzaguirre: Reliability standards and uptime reporting.

45

00:07:00.790 --> 00:07:11.940

Claudia Eyzaguirre: This is required for DC fast chargers installed on or after January 1, 2024, that received state or ratepayer funding.

46

00:07:13.350 --> 00:07:21.439

Claudia Eyzaguirre: Again, exemptions apply, and these standards include a 97% uptime standard annually.

47

00:07:21.550 --> 00:07:25.340

Claudia Eyzaguirre: A mechanism for customers to report malfunctions.

48

00:07:25.920 --> 00:07:36.819

Claudia Eyzaguirre: Open Chargepoint Protocol 2.0.1 certification, starting for chargers installed, After September 27th, 2026,

49

00:07:37.380 --> 00:07:45.859

Claudia Eyzaguirre: For chargers installed before this date, they can maintain their current software if preferred or not specified by their funder.

50
00:07:47.010 --> 00:07:54.280
Claudia Eyzaguirre: Maintenance records... maintaining maintenance records if an... if non-networked DC fast charger.

51
00:07:54.680 --> 00:08:00.550
Claudia Eyzaguirre: For the format for the data reporting and how to submit will be covered in the How to Report.

52
00:08:00.720 --> 00:08:09.320
Claudia Eyzaguirre: Slides, and reporting continues for 6 years after installation, or till uninstalled, whichever is first.

53
00:08:12.920 --> 00:08:20.559
Claudia Eyzaguirre: Publicly funded DC fast chargers installed after January 1st, 2024 must support,

54
00:08:20.800 --> 00:08:31.879
Claudia Eyzaguirre: must submit a semi-annual uptime report. This is self-reported via the semi-annual charging specification, also known as the data dictionary.

55
00:08:32.309 --> 00:08:38.450
Claudia Eyzaguirre: For chargers installed on or after September 28th, they must transmit

56
00:08:38.710 --> 00:08:42.729
Claudia Eyzaguirre: hourly OCPP data to the CEC.

57
00:08:43.000 --> 00:08:51.630
Claudia Eyzaguirre: DC fast chargers installed after January 1st, 2024, but before September 28th, 2026,

58
00:08:51.780 --> 00:08:57.759
Claudia Eyzaguirre: They must record and retain 15-minute interval reliability data.

59
00:08:57.950 --> 00:09:01.849
Claudia Eyzaguirre: The CEC reserves the right to request these records.

60
00:09:02.160 --> 00:09:09.039
Claudia Eyzaguirre: These chargers may choose to submit hourly OCPP data in place of recording and retaining.

61
00:09:11.470 --> 00:09:23.159
Claudia Eyzaguirre: real-time data sharing with third parties. So, publicly available Level 2 and DC fast chargers that received state or ratepayer funding

62
00:09:23.400 --> 00:09:27.120
Claudia Eyzaguirre: And were installed after January 1, 2024.

63

00:09:27.260 --> 00:09:34.420

Claudia Eyzaguirre: These must make port availability data sharing with third-party software developers available.

64

00:09:36.380 --> 00:09:42.360

Claudia Eyzaguirre: Via API. And, this is port status.

65

00:09:43.020 --> 00:09:53.579

Claudia Eyzaguirre: Port characteristics, pricing, and payment methods. The application programming interface, the API, may be the choice of the charging network provider.

66

00:09:57.200 --> 00:10:00.580

Claudia Eyzaguirre: Now, here is the slide on exemptions.

67

00:10:01.060 --> 00:10:11.050

Claudia Eyzaguirre: This first set of bullets, these chargers are exempt from all requirements in these regulations. That's Level 1 AC chargers.

68

00:10:11.340 --> 00:10:18.330

Claudia Eyzaguirre: Private residential chargers at a property With 4 or fewer dwellings.

69

00:10:18.470 --> 00:10:23.100

Claudia Eyzaguirre: off-grid chargers, And research chargers.

70

00:10:23.710 --> 00:10:30.869

Claudia Eyzaguirre: Now, this next set of chargers on the bottom of the slide are exempt from reliability and uptime requirements.

71

00:10:31.240 --> 00:10:36.230

Claudia Eyzaguirre: And this is Level 2 AC chargers and fleet chargers.

72

00:10:37.120 --> 00:10:54.469

Claudia Eyzaguirre: Reliability and uptime requirements include uptime reporting, OCPP certification, OCCPP data transmission, customer service requirements, and minimum uptime performance standards. Those are the reliability and uptime requirements.

73

00:10:54.510 --> 00:11:06.340

Claudia Eyzaguirre: I do want you to note that publicly available Level 2 Level 2 chargers and fleet chargers do have to comply with real-time data sharing.

74

00:11:11.060 --> 00:11:14.380

Claudia Eyzaguirre: Next, I'm going to cover some key compliance dates.

75

00:11:16.000 --> 00:11:26.119

Claudia Eyzaguirre: So, the regulations become effective on April 1st, 2026, and with that starts the 97% annual uptime standard.

76

00:11:26.490 --> 00:11:34.149

Claudia Eyzaguirre: A customer mechanism to report outages, and real-time data sharing with third-party software developers.

77

00:11:36.320 --> 00:11:46.530

Claudia Eyzaguirre: On September 28th, 2026, the hourly reporting for DC fast chargers that are newly installed on September 28th, or later.

78

00:11:46.950 --> 00:11:55.170

Claudia Eyzaguirre: They must be OCPP2.0.1 certified, and report hourly uptime data to the CEC.

79

00:11:56.390 --> 00:12:11.730

Claudia Eyzaguirre: The first reporting period for collecting inventory and uptime data starts on July 1st, and ends on December 31st of this year. So, inventory... the first reporting doesn't start until July of this year.

80

00:12:12.500 --> 00:12:23.370

Claudia Eyzaguirre: And then that first report is due on January 31st, 2027. This is the first reporting semiannual reports for inventory and uptime.

81

00:12:28.100 --> 00:12:32.140

Claudia Eyzaguirre: Submission guidance. I have a few slides on how to submit data.

82

00:12:34.070 --> 00:12:39.169

Claudia Eyzaguirre: semi-annual reports. This is the inventory and self-reported uptime.

83

00:12:39.900 --> 00:12:47.910

Claudia Eyzaguirre: Data submitted semi-annually will be submitted to the CEC in a data submission portal in CSV format.

84

00:12:48.340 --> 00:12:53.549

Claudia Eyzaguirre: Think of a web page with a drop box where you drag and drop the CSV files.

85

00:12:53.860 --> 00:13:00.499

Claudia Eyzaguirre: So this includes the semiannual inventory reporting and the semi-annual uptime reporting.

86

00:13:00.930 --> 00:13:12.060

Claudia Eyzaguirre: And the CC staff created data dictionaries. I referred to those earlier. A data dictionary outlines the structure, content, and variable definitions for a dataset.

87

00:13:12.070 --> 00:13:26.059

Claudia Eyzaguirre: It provides a centralized source of information that can be accessed by different stakeholders, and by using a data dictionary, we can ensure the consistency, accuracy, and completeness of data throughout the system.

88

00:13:26.080 --> 00:13:34.259

Claudia Eyzaguirre: So, the semi-annual... Charger data reporting specification for semi-annual reporting can be found here on this link.

89

00:13:35.240 --> 00:13:43.180

Claudia Eyzaguirre: And for the data submission portal, you'll register as a user and request access to provide data in the CSV format.

90

00:13:46.890 --> 00:14:04.320

Claudia Eyzaguirre: hourly data reports for chargers that this applies to. So this is the network DC fast chargers installed on or after September 28th, 2026, must use OCPP 2.0.1 and report hourly data to the CEC.

91

00:14:04.660 --> 00:14:13.199

Claudia Eyzaguirre: The data dictionary format for the hourly charger data reporting specification can be found here on the CEC website.

92

00:14:13.790 --> 00:14:26.310

Claudia Eyzaguirre: And technical examples and implementation guidance will be provided by the CDC at a zero-emission vehicle data submission guidance Workshop that's tentatively scheduled for July.

93

00:14:26.940 --> 00:14:31.759

Claudia Eyzaguirre: And that's where we'll get into detailed technical guidance for those who need it.

94

00:14:35.500 --> 00:14:38.749

Claudia Eyzaguirre: Becoming an enrolled charging network provider.

95

00:14:39.310 --> 00:14:45.890

Claudia Eyzaguirre: These new regulations create a role called the Recording... Record Keeping and reporting agent.

96

00:14:46.050 --> 00:14:51.390

Claudia Eyzaguirre: This role submits the required reports or retains the required records.

97

00:14:51.760 --> 00:15:05.549

Claudia Eyzaguirre: For publicly funded chargers, the charging network provider that operates the digital communications network that remotely manages a charger during the reporting period is its record-keeping and reporting agent.

98

00:15:06.090 --> 00:15:12.540

Claudia Eyzaguirre: For publicly funded DC fast chargers, again, installed on or after September 28, 2026,

99

00:15:12.710 --> 00:15:18.559

Claudia Eyzaguirre: The charging network provider must be an enrolled charging network provider.

100

00:15:19.300 --> 00:15:31.220

Claudia Eyzaguirre: Any charging network provider may apply to become an enrolled charging network provider by submitting the application and meeting the technical requirements, application forms.

101

00:15:31.360 --> 00:15:36.780

Claudia Eyzaguirre: Are on our website, linked here, and can be emailed to the address here.

102

00:15:37.300 --> 00:15:43.859

Claudia Eyzaguirre: It is the responsibility of funding recipients to ensure that their charging network provider is enrolled.

103

00:15:46.420 --> 00:16:06.299

Claudia Eyzaguirre: The technical requirements for becoming an enrolled charging network provider include the ability to transmit the hourly charger data reporting specification to the CEC, and certification of the charging station management system to OCPP 2.0.1.

104

00:16:07.810 --> 00:16:18.010

Claudia Eyzaguirre: Once the CEC determines the application meets the above requirements, the charging network provider will be granted access to the transfer of the data portal.

105

00:16:18.500 --> 00:16:24.780

Claudia Eyzaguirre: Upon successful demonstration of the ability to transfer the hourly charger data within a 60-day period.

106

00:16:24.910 --> 00:16:30.600

Claudia Eyzaguirre: The application will be... the applicant will be deemed an enrolled charging network provider.

107

00:16:32.510 --> 00:16:33.720

Claudia Eyzaguirre: enforcement.

108

00:16:34.140 --> 00:16:38.370

Claudia Eyzaguirre: The regulations, here's what the regulations say on enforcement.

109

00:16:38.910 --> 00:16:47.309

Claudia Eyzaguirre: The CEC will enforce reliability and inventory, requirements through grant terms.

110

00:16:47.610 --> 00:16:55.629

Claudia Eyzaguirre: The CEC will publish biannual reports ranking charging network reliability starting in 2026.

111

00:16:56.620 --> 00:17:02.169

Claudia Eyzaguirre: State agencies must consider reliability data when making funding decisions.

112

00:17:03.010 --> 00:17:07.400

Claudia Eyzaguirre: And networks can dispute published metrics through a formal process.

113

00:17:12.260 --> 00:17:15.980

Claudia Eyzaguirre: This brings us to the question and answer portion of this workshop.

114

00:17:16.220 --> 00:17:20.219

Claudia Eyzaguirre: My colleagues, Dustin, Spencer, and myself will answer questions.

115

00:17:20.450 --> 00:17:24.650

Claudia Eyzaguirre: Note that the CEC staff cannot give legal guidance.

116

00:17:25.200 --> 00:17:30.069

Claudia Eyzaguirre: I also note that these regulations are finalized and are not subject to changing by the staff.

117

00:17:30.170 --> 00:17:36.169

Claudia Eyzaguirre: Please focus your questions on implementation and compliance of these regulations.

118

00:17:36.880 --> 00:17:48.919

Claudia Eyzaguirre: For Zoom participants, please raise your hand to ask a question, and we will unmute you so you can ask your question, or use the Q&A feature to type your question into Zoom.

119

00:17:49.090 --> 00:17:51.080

Claudia Eyzaguirre: The chat feature has been disabled.

120

00:17:51.620 --> 00:17:54.760

Claudia Eyzaguirre: For those of you who are participating by telephone.

121

00:17:55.120 --> 00:17:58.390

Claudia Eyzaguirre: Dial star 9 to raise your hand.

122

00:17:58.740 --> 00:18:02.609

Claudia Eyzaguirre: And star 6 to mute or unmute your phone line.

123

00:18:03.220 --> 00:18:08.569

Claudia Eyzaguirre: With that, I will, open this session up to question and answer.

124

00:18:10.430 --> 00:18:12.400

Spencer Kelley: Alrighty, thank you very much.

125
00:18:12.760 --> 00:18:16.510
Spencer Kelley: We're gonna start with the spoken comment first.

126
00:18:16.660 --> 00:18:22.820
Spencer Kelley: Let's see here... See 4 hands raised... Okay.

127
00:18:23.810 --> 00:18:30.190
Spencer Kelley: The first speaker will be Brian Jones. Please state your name and affiliation.

128
00:18:30.360 --> 00:18:33.660
Spencer Kelley: When I unmute you. Brian, I'm unmuting you now.

129
00:18:37.650 --> 00:18:44.389
Brian Jones: Hi, Brian Jones, Senior Policy and Grants Manager from Rivian. Thank you so much for the presentation.

130
00:18:44.730 --> 00:18:54.419
Brian Jones: Appreciate everyone's hard work on this. I had a question on, implementation timeline. So, you mentioned there was going to be a...

131
00:18:54.950 --> 00:19:08.620
Brian Jones: workshop tentatively scheduled for July, where you would provide technical guidance, implementation guidance, and then the hourly reporting specifically will, begin the sort of real-time hourly reporting.

132
00:19:08.620 --> 00:19:17.540
Brian Jones: requirement for anything installed on or after September 28, 2026. So, from a July workshop to the start of that requirement is...

133
00:19:17.650 --> 00:19:20.879
Brian Jones: 60 to 90 days.

134
00:19:21.070 --> 00:19:27.400
Brian Jones: And then I think, you know, to become an enrolled charging network provider, you mentioned there's kind of a 60-day process, so...

135
00:19:27.580 --> 00:19:36.620
Brian Jones: I'm just wondering if you can provide any more clarity and guidance on, you know, those timelines from when we're going to get the technical guidance that our team can

136
00:19:37.300 --> 00:19:48.190
Brian Jones: configure... figure out how to interact with the API, transfer the data, become an approved network provider.

137

00:19:48.660 --> 00:19:52.260

Brian Jones: And the start of the applicability of the regulations seems to me like.

138

00:19:52.760 --> 00:20:01.880

Brian Jones: incredibly tight. So, wondering if you can provide any kind of clarity on how that rollout is going to happen.

139

00:20:03.690 --> 00:20:12.299

Claudia Eyzaguirre: Thank you for that question, Brian. So we will... the workshop is scheduled from July. The workshop is not the only...

140

00:20:12.390 --> 00:20:28.679

Claudia Eyzaguirre: source of information on, on, submitting hourly data. We will have, also, written technical instructions available, but we also wanted to, have a workshop where people can ask questions in kind of, like, an office hours.

141

00:20:28.710 --> 00:20:40.380

Claudia Eyzaguirre: opportunity for you, for all of our, regulated public and for stakeholders. Destin, would you like to add to, anything to that about

142

00:20:40.630 --> 00:20:44.900

Claudia Eyzaguirre: The hourly reporting that begins on September 28th.

143

00:20:45.530 --> 00:20:52.740

Dustin Schell: Yeah, and thanks for the question, Brian. It actually touches on a couple different areas. So...

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00:20:53.260 --> 00:20:55.909

Dustin Schell: as Claudia said, there's nothing preventing

145

00:20:56.240 --> 00:21:12.589

Dustin Schell: anyone from kind of starting the process. The CEC is pretty close to being 100% ready to start intaking that data. We're not quite there yet, as has always been the case with this regulation. We're building the plane as we're flying it. And...

146

00:21:12.680 --> 00:21:21.140

Dustin Schell: with that said, there is an application, I believe it's linked in the, the resources in this presentation, so...

147

00:21:21.570 --> 00:21:37.920

Dustin Schell: You can download the application and send that to, enrolledcharging at energy.ca.gov. That email address, I believe, is also in the resources and on our webpage as well, so don't worry about writing that down. And you can initiate the process kind of at any time, so...

148

00:21:38.270 --> 00:21:47.369

Dustin Schell: we're definitely not stopping anyone from doing that. And then the other thing I wanted to touch on that... I'm probably gonna say this multiple times throughout this presentation.

149

00:21:47.650 --> 00:22:00.079

Dustin Schell: you know, there's colloquial understanding of terminology, and then there's the way we define it in the regulations, and sometimes you just have to pick a word and define it appropriately as works for the regulations. And...

150

00:22:00.200 --> 00:22:08.640

Dustin Schell: So we didn't know the exact technical solution back when we wrote the regulations and we used the term API, but we did define it very broadly.

151

00:22:08.640 --> 00:22:21.210

Dustin Schell: Basically, it's any machine-to-machine interface. So I will say, without getting ahead of that technical workshop, the solution is very simple and streamlined and should not take a lot of effort.

152

00:22:21.210 --> 00:22:22.260

Dustin Schell: to...

153

00:22:22.640 --> 00:22:37.869

Dustin Schell: tie in and actually be able to submit. What would probably take more effort on your team's side is actually collecting and formatting the data into the form of the data dictionaries, and those are available online now. So you can download those and start that work

154

00:22:37.870 --> 00:22:44.779

Dustin Schell: And then the actual submission process should be fairly straightforward. Again, I don't want to get ahead of the technical workshop, but...

155

00:22:44.850 --> 00:22:48.310

Dustin Schell: That would kind of be my broad response to your question.

156

00:22:48.800 --> 00:22:50.050

Brian Jones: Super helpful, thank you.

157

00:22:52.050 --> 00:22:53.059

Claudia Eyzaguirre: Thank you, Brian.

158

00:22:55.120 --> 00:23:00.219

Spencer Kelley: Thank you very much. Okay, let's move on to the next speaker here.

159

00:23:01.350 --> 00:23:08.910

Spencer Kelley: The next speaker will be Penelope Batch. I'm unmute you now. Please state your name and affiliation.

160

00:23:12.520 --> 00:23:24.390

PenelopeBach: Hi, everyone! Thank you, CEC, for all the information you're providing on the workshop today. It's very helpful. My name is Penny Bach, I'm with Ava Energy, Program Manager for AVA Charge.

161
00:23:24.390 --> 00:23:34.190
PenelopeBach: Our question is regarding, the 15-minute interval data required for non-OCPP 2.0.1 chargers.

162
00:23:34.190 --> 00:23:44.479
PenelopeBach: These are chargers that were... are installed pre-September, they're functional now. By when do we need to be compliant on the 15-minute interval data?

163
00:23:44.920 --> 00:23:50.989
PenelopeBach: And then, the follow-on question there is, does it need... does the data need to be transmitted to the CEC?

164
00:23:51.240 --> 00:23:55.070
PenelopeBach: Or do we just need to record it and retain the data?

165
00:23:55.390 --> 00:24:09.520
Claudia Eyzaguirre: Thank you for that question, Penelope. I love how this question and answer session is really clarifying things. So, for chargers, you're right, DC fast chargers installed before the end of September, the September 28th date, they are just going to record and retain

166
00:24:09.530 --> 00:24:20.309
Claudia Eyzaguirre: the 15-minute interval data session, and, that is not being submitted to the CEC. We retain the right to request that data.

167
00:24:20.340 --> 00:24:23.489
Claudia Eyzaguirre: But you're just going to record and retain it.

168
00:24:23.810 --> 00:24:26.760
Claudia Eyzaguirre: And that begins on April 1st.

169
00:24:28.300 --> 00:24:30.059
PenelopeBach: Got it, understood. Thank you so much.

170
00:24:30.060 --> 00:24:32.000
Claudia Eyzaguirre: Yeah, so there's no reporting for that.

171
00:24:32.430 --> 00:24:40.569
Claudia Eyzaguirre: requirement, just recording and retaining, and hence the title, the Record Keeping and Recording Agent, because some folks are just recording.

172
00:24:41.650 --> 00:24:42.240
PenelopeBach: Perfect.

173
00:24:42.720 --> 00:24:43.630

PenelopeBach: Thank you.

174

00:24:45.510 --> 00:24:46.970

Spencer Kelley: Thank you very much.

175

00:24:47.130 --> 00:24:49.520

Spencer Kelley: Let's move to the next speaker.

176

00:24:50.650 --> 00:24:57.680

Spencer Kelley: The next speaker will be... Lisa McGee, please state your name and affiliation. I'm unmuting you now.

177

00:25:03.450 --> 00:25:21.020

Lisa McGhee: Hi, I'm Lisa McGee, Tom's Truck Center. I have a question on, one, comprehending enforcement as well as the exemption. So, on the enforcement, is this through, then, just through CEC and the state, and this will not be local jurisdiction?

178

00:25:21.780 --> 00:25:34.570

Lisa McGhee: And then my question related to exemptions, trying to... if you could expand on the fleet charging, I want to get clarity on what is the definition of fleet charging.

179

00:25:34.620 --> 00:25:45.670

Lisa McGhee: And then also want to understand if there's exemptions regarding... regarding issues related to, which we're not done with a lot of issues that are...

180

00:25:46.240 --> 00:25:53.210

Lisa McGhee: real world as it relates to OEMs that have gone out of business, As well as service charges.

181

00:25:53.370 --> 00:26:05.770

Lisa McGhee: network companies got out of business, and it's just somewhat of a mess, and so I want to know how you plan to manage that within reason associated with these, requirements.

182

00:26:06.190 --> 00:26:12.079

Claudia Eyzaguirre: Okay, let me take those in three parts. So there was enforcement, fleet charger definition, and then

183

00:26:12.320 --> 00:26:19.399

Claudia Eyzaguirre: as sort of a third part about exemptions. So, starting with enforcement. So, the CEC...

184

00:26:19.570 --> 00:26:24.660

Claudia Eyzaguirre: We'll enforce these regulations through our grant terms.

185

00:26:24.990 --> 00:26:27.520

Claudia Eyzaguirre: Right, so that enforcement will go through.

186
00:26:27.810 --> 00:26:31.990
Claudia Eyzaguirre: any grant or funding opportunity you have with the CEC.

187
00:26:32.490 --> 00:26:40.500
Claudia Eyzaguirre: The CEC will also publish metrics. The only enforce is... will publish, charging network provider metrics.

188
00:26:40.980 --> 00:26:49.170
Claudia Eyzaguirre: And, the regulators say that other agencies that provide funding must consider

189
00:26:49.290 --> 00:26:52.350
Claudia Eyzaguirre: Reliability data in their funding decisions.

190
00:26:52.530 --> 00:26:56.599
Claudia Eyzaguirre: So that is how, these regulations will be enforced.

191
00:26:57.810 --> 00:27:01.389
Lisa McGhee: And then what is the violation associated with it, then? Sorry about that.

192
00:27:01.860 --> 00:27:05.310
Lisa McGhee: Is there a violation, or do you guys have, like, a place where that is maintained?

193
00:27:05.640 --> 00:27:07.750
Claudia Eyzaguirre: The regulations are silent on that.

194
00:27:08.350 --> 00:27:09.140
Lisa McGhee: Okay.

195
00:27:09.730 --> 00:27:11.730
Claudia Eyzaguirre: Yeah, great question.

196
00:27:12.000 --> 00:27:16.950
Claudia Eyzaguirre: and you can... when this... I... I think I said this, but the slides will be...

197
00:27:17.100 --> 00:27:25.519
Claudia Eyzaguirre: Both on the website and in the docket, you know, following this presentation. The full recording will be on the website.

198
00:27:25.650 --> 00:27:28.279
Claudia Eyzaguirre: Dustin, is there anything you want to add to enforcement?

199
00:27:30.220 --> 00:27:30.900
Dustin Schell: No.

200

00:27:31.170 --> 00:27:49.840

Claudia Eyzaguirre: Okay, let's move on to fleet charger definition. So, the fleet charger is as defined in the regulation's definition. There's a section in the regulation for definitions. We really point you to that there. That definition was

201

00:27:51.070 --> 00:28:01.290

Claudia Eyzaguirre: evolved, and with a lot of participation from our stakeholders, and please go to that definition to look at the determination.

202

00:28:01.650 --> 00:28:02.150

Dustin Schell: Claudia.

203

00:28:02.340 --> 00:28:03.590

Claudia Eyzaguirre: I copied it.

204

00:28:03.590 --> 00:28:15.360

Dustin Schell: I pasted that into the chat from Westlaw, but that really just gives me another opportunity to circle back and encourage everyone to read all of the definitions in the regulations.

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00:28:15.450 --> 00:28:34.149

Dustin Schell: They are, for the most part, very specific. They may not agree with people's colloquial understanding of a particular term, and... and best to understand the definitions first, and then go from there. Please, I'm just... everyone... it would make my day if everyone in this webinar went and read the definitions.

206

00:28:34.360 --> 00:28:38.350

Claudia Eyzaguirre: We did our best to make them plain language. They had a lot of,

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00:28:38.600 --> 00:28:42.050

Claudia Eyzaguirre: Again, so that was, fleet... fleet...

208

00:28:42.220 --> 00:28:47.680

Claudia Eyzaguirre: Right? There... it is, by the definition, in the regulations, not necessarily what...

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00:28:47.950 --> 00:28:52.650

Claudia Eyzaguirre: One business or one public member thinks a fleet charger is.

210

00:28:52.700 --> 00:29:08.629

Claudia Eyzaguirre: And then the last question was about exemptions. I listed what the exemptions are to the regulations, and the exemptions to the regulations are by charger category, so,

211

00:29:08.690 --> 00:29:11.899

Claudia Eyzaguirre: See if I can go back. For...

212
00:29:12.220 --> 00:29:15.500
Claudia Eyzaguirre: All of the regulations, the exemptions are...

213
00:29:15.770 --> 00:29:26.159
Claudia Eyzaguirre: Level 1 AC chargers, private residential chargers at dwellings with 4 or fewer units, research chargers, and off-grid chargers.

214
00:29:26.740 --> 00:29:33.280
Claudia Eyzaguirre: And then for the uptime and reliability, Requirements?

215
00:29:33.490 --> 00:29:38.550
Claudia Eyzaguirre: those, all Level 2 AC chargers are exempt.

216
00:29:38.740 --> 00:29:49.240
Claudia Eyzaguirre: from uptime and reliability, and fleet chargers as defined are exempt from uptime and reliability. I just want to note that

217
00:29:49.370 --> 00:30:06.579
Claudia Eyzaguirre: Publicly available Level 2 and publicly available fleet chargers do have to do the data sharing with third parties, third parties, with software developers, not with the CC. And other than that, the regulations are silent on any other exemptions.

218
00:30:06.700 --> 00:30:08.510
Claudia Eyzaguirre: Dustin, you want to add anything there?

219
00:30:08.510 --> 00:30:16.190
Dustin Schell: Yeah, just a quick point of clarification on the third-party data sharing. That's publicly funded chargers that are also available.

220
00:30:17.210 --> 00:30:24.820
Claudia Eyzaguirre: Yeah, publicly available and publicly funded is the... that's the distinction there, is... Needs to be made.

221
00:30:25.880 --> 00:30:27.999
Claudia Eyzaguirre: Lisa, did we answer your question?

222
00:30:29.650 --> 00:30:35.380
Lisa McGhee: Yeah, I think the only thing... I heard that it's silent, but I'm...

223
00:30:36.110 --> 00:30:49.450
Lisa McGhee: I've also wanted to expand on if that means that your answer to OEMs that have gone out of business and the issues around that, obviously don't have an exemption, but it poses...

224
00:30:49.660 --> 00:31:02.639

Lisa McGhee: Repeated issues for stakeholders involved in this technology, and how those would be addressed in a reasonable fashion based on those circumstances.

225

00:31:04.670 --> 00:31:06.680

Claudia Eyzaguirre: Well, thank you.

226

00:31:06.930 --> 00:31:21.449

Claudia Eyzaguirre: you know, the... really today, what we can help you with is focusing on answers to compliance and implementation with the regulation, and if you want to follow up in writing, you're welcome to do so. Thank you for your question.

227

00:31:26.080 --> 00:31:27.669

Spencer Kelley: Alrighty, thank you very much.

228

00:31:28.380 --> 00:31:30.719

Spencer Kelley: Let's move to the next speaker.

229

00:31:31.830 --> 00:31:36.660

Spencer Kelley: The next speaker will be... Raghav... Murali.

230

00:31:36.820 --> 00:31:40.169

Spencer Kelley: Please state your name and affiliation, I'm unmuting you now.

231

00:31:45.120 --> 00:31:52.230

Raghav Murali | PowerFlex: Yeah, thanks. Thanks, guys. Appreciate the, very informative presentation, making this, so clear for us.

232

00:31:52.390 --> 00:31:59.789

Raghav Murali | PowerFlex: My question is, sort of a takeoff on my friend Brian's question here at the beginning,

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00:32:00.090 --> 00:32:15.789

Raghav Murali | PowerFlex: Brian's question was focused on sort of, like, the sort of, like, speed with which, internal development teams are going to need to be able to absorb the technical information and sort of turn that around into sort of a compliance pathway.

234

00:32:15.870 --> 00:32:32.139

Raghav Murali | PowerFlex: My question is a little bit broader, and it's actually more of a comment, probably, than a question, so forgive me, is just that recognizing that the OCPP2.0.1 hardware and software requirement is codified in the regulation, and that there's a clear deadline.

235

00:32:32.230 --> 00:32:40.010

Raghav Murali | PowerFlex: stipulated in there, I... just want to sort of, like, caution the CEC that that

236

00:32:41.140 --> 00:32:50.400

Raghav Murali | PowerFlex: Is going to be, A challenge that you guys are going to see. The... that... that...

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00:32:50.640 --> 00:32:58.899

Raghav Murali | PowerFlex: particular requirement is nascent. It's a good requirement, it's a good platform, but it is nascent.

238

00:32:59.110 --> 00:33:04.850

Raghav Murali | PowerFlex: If you even go to OCA, and you just filter for foreign advanced security, you'll see that

239

00:33:04.910 --> 00:33:21.260

Raghav Murali | PowerFlex: There's a handful of certified chargers, many of those are just certified at the charging station level, not at the CSMS level, and even then, certification does not necessarily mean that these chargers can run on OCPP2.0.1 yet, or frankly, by September 27th.

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00:33:21.600 --> 00:33:34.810

Raghav Murali | PowerFlex: And so that is... that is something that I would encourage the CEC to think about a little bit, either formally or informally, in terms of, like, how they are going to manage just serial

241

00:33:35.350 --> 00:33:38.230

Raghav Murali | PowerFlex: Challenges related to that particular requirement.

242

00:33:38.440 --> 00:33:43.839

Raghav Murali | PowerFlex: So that's the first comment. The second comment is.

243

00:33:43.840 --> 00:33:55.169

Claudia Eyzaguirre: Wait, Rob, I'm gonna... can I ask you if we have other people waiting to try to formulate your thoughts in the form... to ask a question that we can answer? This really is a Q&A session for

244

00:33:55.550 --> 00:34:08.029

Claudia Eyzaguirre: who ask questions with compliance. Thank you so much. And we do... I want to just pause and say that Dustin and I and the rest of the staff here really spend a tremendous amount of time thinking about how we can best

245

00:34:08.350 --> 00:34:26.900

Claudia Eyzaguirre: really, help and the industry, be successful, as the same time thinking about our duty and responsibility to California, California drivers, taxpayers, and ratepayers. So, let, let me give you a mo- hand it back to you to ask a question.

246

00:34:26.900 --> 00:34:31.730

Raghav Murali | PowerFlex: Yeah, absolutely. And my other question is...

247

00:34:32.110 --> 00:34:44.840

Raghav Murali | PowerFlex: Why, is the CEC comfortable with there being different requirements in the uptime reliability Regulation and various programs that it administers? Communities in Charge, for example, requires

248

00:34:44.889 --> 00:34:53.290

Raghav Murali | PowerFlex: It was not included in the program manual or in the T's and C's, but in the latest funding agreement, required OCPP2.0.1 hardware and software for L2s.

249

00:34:53.520 --> 00:35:03.990

Raghav Murali | PowerFlex: Which is not required in the uptime reliability Regulation. We're privy to at least two other grants where that is a requirement for L2s and fleets. So my question is really,

250

00:35:04.370 --> 00:35:19.280

Raghav Murali | PowerFlex: I recognize that you said that there are different requirements depending on what the regulation is, but, like, why is that sort of, like, a policy that the CEC thinks is helpful or, you know, administrable from the standpoint of an EVAC developer?

251

00:35:19.620 --> 00:35:37.429

Claudia Eyzaguirre: Yeah, thank you for that question. So the question is, why are there different requirements at the state-level EV charger data and reliability regulations that differ with, agency... the CEC agency program funding? Dustin, do you want to start off on that one?

252

00:35:38.510 --> 00:35:41.080

Dustin Schell: Yeah, sure. So,

253

00:35:41.520 --> 00:35:52.409

Dustin Schell: to your specific question, why are we comfortable with that? You know, specific policy decisions and scopes of work are not... this is really not the forum to address those.

254

00:35:52.610 --> 00:35:58.870

Dustin Schell: just, I would reiterate what Claudia said in her presentation, which is the regulations set a minimum floor.

255

00:35:58.870 --> 00:36:14.109

Dustin Schell: And within the specific terms of funding agreement, as long as we are ourselves also compliant with the regulations, we can add additional requirements to that. And that's more than permissible, and quite frankly.

256

00:36:14.110 --> 00:36:16.310

Dustin Schell: Typical practice in a lot of scenarios.

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00:36:16.310 --> 00:36:32.259

Dustin Schell: I mean, I go back to the military, and even at a small unit level, you can always add two regulations you just can't take away. So, that being said, for specific policy decisions, as the communities in charge example that you provided, this isn't really the forum for that discussion.

258

00:36:32.740 --> 00:36:42.699

Claudia Eyzaguirre: Yes, and I just want to remind folks that these regulations apply to agencies besides the California Energy Commission. It applies to any state agencies that offer

259

00:36:43.330 --> 00:36:44.210

Claudia Eyzaguirre: public.

260

00:36:44.520 --> 00:36:47.459

Claudia Eyzaguirre: That are publicly funding or ratepayer funding.

261

00:36:47.630 --> 00:36:53.480

Claudia Eyzaguirre: chargers... EV chargers, so that is another part of the decision-making process.

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00:36:54.380 --> 00:36:57.109

Claudia Eyzaguirre: Thank you so much for that question.

263

00:36:57.290 --> 00:36:59.700

Claudia Eyzaguirre: Do we have more questions, Spencer?

264

00:37:00.560 --> 00:37:02.170

Spencer Kelley: Yes, we have quite a few.

265

00:37:02.550 --> 00:37:05.899

Spencer Kelley: Okay, let's move on to the next speaker.

266

00:37:07.310 --> 00:37:10.980

Spencer Kelley: The next speaker will be Josh Channon.

267

00:37:11.560 --> 00:37:14.449

Spencer Kelley: Please state your name and affiliation, I'm unmute you now.

268

00:37:18.010 --> 00:37:22.839

Josh Chanin (SJCE): Hi, this is Josh Channon with San Jose Clean Energy. It sounds like

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00:37:23.060 --> 00:37:32.199

Josh Chanin (SJCE): There were two enforcement mechanisms stated, one for... through CEC-funded... grant-funded chargers, where

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00:37:32.340 --> 00:37:39.179

Josh Chanin (SJCE): the enforcement would happen in the form of grant T's and C's, it sounds like. And the second would be that

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00:37:39.830 --> 00:37:47.010

Josh Chanin (SJCE): ratepayer-funded chargers, must consider enforcement in the...

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00:37:47.140 --> 00:37:49.380

Josh Chanin (SJCE): The grants or incentives that they provide.

273

00:37:49.660 --> 00:37:56.289

Josh Chanin (SJCE): Is there any enforcement mechanism for ratepayer-funded chargers that are not grant-funded?

274

00:37:57.210 --> 00:37:58.810

Josh Chanin (SJCE): Or incentive funded?

275

00:37:59.110 --> 00:38:12.699

Claudia Eyzaguirre: Let me... that's a nice summary, Josh, thank you for the question. Just to clarify, it's other funding entities must consider reliability data, so they must consider the reliability data.

276

00:38:12.780 --> 00:38:25.790

Claudia Eyzaguirre: That we're gathering from these regulations when making funding decisions. So that's a slight distinction. And your second part of your question was, are there any other enforcement mechanisms? Can you repeat the second half?

277

00:38:25.990 --> 00:38:27.229

Josh Chanin (SJCE): Sure, yeah.

278

00:38:27.580 --> 00:38:35.379

Josh Chanin (SJCE): It sounds like that second part of the enforcement, where they must consider reliability data in funding decisions, it sounds like it's based off of

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00:38:36.300 --> 00:38:47.100

Josh Chanin (SJCE): They're making funding decisions and deciding which chargers to fund through incentives or providing funding to other folks to install chargers, but some...

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00:38:48.140 --> 00:38:53.779

Josh Chanin (SJCE): Organizations are funding chargers and installing and managing charging networks on their own.

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00:38:53.910 --> 00:38:55.869

Josh Chanin (SJCE): Utilizing ratepayer funds.

282

00:38:56.040 --> 00:39:01.750

Josh Chanin (SJCE): Is there any enforcement mechanism in place for those situations?

283

00:39:04.110 --> 00:39:11.080

Claudia Eyzaguirre: you know, I can just say that the enforcement mechanisms really are, like, the four bullet points that are on

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00:39:11.350 --> 00:39:30.059

Claudia Eyzaguirre: that were on the slide, and, you know, as per how regulations and statutes work, we,

you know, we can enforce only to the level of compliance that we have. My colleague Taylor, I think, wants to join in here and add something to there. Thanks, Taylor.

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00:39:30.460 --> 00:39:40.730

Taylor Marvin: Yeah, thanks for the question, Josh. That would be up to the agency that is approving ratepayer-funded investments, how they would want to enforce those requirements.

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00:39:41.900 --> 00:39:47.170

Josh Chanin (SJCE): So, if they decided not to enforce those requirements on ratepayer-funded chargers, that they are

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00:39:47.520 --> 00:39:49.890

Josh Chanin (SJCE): Managing. That is their choice.

288

00:39:49.890 --> 00:39:50.570

Taylor Marvin: That's correct.

289

00:39:53.440 --> 00:39:55.699

Dustin Schell: Maybe just to add to that.

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00:39:55.860 --> 00:40:00.979

Dustin Schell: you know, and Claudine stated this one earlier as well, we... we are...

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00:40:01.150 --> 00:40:08.789

Dustin Schell: Publishing, reliability assessments and metrics for those other agencies to consider.

292

00:40:08.940 --> 00:40:11.349

Dustin Schell: 4 chargers in the future, so if you had

293

00:40:11.600 --> 00:40:20.040

Dustin Schell: Theoretically a very poor performing operator that should be taken into consideration for future funding as well.

294

00:40:23.330 --> 00:40:24.040

Josh Chanin (SJCE): Sure.

295

00:40:26.410 --> 00:40:28.309

Claudia Eyzaguirre: Thank you, Josh.

296

00:40:28.620 --> 00:40:32.670

Claudia Eyzaguirre: Spencer, do we... I think we have some people in the queue. Should we go to the next question?

297

00:40:33.500 --> 00:40:34.319

Spencer Kelley: Sure thing.

298

00:40:35.940 --> 00:40:36.980

Spencer Kelley: Alrighty.

299

00:40:39.210 --> 00:40:46.800

Spencer Kelley: The next speaker will be... Let's see here... Matthew Rutherford?

300

00:40:46.930 --> 00:40:50.319

Spencer Kelley: Please state your name and affiliation, I'm unmuting you now.

301

00:40:54.800 --> 00:40:59.259

Matthew Rutherford (he/him) - PenCleanEnergy: Hi, Matthew Rutherford with Peninsula Clean Energy.

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00:40:59.350 --> 00:41:15.430

Matthew Rutherford (he/him) - PenCleanEnergy: I had a question, I think this is brief, related to exemptions, or two questions. One, just wanted to confirm, looking through the definitions, whether or not the regulations would apply to,

303

00:41:15.540 --> 00:41:23.169

Matthew Rutherford (he/him) - PenCleanEnergy: outlets, as well as full chargers, and I'm talking about outlets where a customer would bring their own charging cord.

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00:41:23.180 --> 00:41:34.770

Matthew Rutherford (he/him) - PenCleanEnergy: And second, the exemption for private residential chargers that was cited earlier, that specifically said it would only be

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00:41:34.770 --> 00:41:44.710

Matthew Rutherford (he/him) - PenCleanEnergy: That would apply to, multifamily, dwellings where there's 4 units or fewer. Well, when I looked at the definition section.

306

00:41:44.860 --> 00:42:02.149

Matthew Rutherford (he/him) - PenCleanEnergy: That private residential charger definition also included, chargers at, multifamily dwellings of more than 4 units, as long as the charger is only for the use of a single

307

00:42:02.150 --> 00:42:11.749

Matthew Rutherford (he/him) - PenCleanEnergy: residential unit on the property. So, just, like, clarification on both those two things, make sure that I'm understanding everything correctly.

308

00:42:11.960 --> 00:42:23.489

Claudia Eyzaguirre: Thank you for your question, Matthew, and thank you for reading. You just made Dustin happy here, actually, reading the definitions. You're absolutely right. The definition of

309

00:42:23.490 --> 00:42:37.570

Claudia Eyzaguirre: private residential charger is, like, the authoritative answer on that, and you are correct

in your interpretation, because that is what the definition says. I, left that off the slide, just because, you know, we're not getting into the fine...

310

00:42:37.930 --> 00:42:44.120

Claudia Eyzaguirre: As we always say, go to the regulatory text for the fine details, but, that is correct.

311

00:42:44.130 --> 00:42:55.019

Claudia Eyzaguirre: So if they're... as he said, as the definition stands, for use for... defined by use for single resident, then they are a private residential charger, and they are exempt.

312

00:42:55.020 --> 00:43:05.349

Claudia Eyzaguirre: And then also the regulations say that level 1 AC chargers are exempt, and, I believe that covers wall outlets.

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00:43:07.560 --> 00:43:17.650

Matthew Rutherford (he/him) - PenCleanEnergy: I appreciate that. But just to clarify, there's also level 2 outlet charging options out there, including low-power level 2.

314

00:43:17.650 --> 00:43:31.629

Matthew Rutherford (he/him) - PenCleanEnergy: So, I know that generally speaking, Level 2, I understand it to be subject to the requirements, but whether or not outlets are, are considered as subject, or if it's just Level 2 chargers.

315

00:43:33.590 --> 00:43:42.680

Claudia Eyzaguirre: I would refer you... I would refer all of us to the definition of Level 2, AC chargers.

316

00:43:44.450 --> 00:43:49.990

Claudia Eyzaguirre: And, in that case. Dustin, is there anything you would like to add to this question?

317

00:43:50.790 --> 00:43:56.519

Dustin Schell: I apologize, I was typing the answer in the Q&A. I think you got it, Claudia.

318

00:43:57.760 --> 00:44:01.720

Claudia Eyzaguirre: And we did get a,

319

00:44:01.970 --> 00:44:05.830

Claudia Eyzaguirre: A comment that we want to, you know.

320

00:44:06.230 --> 00:44:17.160

Claudia Eyzaguirre: private chargers at large multifamily, are not... are distinct from designated parking spaces, so we want to make that distinction. But thank you for that question.

321

00:44:19.260 --> 00:44:22.039

Claudia Eyzaguirre: Matthew, did we answer your question?

322

00:44:23.140 --> 00:44:33.409

Matthew Rutherford (he/him) - PenCleanEnergy: I... yeah, I think... I think so. I'll look to the, the definitions around charging outlets, just to make sure. And...

323

00:44:34.720 --> 00:44:43.439

Matthew Rutherford (he/him) - PenCleanEnergy: You just said that the... there's a distinction between private residential chargers and chargers in assigned parking?

324

00:44:44.750 --> 00:45:01.390

Claudia Eyzaguirre: What I'm sort of saying is, you know, look carefully at the definition of private residential charging, and make sure that you're adhering to that definition, you know, not to some other definition of how parking spaces are designated.

325

00:45:02.590 --> 00:45:09.620

Matthew Rutherford (he/him) - PenCleanEnergy: Okay, gotcha. I appreciate that, and also appreciate all the work that the team has put into this.

326

00:45:10.220 --> 00:45:11.200

Claudia Eyzaguirre: Thank you.

327

00:45:13.080 --> 00:45:14.100

Spencer Kelley: Thank you very much.

328

00:45:14.530 --> 00:45:24.540

Spencer Kelley: Okay... Let's see here... The next speaker will be...

329

00:45:24.820 --> 00:45:31.629

Spencer Kelley: Mal Skoron, please state your name and affiliation. I'm unmuting you now.

330

00:45:34.610 --> 00:45:38.749

Mal Skowron: Good morning. This is Mal Skoron from Tesla.

331

00:45:39.130 --> 00:45:50.839

Mal Skowron: So, fleet chargers, as defined, in the chat, with what Dustin pasted.

332

00:45:50.860 --> 00:46:03.930

Mal Skowron: are exempt from the reliability reporting piece, is my understanding. But I also believe that there are grant solicitations, such as for depots, that are

333

00:46:03.930 --> 00:46:17.499

Mal Skowron: consistent with the reliability reporting requirements outlined in the regulation, except for the fact that they don't articulate the exemption for EV chargers, or for fleet chargers, excuse me.

334

00:46:17.500 --> 00:46:29.459

Mal Skowron: So apologies if this is duplicative with a previous question, but is there going to be an effort to align program implementation with, that particular exemption?

335

00:46:30.620 --> 00:46:49.169

Claudia Eyzaguirre: So, let's take your question in two parts. So, the CEC has funding opportunities, programs, and solicitations that are open and available that have reliability, reporting and requirements that may go above

336

00:46:49.420 --> 00:46:54.690

Claudia Eyzaguirre: the requirements of these statewide EV charger regulations.

337

00:46:54.770 --> 00:47:00.199

Claudia Eyzaguirre: And, in the case, if you are an existing recipient.

338

00:47:00.200 --> 00:47:16.960

Claudia Eyzaguirre: of funding from the CEC, we will need to look to either the implementation manual or the terms and conditions for, what's been agreed upon for the, for that program in which you're participating. So that is,

339

00:47:17.210 --> 00:47:24.639

Claudia Eyzaguirre: how our funding programs will continue. The second part of your question is, will the CEC,

340

00:47:24.910 --> 00:47:29.870

Claudia Eyzaguirre: to answer the second part, will the CEC work to align our...

341

00:47:30.260 --> 00:47:49.820

Claudia Eyzaguirre: funding programs with the regulations. I'm going to answer some of that, and then I'm going to hand it over to Dustin. And so, there are certain funding agreements that speak to, when EV charger reliability regulations are in effect, that they will then... compliance will fall under that

342

00:47:50.300 --> 00:47:53.899

Claudia Eyzaguirre: will fall under the regulations.

343

00:47:54.580 --> 00:48:06.440

Claudia Eyzaguirre: And you will... we are working... certain of our colleagues, Destiny's colleagues, are working quite hard right now to come up with an approach to... to release an approach to streamline

344

00:48:06.500 --> 00:48:21.009

Claudia Eyzaguirre: data collection from reliability to make that easier for everyone who's participating. But Dustin, do you have any comments going on to, as going forward, the CEC's policy approach to

345

00:48:21.120 --> 00:48:23.380

Claudia Eyzaguirre: Funding agreements.

346

00:48:23.750 --> 00:48:25.630

Claudia Eyzaguirre: In light of the new regulations?

347

00:48:25.790 --> 00:48:44.120

Dustin Schell: Yeah, absolutely, Claudia. So, just kind of similar to my comment before, this isn't necessarily the forum to discuss specific policy decisions and specific funding agreements. As Claudia alluded to, we... there is an ongoing effort at CEC to streamline data reporting

348

00:48:44.250 --> 00:48:57.710

Dustin Schell: across all programs. However, that is distinct from implementing the regulations. Very much related, but also very much distinct, and this just really isn't the forum to get into those specific policy calls.

349

00:48:57.750 --> 00:49:06.590

Dustin Schell: The regulations establish a minimum standard. Going above that minimum standard in a particular funding opportunity is absolutely an okay thing for the CDC to do.

350

00:49:10.180 --> 00:49:13.440

Mal Skowron: Would it be possible for me to ask a follow-up question?

351

00:49:14.360 --> 00:49:16.050

Claudia Eyzaguirre: Sure, I believe we have time.

352

00:49:16.680 --> 00:49:35.929

Mal Skowron: Thank you. And I should have started off by saying I do appreciate the work that you all are doing to try to streamline and smooth out implementation. I think the opportunity to ask questions in this office hours format is a really good example of that, so thank you for doing that.

353

00:49:36.760 --> 00:49:48.329

Mal Skowron: I guess I appreciate the clarification that, solicitations can set requirements beyond the mandatory minimums, but I...

354

00:49:48.570 --> 00:49:53.130

Mal Skowron: would like to better understand the rationale there.

355

00:49:53.260 --> 00:50:12.810

Mal Skowron: if the regulation explicitly exempts certain kinds of charges from reporting, what's the purpose of that if grant solicitations can and do require them anyway? Particularly since, both the regulations and some of the programs are implemented by the CEC.

356

00:50:12.910 --> 00:50:31.660

Mal Skowron: Because it seems like if there's inconsistency, then the exemption doesn't provide the relief that it was intended to offer. So, just trying to understand that a little bit better, especially as it relates to, I think, some confusion as to, like, what needs to be done and how for some of these programs.

357

00:50:33.300 --> 00:50:45.070

Dustin Schell: Yeah, thanks for the input, Mel. As I stated before, this just really isn't the forum. This forum

is about implementing the regulations themselves, and we can get into specific policy decisions.

358

00:50:45.470 --> 00:50:52.700

Dustin Schell: on a funding program-by-funding program basis, and there's other forums to tackle that. This just isn't the forum for that conversation.

359

00:50:54.040 --> 00:50:55.869

Claudia Eyzaguirre: Yeah, and I would just add that

360

00:50:55.900 --> 00:51:15.790

Claudia Eyzaguirre: just so for folks to show you that regulations are based on authorizing statutes made by the legislature that direct what the CEC... the CEC was directed to make these regulations. Within many of our programs, we are directed by other goals.

361

00:51:15.790 --> 00:51:25.670

Claudia Eyzaguirre: and statutes that are far more wide-ranging to, to do the work and meet the mission of the Energy Commission. So they are two distinct

362

00:51:26.050 --> 00:51:29.550

Claudia Eyzaguirre: They're two distinct efforts that are, that are going on.

363

00:51:30.050 --> 00:51:31.710

Claudia Eyzaguirre: So, thank you for the question.

364

00:51:34.890 --> 00:51:36.480

Spencer Kelley: Artie, thank you very much.

365

00:51:38.080 --> 00:51:43.149

Spencer Kelley: We're going to... Move to the, written question and answer.

366

00:51:43.990 --> 00:51:45.069

Spencer Kelley: section here.

367

00:51:46.110 --> 00:51:51.850

Spencer Kelley: The first question that I see is from Brandon Pratt with Ford.

368

00:51:51.970 --> 00:52:08.180

Spencer Kelley: This first question is, what is CC's expectation for reporting agents when data is partially complete and efforts to collect information from customers have not provided the required information? Parentheses, especially

369

00:52:08.210 --> 00:52:12.549

Spencer Kelley: for pre-existing EVSEs, end parentheses.

370

00:52:12.760 --> 00:52:16.740

Spencer Kelley: He has two questions, so do you want to answer the first one, and then we'll go to the second?

371

00:52:16.910 --> 00:52:24.409

Claudia Eyzaguirre: Yes, let's take them one at a time. That's a great question, and very directed towards implementation, so thank you.

372

00:52:26.180 --> 00:52:28.330

Claudia Eyzaguirre: Dustin, can I ask you to answer this one?

373

00:52:30.790 --> 00:52:43.860

Dustin Schell: Sure. In terms of compliance with the regulations, ultimately, it is the responsibility of the... well, it is a bit variable, but the charging station operator, again, that's a defined term.

374

00:52:43.970 --> 00:52:53.049

Dustin Schell: And the, the list of definitions, the site host, again, a defined term, and the list of definitions, or the funding recipient.

375

00:52:53.560 --> 00:53:03.220

Dustin Schell: again, defined term. Any of those entities, depending upon the specific requirement in the regulation.

376

00:53:03.960 --> 00:53:19.100

Dustin Schell: may be responsible for ensuring that the reporting is happening on behalf of the chargers. Just to make that a little bit clearer, so the charging station operator, is essentially the utility customer of record for the charger.

377

00:53:19.780 --> 00:53:21.230

Dustin Schell: And, and...

378

00:53:21.780 --> 00:53:37.380

Dustin Schell: one would presume that that would be the owner of the charger, and they're responsible, ultimately, for ensuring that semi-annual reporting is being done on their behalf by the record-keeping and reporting agent. So they do have a responsibility in there.

379

00:53:37.380 --> 00:53:42.810

Dustin Schell: And so, in terms of partial complete data,

380

00:53:43.370 --> 00:53:49.350

Dustin Schell: You know, again, we're gonna have to kind of address that compliance-related issue on a case-by-case basis.

381

00:53:49.490 --> 00:53:51.240

Dustin Schell: And, and...

382

00:53:51.670 --> 00:54:02.119

Dustin Schell: we're still working through some of the kinks on that. To the second question, could we release a list of recipients of CEC incentive programs to help close the data gaps?

383

00:54:02.480 --> 00:54:14.420

Dustin Schell: that is, something that we're investigating now. Obviously, there's a lot of concerns beyond just technically compiling a list, in terms of releasing those things publicly. So,

384

00:54:15.180 --> 00:54:21.270

Dustin Schell: Kind of, maybe not the most satisfactory answer to that second one, but it is something that we're investigating and working on.

385

00:54:24.780 --> 00:54:26.349

Spencer Kelley: Thank you very much, Dustin.

386

00:54:27.840 --> 00:54:29.870

Spencer Kelley: Let's move to the next written question.

387

00:54:31.270 --> 00:54:34.320

Spencer Kelley: from Luis... Elsvik?

388

00:54:34.860 --> 00:54:40.770

Spencer Kelley: Will the CEC publish a list of its CMPs? Question mark.

389

00:54:43.680 --> 00:55:02.970

Dustin Schell: I'm assuming that's referring to enrolled charging network providers. As yet, there are zero. As we compile a list, I, you know, I am a professional recommender, I am not a decider, but I would imagine eventually there will be, like, an eligible charging network provider list that lists

390

00:55:03.210 --> 00:55:05.380

Dustin Schell: The enrolled charging network providers.

391

00:55:05.860 --> 00:55:08.529

Dustin Schell: Who have gone through that process with the CDC.

392

00:55:10.830 --> 00:55:11.979

Spencer Kelley: Thank you very much.

393

00:55:13.060 --> 00:55:15.249

Spencer Kelley: Let's move to the next written question.

394

00:55:15.830 --> 00:55:19.760

Spencer Kelley: From Siegfried... Team?

395

00:55:21.000 --> 00:55:30.180

Spencer Kelley: Are grant recipients required to submit a semi-annual charging report from January 1st, 2026 through June 30th, 2026?

396

00:55:30.620 --> 00:55:31.210

Spencer Kelley: Question mark.

397

00:55:31.210 --> 00:55:37.849

Claudia Eyzaguirre: very glad that someone asked this question, and the answer is no. The regulations

398

00:55:38.160 --> 00:55:42.740

Claudia Eyzaguirre: say, and it's very detailed, and a small thing to catch, that

399

00:55:42.950 --> 00:55:52.429

Claudia Eyzaguirre: Reporting is required for the first full reporting period, and as they became effective on April 1st.

400

00:55:52.450 --> 00:56:04.790

Claudia Eyzaguirre: The first full reporting period does not begin until July 1st. So, January 1st, 2026 through June 30th, 2026 is not a reporting period.

401

00:56:05.840 --> 00:56:12.849

Dustin Schell: And... Just to, maybe hijack this question to add in another piece of detail.

402

00:56:13.480 --> 00:56:22.049

Dustin Schell: looking through the regulations, each section spells out requirements. Not every section has requirements, some are more descriptive.

403

00:56:22.050 --> 00:56:34.010

Dustin Schell: However, any section that includes requirements, either the second-to-last or the last subsection contained within it, spells out a list of exemptions. And in this case,

404

00:56:34.010 --> 00:56:40.300

Dustin Schell: no report being required for a partial year, or a partial reporting period.

405

00:56:40.300 --> 00:56:56.840

Dustin Schell: is one of those exemptions, which is not really the point that I wanted to make. The point that I just wanted to make is for anyone trying to better understand the exemptions for any particular requirement, it's usually the second to last or the last subsection within any particular section.

406

00:56:57.090 --> 00:57:11.510

Claudia Eyzaguirre: Yes, and those are the kind of questions that are... we are more than happy to answer, and to give you clarity on. You can always, ask them here, or shoot us a question, because we do appreciate your... everyone's effort towards compliance.

407

00:57:13.270 --> 00:57:15.220

Claudia Eyzaguirre: We go to the next one, Spencer.

408

00:57:15.770 --> 00:57:19.600

Spencer Kelley: or thing... Who's the next written question?

409

00:57:19.880 --> 00:57:30.110

Spencer Kelley: Next question is from Rosa Mitsum Masu. Scotty, parentheses, FTD... E-v-i-d-u.

410

00:57:30.440 --> 00:57:36.130

Spencer Kelley: When will the written technical instructions become available? Question mark.

411

00:57:36.500 --> 00:57:38.819

Claudia Eyzaguirre: So, I believe that this...

412

00:57:38.990 --> 00:57:48.389

Claudia Eyzaguirre: is a question about the written technical data submission instructions for the hourly OCPP, for the hourly charging data, and

413

00:57:48.450 --> 00:58:00.440

Claudia Eyzaguirre: My colleagues in Fuels and transportation are working on that right now, and we are, they are under final review and will be out shortly.

414

00:58:01.340 --> 00:58:03.930

Claudia Eyzaguirre: So we're doing our best to make those available for you.

415

00:58:06.110 --> 00:58:07.800

Spencer Kelley: Thank you very much.

416

00:58:09.320 --> 00:58:11.530

Spencer Kelley: Let's move to the next written question.

417

00:58:11.990 --> 00:58:20.080

Spencer Kelley: Melanie Jasper, do these requirements apply to Level 2 chargers that are not connected to a charging network? Question mark.

418

00:58:20.210 --> 00:58:24.399

Spencer Kelley: For example, directly wired to an apartment unit.

419

00:58:28.310 --> 00:58:31.450

Claudia Eyzaguirre: That M... Dustin, you want?

420

00:58:31.630 --> 00:58:35.420

Dustin Schell: Yeah, you don't think... okay, so,

421

00:58:36.440 --> 00:58:43.240

Dustin Schell: That would be a non-networked charger, and the regulations do consider non-networked chargers.

422

00:58:43.640 --> 00:58:55.330

Dustin Schell: And generally speaking, whether or not the charger is networked doesn't define the applicability of the requirements.

423

00:58:55.540 --> 00:59:02.210

Dustin Schell: So, you know, the reliability requirements would be applicable to a publicly funded, non-networked charger.

424

00:59:02.740 --> 00:59:19.350

Dustin Schell: Unless another exemption applied, such as the Level 2 exemption for non-networked chargers. Those chargers would still be required to make semi-annual reports on the inventory reporting side, but because they are non-networked.

425

00:59:19.580 --> 00:59:28.750

Dustin Schell: I'm sorry, because they're L2, they wouldn't be required to report, reliability data or meet the uptime standards or any of that stuff.

426

00:59:29.950 --> 00:59:46.409

Dustin Schell: there is a world where a non-networked direct current fast charger might exist. I'm not really aware of any at this stage in the game. However, a non-networked direct current fast charger that was also publicly funded and didn't meet any of the other exemptions

427

00:59:46.410 --> 00:59:57.379

Dustin Schell: would have to meet the reliability requirements, and there's specific requirements for record keeping, etc, spelled out for non-networked chargers in the regulations.

428

00:59:58.240 --> 01:00:06.420

Dustin Schell: again, that's... it's not something that we really see out there right now as a non-network DCFC, but there is a world where that might exist.

429

01:00:07.930 --> 01:00:08.680

Dustin Schell: Hold on.

430

01:00:09.490 --> 01:00:10.030

Claudia Eyzaguirre: Yep.

431

01:00:10.340 --> 01:00:19.360

Claudia Eyzaguirre: So, to summarize, if they're applicable in inventory, the semi-annual inventory reporting, which Level 2 chargers are subject to.

432

01:00:22.960 --> 01:00:27.930

Spencer Kelley: Okay, I'm seeing two questions in a row from Melanie Jasper. Second question is.

433

01:00:28.420 --> 01:00:31.769

Spencer Kelley: Do the reporting requirements include Level 2 outlets?

434

01:00:32.000 --> 01:00:33.709

Spencer Kelley: Does that make sense to y'all?

435

01:00:34.770 --> 01:00:39.530

Dustin Schell: I could infer what is meant by that, but maybe if Melanie wants to...

436

01:00:40.260 --> 01:00:44.749

Dustin Schell: come on and clarify what is meant by Level 2 outlets.

437

01:00:48.590 --> 01:00:50.149

Spencer Kelley: Scoop that one for now.

438

01:00:53.320 --> 01:00:54.810

Spencer Kelley: Alrighty...

439

01:00:54.810 --> 01:01:12.029

Claudia Eyzaguirre: We would, just to clarify, like, a 240 volt outlet that is in your home or is somewhere that's for, you know, in a public apartment building that is for dryers or other utility purposes, of course, is not a charger, so, you know.

440

01:01:12.150 --> 01:01:14.389

Claudia Eyzaguirre: All 240 volt.

441

01:01:15.060 --> 01:01:22.580

Claudia Eyzaguirre: you know, outlets are not considered a level 2 charger. You would have to be more specific in your question.

442

01:01:25.780 --> 01:01:26.670

Spencer Kelley: Ernie?

443

01:01:27.020 --> 01:01:28.290

Spencer Kelley: Thank you very much.

444

01:01:29.510 --> 01:01:33.390

Spencer Kelley: I see another question here from Luis Elvik.

445

01:01:33.550 --> 01:01:43.350

Spencer Kelley: Let's see... Are the only regulated chargers, so those that are operated by state agencies.

446

01:01:43.490 --> 01:01:48.479

Spencer Kelley: Or are any charges in California meeting the requirements you outlined?

447

01:01:48.670 --> 01:01:54.499

Spencer Kelley: Parentheses, including those owned by private entities. And parentheses.

448

01:01:54.970 --> 01:01:55.750

Spencer Kelley: Question mark.

449

01:01:57.490 --> 01:02:07.669

Claudia Eyzaguirre: Yeah, thank you for this question. So, the regulations define applicability by When the charger was installed.

450

01:02:08.540 --> 01:02:13.190

Claudia Eyzaguirre: And, well, let's start with,

451

01:02:13.310 --> 01:02:19.600

Claudia Eyzaguirre: with inventory. Inventory applies to all chargers, regardless of installation date.

452

01:02:19.730 --> 01:02:28.650

Claudia Eyzaguirre: And it exempts private residential chargers, level 1 chargers, research chargers, And...

453

01:02:29.670 --> 01:02:38.880

Claudia Eyzaguirre: temporary chargers. So that would be, say, yes, it is... includes those owned by private entities.

454

01:02:39.380 --> 01:02:42.479

Claudia Eyzaguirre: To answer that question.

455

01:02:42.480 --> 01:02:45.369

Dustin Schell: Yeah, Claudia, maybe if I could just tag on to that one.

456

01:02:45.370 --> 01:02:46.040

Claudia Eyzaguirre: Yeah, please.

457

01:02:46.270 --> 01:02:49.970

Dustin Schell: Premise of the question is,

458

01:02:51.620 --> 01:03:09.690

Dustin Schell: well, to address the premise of the question, ownership doesn't dictate applicability from the perspective of the regulations. The factors that dictate applicability, without us having to try and go through by memory and rattle off every single exemption, they're generally... did it receive public funds?

459

01:03:09.810 --> 01:03:22.430

Dustin Schell: When was it installed? Those are the big factors that are going to influence whether the reliability portions of the regulation are applicable to it. For the inventory reporting piece.

460

01:03:22.680 --> 01:03:38.039

Dustin Schell: it's much more broad. It does exclude private residential chargers. Again, a defined term, please go look at the list of definitions. But that's what's going to determine the applicability, right? There's certain exemptions. None of those are dependent on ownership, though.

461

01:03:41.310 --> 01:03:49.139

Claudia Eyzaguirre: Louise, I hope we answered your question. Folks are welcome to raise hands, and... and ask the questions to us directly.

462

01:03:49.280 --> 01:03:54.510

Claudia Eyzaguirre: If, you know, we're not getting the nuance in what was typed into the Q&A.

463

01:03:56.840 --> 01:04:02.240

Claudia Eyzaguirre: If there's not any other hands, Spencer, let's keep going with our, typed questions.

464

01:04:09.240 --> 01:04:18.169

Spencer Kelley: Well, I do see, before we get too far away from Melanie and Jasper's questions, I do see she added a clarification in the written Q&A here.

465

01:04:18.640 --> 01:04:22.339

Spencer Kelley: To clarify my question, would Level 2 outlets

466

01:04:22.500 --> 01:04:36.699

Spencer Kelley: comma, networked or non-networked, comma, installed in a multi-family 4-unit or more parking garage, and used for EV charging, meet the definition for AC Level 2? Question mark.

467

01:04:39.300 --> 01:04:48.209

Dustin Schell: Yeah, so Melanie, we can't really get into, is my charger subject to the regulations for every single charger on here, right? There are limits to...

468

01:04:48.480 --> 01:04:54.540

Dustin Schell: our ability to interpret the regulations, and that just gets into procedural government stuff.

469

01:04:54.670 --> 01:05:09.760

Dustin Schell: So, generally speaking, level 2 chargers, not outlets, I want to get away from that term, outlets, but a level 2, an AC level 2 charger would be exempt from the reliability portions, but

470

01:05:10.210 --> 01:05:15.849

Dustin Schell: Depending upon its particular circumstance, likely would still be required to make inventory reports.

471
01:05:16.070 --> 01:05:20.270
Dustin Schell: If it is installed in...

472
01:05:20.800 --> 01:05:39.660
Dustin Schell: multi-unit dwelling of 4 or more, there's a good chance that it does, but again, we can't get into, is my charger subject to the regulations? And especially not in this forum, because there's 144, or at one point at least, there was 144 attendees, and we just... we can't get into that one, unfortunately. But...

473
01:05:40.150 --> 01:05:49.319
Dustin Schell: For the inventory reporting, yeah, there's a list of exemptions in there, and I would encourage you to look at that. It's at the tail end of Section 3123 of the regulations.

474
01:05:52.260 --> 01:05:53.690
Spencer Kelley: Alrighty, thank you very much.

475
01:05:54.020 --> 01:06:02.350
Spencer Kelley: Let's go back up to the top here. We have a question from Ronnie. Hi, could you please guide me to the right person to connect?

476
01:06:02.790 --> 01:06:10.390
Spencer Kelley: on Open Level 2 EV charging grants in California, specifically in San Diego area. Thank you for in advance.

477
01:06:11.820 --> 01:06:17.029
Claudia Eyzaguirre: This is a question about CEC funding programs.

478
01:06:17.610 --> 01:06:21.560
Claudia Eyzaguirre: We have quite a few funding programs that are open.

479
01:06:21.960 --> 01:06:36.200
Claudia Eyzaguirre: I would say send us an email with... we don't have your contact information, and we can direct you to the current open funding programs for, for EV charging grants, and thank you for your interest in participating.

480
01:06:38.120 --> 01:06:39.300
Spencer Kelley: Thank you very much.

481
01:06:40.490 --> 01:06:42.800
Spencer Kelley: Okay, let's move to the next written question.

482
01:06:45.020 --> 01:06:47.760
Spencer Kelley: Miriam, Penske.

483

01:06:48.450 --> 01:06:54.480

Spencer Kelley: Will there be a future forum to discuss policy-related questions and offer input? Question mark.

484

01:06:55.390 --> 01:07:01.940

Claudia Eyzaguirre: I'll answer this one. We do not have a specific forum available. The... we had a...

485

01:07:02.630 --> 01:07:17.400

Claudia Eyzaguirre: multi-year stakeholder process on developing these regulations that culminated with a one-year rulemaking process, nearly one-year rulemaking process, that had, you know, formal public comment and...

486

01:07:17.400 --> 01:07:25.229

Claudia Eyzaguirre: Stakeholder participation, and that is... now that the regulations have been adopted, that formal rulemaking has closed.

487

01:07:25.620 --> 01:07:29.849

Claudia Eyzaguirre: But saying that, myself and my colleagues.

488

01:07:30.430 --> 01:07:46.219

Claudia Eyzaguirre: Fuels and Transportation here in the Energy Commission are always, open to hearing, like, key issues and getting input from stakeholders and from industry, so please, do take the time to...

489

01:07:46.290 --> 01:07:58.370

Claudia Eyzaguirre: send in your, you know, your input to myself or to Dustin, or to... and I will say that every email that goes into our FTD

490

01:07:58.550 --> 01:08:09.639

Claudia Eyzaguirre: at energy.ca.gov is read by one of our staff very carefully and directed to several staff to review. So we take input very seriously and encourage you to continue to submit it.

491

01:08:15.460 --> 01:08:17.400

Claudia Eyzaguirre: Alright, let's go to the next one.

492

01:08:17.590 --> 01:08:21.390

Spencer Kelley: Thank you very much. Okay, the next question is from

493

01:08:22.340 --> 01:08:25.020

Spencer Kelley: Looks like a clarification from Josh.

494

01:08:25.220 --> 01:08:26.859

Spencer Kelley: Shannon with,

495

01:08:27.240 --> 01:08:43.149

Spencer Kelley: SJCE. To clarify my question earlier, what I got from your response was, organizations use

ratepayer funds to install DCFC that they manage, parentheses, or manage through a contractor, end parentheses.

496

01:08:43.439 --> 01:08:49.040

Spencer Kelley: can decide not to enforce these regulations. Period. If... That is true.

497

01:08:49.260 --> 01:08:54.589

Spencer Kelley: Is there any part of these regulations they must comply with? Question mark.

498

01:08:55.250 --> 01:09:14.310

Taylor Marvin: Yeah, so that's not correct. I would encourage you to read the definition of publicly or ratepayer-funded chargers in the regulation. So community choice aggregators that use ratepayer funding to fund EV chargers, those are explicitly covered by the regulations and must comply. The enforcement

499

01:09:14.640 --> 01:09:17.299

Taylor Marvin: Of said regulations is up to that funding entity.

500

01:09:21.660 --> 01:09:23.659

Spencer Kelley: Thank you very much, Taylor.

501

01:09:24.330 --> 01:09:25.490

Spencer Kelley: Okay.

502

01:09:25.660 --> 01:09:27.329

Spencer Kelley: We have two questions here.

503

01:09:28.000 --> 01:09:31.049

Spencer Kelley: Back-to-back from Penelope Botch.

504

01:09:31.670 --> 01:09:37.719

Spencer Kelley: Is there a specific format for the 15-minute interval data for non-

505

01:09:37.890 --> 01:09:49.750

Spencer Kelley: OCPP2.0.1 chargers, question mark. Is the 15-minute interval requirement also effective on 4-1-2026?

506

01:09:50.130 --> 01:09:51.060

Spencer Kelley: That's true.

507

01:09:51.779 --> 01:10:02.699

Claudia Eyzaguirre: So I'm going to hand this question to Dustin, but I first want to clarify. So, Penelope is talking about a specific format for 15-minute interval data, and that is for

508

01:10:02.949 --> 01:10:12.429

Claudia Eyzaguirre: That is determined by chargers that were installed, that are DC fast chargers, that are publicly funded, that were installed before

509

01:10:12.519 --> 01:10:26.829

Claudia Eyzaguirre: September 28th, 2026. And so they are required to submit 15-minute interval data. And now she's asking about a specific format for that. Dustin, can you comment on format?

510

01:10:27.920 --> 01:10:31.530

Dustin Schell: Yet, that intentionally does not require a specific format.

511

01:10:31.650 --> 01:10:34.980

Dustin Schell: That... that timeline was... was...

512

01:10:35.440 --> 01:10:41.270

Dustin Schell: intended to provide an on-ramp for OCPB implementation.

513

01:10:41.450 --> 01:10:50.039

Dustin Schell: And so, we didn't prescribe a particular format there, and the regulations are silent on the format of that 15-minute edible data.

514

01:10:50.950 --> 01:10:56.020

Dustin Schell: And it... the other question was answered earlier, but it is correct that... that...

515

01:10:56.150 --> 01:11:04.460

Dustin Schell: the requirement to begin collecting and retaining that data does start on the effective date of the regulations, which is April 1st, 2026.

516

01:11:05.000 --> 01:11:05.869

Claudia Eyzaguirre: Thank you.

517

01:11:07.920 --> 01:11:13.230

Spencer Kelley: Okay... Did we answer, Penelope's second question?

518

01:11:13.400 --> 01:11:13.959

Claudia Eyzaguirre: We did not.

519

01:11:14.050 --> 01:11:16.750

Spencer Kelley: Okay, alright, let me move to that one now.

520

01:11:17.590 --> 01:11:33.940

Spencer Kelley: Okay, the second question from Penelope Och. For Section 3130, how long after the data submission instructions are available will charging network providers need to make data available to third parties? Question mark.

521

01:11:35.210 --> 01:11:43.479

Claudia Eyzaguirre: This is a good question, because it gets to a lot of elements of the, data sharing,

522

01:11:43.840 --> 01:11:58.190

Claudia Eyzaguirre: that we'd like to clarify. So, the data sharing with third-party software developers, that is not, data, or there's no data or reporting that comes to the CEC.

523

01:11:58.260 --> 01:12:04.920

Claudia Eyzaguirre: for that purpose, right? That is going... that is making it available to third parties

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01:12:05.100 --> 01:12:23.899

Claudia Eyzaguirre: And as, again, to reference what I said in... spoke earlier during one of the slides, is that charging network providers may decide how to make, that data available via API. It's an application programming interface of their choice.

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01:12:24.110 --> 01:12:26.030

Claudia Eyzaguirre: And...

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01:12:26.370 --> 01:12:34.069

Claudia Eyzaguirre: The third part of the question, I hope I clarified that, is how long do they need to make the data available?

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01:12:34.280 --> 01:12:40.280

Claudia Eyzaguirre: Dustin, do you want to... do you want to clarify anything, but add to what I've said, or... and answer that last part?

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01:12:41.040 --> 01:12:44.809

Dustin Schell: Sure, yeah, so how long do they need to make it available? Would...

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01:12:45.050 --> 01:13:00.619

Dustin Schell: be for as long as the charger's operational. So, again, the applicability on that requirement is that it's publicly funded, it meets the definition of a publicly or ratepayer-funded charger, and it is also publicly available.

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01:13:00.700 --> 01:13:05.939

Dustin Schell: And the only other, maybe, thing that I would add on to what Claudia said would just be that

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01:13:06.410 --> 01:13:11.430

Dustin Schell: For the sort of, technical walks on the call today.

532

01:13:12.090 --> 01:13:29.680

Dustin Schell: We understand that folks have a very clear picture of what an API is when they hear the term API. We use the much broader definition that really is any machine-to-machine interface. So, the regulations are silent on how you achieve that interface to provide that data to third parties.

533

01:13:30.210 --> 01:13:33.090

Dustin Schell: And I think Claudio covered the rest.

534

01:13:33.750 --> 01:13:47.309

Claudia Eyzaguirre: Yeah. Thank you for, asking that last question, Penelope. We do want to clarify. We're always happy for an opportunity to clarify that. I believe, Spencer, have we gotten through all the questions?

535

01:13:47.310 --> 01:13:51.769

Spencer Kelley: I see, there's one more raised hand.

536

01:13:51.770 --> 01:13:52.610

Claudia Eyzaguirre: Oh, please.

537

01:13:52.610 --> 01:13:54.279

Spencer Kelley: for spoken Q&A.

538

01:13:54.380 --> 01:13:59.320

Spencer Kelley: From Lisa... McGee...

539

01:14:00.090 --> 01:14:03.540

Spencer Kelley: Lisa McGee, I'm unmuting you now, please state your name and affiliation.

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01:14:07.300 --> 01:14:25.540

Lisa McGhee: Lisa McGee, Tom's Truck Center. I have some follow-up questions. I was... had to go away for a little bit, so I'm not sure if some of these things might have been covered, so I apologize if that's the case, but on the third party, is there a definition for the third party? And in the presentation, I heard,

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01:14:25.670 --> 01:14:34.430

Lisa McGhee: a statement regarding 6 years or until it's uninstalled. And so, I want to kind of unders...

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01:14:34.680 --> 01:14:37.549

Lisa McGhee: And the reasoning behind...

543

01:14:38.110 --> 01:14:57.229

Lisa McGhee: the six-year period, I'm assuming there's a reason for that. And then on the uninstall, if there's uninstalled between the difference of non-working, if there's some way to handle that in that reporting, which I know you guys talked about.

544

01:14:57.450 --> 01:15:07.580

Lisa McGhee: think there was a repair or something like that, I don't recall, but I want to kind of understand how to handle those behaviors. And then, on the 15-minute data.

545

01:15:09.130 --> 01:15:12.120

Dustin Schell: Lisa, maybe we can take these one at a time.

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01:15:12.120 --> 01:15:13.600

Claudia Eyzaguirre: Let's take these first years.

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01:15:13.600 --> 01:15:14.909

Dustin Schell: remember all that, yeah.

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01:15:14.910 --> 01:15:16.340

Claudia Eyzaguirre: So, our first one...

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01:15:16.340 --> 01:15:17.320

Lisa McGhee: You got it.

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01:15:17.320 --> 01:15:23.909

Claudia Eyzaguirre: Let's go on the first one. The first one was... question was on, we'll take them as part.

551

01:15:24.050 --> 01:15:37.999

Claudia Eyzaguirre: was on, until a charger is uninstalled. Dustin, do you have in front of you where we can point to what an... we have... the regulations speak to what an uninstalled charger is?

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01:15:38.570 --> 01:15:39.950

Claudia Eyzaguirre: So, the.

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01:15:39.950 --> 01:15:42.150

Dustin Schell: Give me just a second to get there.

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01:15:42.150 --> 01:15:50.310

Claudia Eyzaguirre: Yeah, so the regulations give, detail, pretty clear detail on what an uninstalled charger is, and when it becomes

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01:15:50.420 --> 01:16:02.240

Claudia Eyzaguirre: It meets the criteria of uninstalled, and at that point, it no longer has to, you know, it doesn't have to report reliability.

556

01:16:02.540 --> 01:16:08.290

Dustin Schell: it... so I am pasting the definition of uninstalled into the, the chat.

557

01:16:08.450 --> 01:16:24.720

Dustin Schell: I can't do it in the Q&A unless somebody puts a question in the Q&A, that's just the way it's spelled, but that definition is in the chat. And this gets to the other question that Lisa asked about the 6 years and where did that come from. That was prescribed in, like, in legislation. AB2061 spelled that out.

558

01:16:24.780 --> 01:16:37.140

Dustin Schell: We did put an option for uninstalled in there, because we didn't want to establish a de facto minimum period of operation, especially in the scenario where it's like.

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01:16:37.140 --> 01:16:46.579

Dustin Schell: potentially a pilot program, the CDC has a lot of those, et cetera, et cetera. There's a lot of scenarios where we didn't want there to be a de facto minimum period of operation.

560

01:16:46.620 --> 01:16:51.780

Dustin Schell: Which is where the concept of uninstalled comes from,

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01:16:51.930 --> 01:17:03.049

Dustin Schell: And then that definition itself does... I think there was a sort of... one of the things you were hinting at is, well, what if it's just broken and not actually uninstalled? That definition does seek to address that as well.

562

01:17:03.610 --> 01:17:07.100

Lisa McGhee: Oh, good, but it... so it didn't come through in the chat, just for whatever it's worth.

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01:17:07.100 --> 01:17:08.959

Claudia Eyzaguirre: We're fixing that right now, sorry.

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01:17:08.960 --> 01:17:10.970

Dustin Schell: Oh, yep, sorry, I booed.

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01:17:10.970 --> 01:17:11.530

Lisa McGhee: Right.

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01:17:11.530 --> 01:17:12.010

Claudia Eyzaguirre: Yep.

567

01:17:12.010 --> 01:17:17.099

Lisa McGhee: And... and... And... so that took care of...

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01:17:17.540 --> 01:17:18.360

Claudia Eyzaguirre: Third Party.com.

569

01:17:18.360 --> 01:17:19.230

Lisa McGhee: definition.

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01:17:19.230 --> 01:17:27.860

Claudia Eyzaguirre: In 6... yes. There is... oh, that is a good one, actually, Lisa. I have not been asked that one before. Do we have a third-party definition? I have to... give me a.

571

01:17:27.860 --> 01:17:37.609

Dustin Schell: We don't... we don't. We did go with the common understanding, but I... I would have to defer to the lawyers on that particular one. I believe that that's a,

572

01:17:38.300 --> 01:17:48.699

Dustin Schell: exists somewhere. I apologize. I could try to circle back with you on that one, but that is 100%, lawyer territory, of which I am not.

573

01:17:49.130 --> 01:17:56.100

Lisa McGhee: Okay, so then if we could just get what... what... you guys are pointing to something, so if we could get clarity on what you're pointing to, because I think

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01:17:56.190 --> 01:18:07.019

Lisa McGhee: My takeaway on this, you know, is a little better than it was in the beginning. We're a fleet operator, and I think between these new regulations, between CTEP,

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01:18:07.020 --> 01:18:16.380

Lisa McGhee: this reliability, the low-carbon fuel standards requiring, now a validator, right? You've got these multiple, multiple regulations.

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01:18:17.080 --> 01:18:31.530

Lisa McGhee: that are only in our state, super burdensome, and while I think the light-duty car, and I think the technology certainly deserves, this oversight in order to make sure we've got the reliability that we all need.

577

01:18:31.740 --> 01:18:47.560

Lisa McGhee: you know, on the medium heavy duty side versus the light duty side, you know, we've got two different types of requirements on those types of sectors that need to serve those types of vehicles, and so I worry a little bit... I worry more about this than maybe...

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01:18:48.150 --> 01:18:57.400

Lisa McGhee: I take away today, which I think I'd like to just go ahead and state it, you know, it seems like you've got a lot of things that are silent.

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01:18:57.580 --> 01:19:08.920

Lisa McGhee: And so silent means, I'm assuming it doesn't either exist or it's left for interpretation, but you guys did that for purpose, and so I want to understand, why did you guys leave

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01:19:08.920 --> 01:19:19.389

Lisa McGhee: the violation for enforcement silent. And then you left other things silent. There's got to be a reason, so I want to understand what your guys' perspective was.

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01:19:19.860 --> 01:19:31.440

Claudia Eyzaguirre: Lisa, thank you for putting that into a... for the question there. So, when the CEC is creating regulations, this is different from when we create funding programs. Regulations?

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01:19:31.760 --> 01:19:47.039

Claudia Eyzaguirre: We're an agency, we're making regulations. Regulations are carefully governed and prescribed by, an Office of Administrative Law. There's, and these, regulations were,

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01:19:47.520 --> 01:20:02.979

Claudia Eyzaguirre: We're, we're, we were... there's authorizing statutes that directed these regulations, and that's really where, where we took action, is where the CC was directed by the legislature to make these regulations.

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01:20:03.200 --> 01:20:05.939

Claudia Eyzaguirre: And so that's where, these come from.

585

01:20:06.610 --> 01:20:10.830

Lisa McGhee: And then, is there a reason for the purpose of silent? Things that are silent?

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01:20:10.950 --> 01:20:29.790

Claudia Eyzaguirre: I mean, I think what I was getting to there is just with silent... is just the, you know, with regulations, we have what's written there, and what's not... we don't... you can't interpret or... well, we don't ever interpret as staff, but what's not... we don't interpret or enforce what's not written there.

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01:20:29.790 --> 01:20:34.980

Lisa McGhee: Okay, I, I, I get it, I get it, I get it, that's, it's, it's a normal, it's a normal...

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01:20:35.130 --> 01:20:39.479

Lisa McGhee: Process and regulation, so it's new, and it's going to be formulated through

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01:20:39.770 --> 01:20:47.230

Lisa McGhee: procedures, right? So, okay, I'll take it for that and my takeaway. And then the other follow-up questions I had relate to

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01:20:47.420 --> 01:20:54.370

Lisa McGhee: I think two things I'm trying to go into, the smart meter versus the 15-minute data requirement.

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01:20:55.180 --> 01:21:11.379

Lisa McGhee: and then the utilities that have new real-time tariff rates that theoretically connect to, the utilities with 15-minute data or hourly data. So, is there a current...

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01:21:11.530 --> 01:21:20.790

Lisa McGhee: Workaround or automatic third-party representation through the utility when you're in a real-time tariff rate.

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01:21:21.120 --> 01:21:24.629

Lisa McGhee: And, or is there an exception... oh, go ahead, I'll stop.

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01:21:25.160 --> 01:21:33.239

Claudia Eyzaguirre: So, you know, when we get into territory of utilities and their tariff rates that's really outside of this regulation,

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01:21:33.750 --> 01:21:39.799

Claudia Eyzaguirre: That is not something that this regulation is requiring or speaks to.

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01:21:39.930 --> 01:21:41.960

Claudia Eyzaguirre: Does anyone... any of my colleagues

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01:21:42.090 --> 01:21:44.920

Claudia Eyzaguirre: On the... in the meeting, want to add to that?

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01:21:46.070 --> 01:22:01.579

Dustin Schell: Yeah, Lisa, that's varying into very, very, very, very technical territory, in between, like, drawing parallels between real-time tariffs and how those are communicated to a charger directly, or to a charging network provider.

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01:22:01.580 --> 01:22:07.689

Dustin Schell: versus how chargers communicate back with charging network providers.

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01:22:08.260 --> 01:22:18.229

Dustin Schell: And that would be sort of the link in the chain where those statuses, those 15-minute interval statuses, would be collected. So...

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01:22:18.510 --> 01:22:27.730

Dustin Schell: you know, that would require interrogation of every specific setup to be able to answer your question fully, and I just can't...

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01:22:28.020 --> 01:22:28.549

Dustin Schell: I don't have.

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01:22:28.550 --> 01:22:34.149

Lisa McGhee: Okay, that's fine. But want to potentially satisfy the third party if the utility's a third party?

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01:22:38.220 --> 01:22:39.240

Lisa McGhee: Or not.

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01:22:39.240 --> 01:22:46.730

Dustin Schell: Yeah, that's veering into legal interpretations that I don't think we can get into. We just, yeah, we have limits on what we can get into on that stuff.

606

01:22:46.730 --> 01:22:59.370

Lisa McGhee: I get it, there's lots of things to learn still, so I get it. I'm just trying to make sure I can connect some dots that could be perceived, but if they're not able to be answered, then they're not. So then, is there any interpretation on using a smart

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01:23:00.150 --> 01:23:18.750

Lisa McGhee: Which is another workaround for installing chargers on existing facilities, as long as they've got a smart meter. And again, that's technical as it relates to some of the rules and regulations through the CPUC proceedings, but wondering if that... if that... if that... if a smart meter that's... a smart meter that's connected...

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01:23:18.750 --> 01:23:38.790

Claudia Eyzaguirre: So, Lisa, I'm going to interrupt you, just because we can't comment on a CPUC proceeding and what they require, right? We can really comment on what these regulations require, and they are pretty clear. We have a data dictionary with hourly charging specification formats that need to be... that need to be reported.

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01:23:38.790 --> 01:23:39.789

Claudia Eyzaguirre: to the season.

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01:23:39.790 --> 01:23:42.340

Lisa McGhee: Charger on a smart meter required to be reporting?

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01:23:43.350 --> 01:23:56.770

Claudia Eyzaguirre: If any charger that meets the definitions, the criteria of applicability underneath, inventory, reliability and uptime.

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01:23:56.960 --> 01:24:15.859

Claudia Eyzaguirre: you know, data sharing or customer mechanism to report outages would have to comply. So it's a... the criteria for applicability is based on the charger characteristics that we listed earlier. But I really want to thank you for all your questions, and

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01:24:16.160 --> 01:24:29.570

Claudia Eyzaguirre: please feel like you can reach out to either Dustin and I over email to sort of see if we can go further, and in some cases we can't, because we can't give a case-by-case advice, but we will do our best to try to, help you through

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01:24:29.680 --> 01:24:34.420

Claudia Eyzaguirre: the CEC portion of new regulations.

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01:24:36.250 --> 01:24:37.220

Lisa McGhee: Okay, thank you.

616

01:24:37.550 --> 01:24:38.320

Claudia Eyzaguirre: Thank you.

617

01:24:38.890 --> 01:24:40.149

Spencer Kelley: Thank you very much.

618

01:24:40.540 --> 01:24:46.130

Spencer Kelley: I see one more... written question in the, Q&A.

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01:24:46.560 --> 01:24:48.330

Spencer Kelley: Let's go through that quickly.

620

01:24:48.600 --> 01:24:57.349

Spencer Kelley: Question's from Skill Patrick. Can you clarify the definition for a rate-payer-funded charger? Question mark.

621

01:24:57.790 --> 01:25:01.209

Spencer Kelley: Would a station installed by a CCA

622

01:25:01.460 --> 01:25:04.970

Spencer Kelley: funded for installation by a CEC grant.

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01:25:05.250 --> 01:25:16.290

Spencer Kelley: But the, operated and maintained partially using CCA ratepayer dollars be considered a ratepayer-funded charger by the CEC.

624

01:25:16.450 --> 01:25:17.290

Spencer Kelley: Question mark.

625

01:25:18.200 --> 01:25:26.610

Claudia Eyzaguirre: Let me answer that first section. So, the definition of a ratepayer-funded charger is in our definition sections. We talk about,

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01:25:26.790 --> 01:25:33.270

Claudia Eyzaguirre: And is, it's quite a long, detailed, definition,

627

01:25:33.430 --> 01:25:40.780

Claudia Eyzaguirre: And I really, urge you to go to that definition and, and read it carefully.

628

01:25:41.550 --> 01:25:56.489

Claudia Eyzaguirre: for the second portion, you know, if it's funded by a... I think you write there that it's funded by a CEC grant, that would definitely be a publicly funded grant charger in that case.

629

01:25:58.270 --> 01:26:14.869

Dustin Schell: Yeah, I... just to add a little bit, I tried to paste the definition of public care funded into the chat, and it's too long, and it won't let me, so I apologize for that. It is definition number 42 in the definition sections of the regulations. Again, we linked the live

630

01:26:14.870 --> 01:26:23.120

Dustin Schell: Westlaw regulations, where they are actually in the formal California Code of Regulations in Claudia's presentation, so I'd highly encourage you to

631

01:26:23.470 --> 01:26:28.890

Dustin Schell: look at that. I would just say that community choice aggregators

632

01:26:29.070 --> 01:26:36.699

Dustin Schell: are... are included in that definition, to kind of touch back on... on... on that question. So, please...

633

01:26:36.870 --> 01:26:39.579

Dustin Schell: Go and look at the definitions there.

634

01:26:39.690 --> 01:26:43.559

Dustin Schell: But that CCAs are called out specifically in that definition.

635

01:26:47.500 --> 01:26:48.440

Claudia Eyzaguirre: Alrighty.

636

01:26:48.440 --> 01:26:49.759

Spencer Kelley: Thank you very much.

637

01:26:50.360 --> 01:26:56.520

Spencer Kelley: Okay, I'm not seeing any more written questions or raised hands.

638

01:26:57.350 --> 01:27:03.649

Spencer Kelley: Maybe we can, you know, Take, like, 20 to 30 seconds here, and then we can move forward.

639

01:27:37.320 --> 01:27:42.619

Spencer Kelley: I'm not seeing any more questions. Feel free to resume the presentation.

640

01:27:43.410 --> 01:28:00.269

Claudia Eyzaguirre: Well, with that, I want to thank you all for participating. Thank you for your questions, which help clarify things, not just for your own entity, your agency, or your company, but for the larger public as well. And again, here is the website.

641

01:28:00.270 --> 01:28:20.220

Claudia Eyzaguirre: Where we have information on the EV charger data and reliability Standards, and contact information, and all of this, both this presentation and these slides will be posted, on the CEC website shortly. So, with that, I think we can conclude, and thank you all for participating.