

NAFCC - Corridor Council

AGENDA & Notes for June 15, 2023



Call started at 1:00pm ET / 10am PT. Meeting held virtually via Zoom.
Zoom managed by Overly. Notes taken by Lopez, Farmer.

Learn about the NAFCC at www.CorridorCouncil.org.

Attendees (49):

STATE DOT & RELATED ORGANIZATION REPRESENTATIVE

AL NEVI = Shonda Gray	MO DOT = Tom Honich	TX DOT = Michael Chamberlain, Ryan Granger
AL ADECA = Brian Miller	NC DENR = Brian Phillips	Utah DOT = Lyle McMillan
AR DOT = Aaron Pineda	OK, SWODA (RTPO) = Julie Sanders, Kyle Henry	VA DOT = Erin Belt
KS DOT = Brian Gower, Tami Alexander	TN DOT= Matt Meservy, Eric Jackson	<i>Unknown = John Schillin</i>
LA DOTD = Kevin Reed		

CLEAN CITIES COALITIONS & FHWA/DOE-CLEAN CITIES REPRESENTATIVES

AL = Michael Staley, Shannon Tillman	MN = Lisa Thurstin	TX = Amy Hodges
AR = Jason Willey, Barrett Hunnicutt	MO = David Albrecht	VA = Alleyn Harned, Ellie Dambra, Alex Chizmadia
FL = Alisha Lopez, Elizabeth De Jesus, Alex Kolpakov	NC = Annie Lee, Megan Upchurch, Sara Nichols, Ian Baillie	WI = Lorrie Lisek
IA= Abbie Christophersen	NY = David Keefe, Rita Ebert	WV = Kelly Bragg
IN = Carl Lisek	OK = Eric Pollard, David Frick	DOE Clean Cities NETL = Jordan Foster
KS = Jenna Znamenak	SC = Rene Kelly, Evan Renshaw	
LA = Tyler Herrmann	TN = Jonathan Overly, Valerie Farmer	

MAIN PURPOSES OF THE COUNCIL

1. Fully support DOT and FHWA Alternative Fuel Corridor objectives **including ultimate build-out of stations;**
2. Facilitate **visually consistent** DOT/FWHA Alternative Fuel Corridor Signage Programs across all our states, **included for both Identification (corridor) and Directional (wayfinding) Signage;** and
3. Establish regular calls and meetings with involved state DOT officials to develop criteria for developing effective Alternative Fuel signage programs AND build-out of alt-fuel stations.

UP FRONT

1. Please make your Zoom name your name (to aid our notetakers, Alisha [FL] and Valerie [TN]) is shown for you.
2. We are recording this webinar.
3. Coalitions + DOT and other state entity reps - **Is your state included in our participating states map?** (Go to map on homepage) **Put your name/company in the Chat if not!** (JO)
>> Good discussion here.

AGENDA

1. **Thoughts from state DOTs on how NACS (Tesla connector) might impact NEVI releases?** Has there been any changes on guidance from JO/FHWA? (JO)
2. **2/16/23 Memorandum on MUTCD** - (MS)
(https://mutcd.fhwa.dot.gov/resources/policy/signing_alt_fuel_corridors/alt_fuels_crrdr_signs.pdf)
 - a. Ensuring everyone knows that these only go on “Corridor Ready” interstates.
 - b. States need to TALK TO EACH OTHER about using END or BEGIN signs! This is important. The traveler just needs to know that there is (or is not) another station within the distance based on the fuel.
 - c. Has anyone seen the guidance suggesting that one type of sign is needed before the other? (i.e., directional must be installed before Corridor ID can be)
3. **Round 7 Alternative Fuel Corridor Nominations** (due 6/21/23). Which states are planning to nominate new corridors? (JO)
4. **Samples of Gap Analysis for NEVI** (JO) - referenced separate PPT that had 5 state examples included.
5. **North Carolina’s “Matchmaking” Process** (states utilizing “partnering systems” to connect entities that might need one another’s help to have all the team members they need for a full proposal)
6. **Definition of a “Superstation”**

NOTES

States that are not shown on the map: Erin – VA (VDOT)

NACS Discussion

- Michael Chamberlain (TxDOT)
 - o Think CCS is going to go away too (to Overly’s comment)
 - o Requiring CCS and NACS
 - o Doesn’t care about CHAdeMO
 - o Every port will require two connectors
 - o Dual-port units would require 4 connectors
- Tami Alexander (KDOT)
 - o Requiring one CHAdeMO per station
 - o 60% of vehicles will be NACS – so at least half of them should have that connector
 - o Debating on requiring
- Ryan Granger (TxDOT)
 - o “From Politico Pro on Shailen Bhatt's testimony yesterday:
 - o "Charging confusion: Bhatt acknowledged the challenge in setting requirements for federally funded EV chargers as major automakers converge on Tesla’s charging standard, a rival to the technology picked by FHWA just months ago. “It is great to see private sector coming together and working to get a standard — I think that’s part of our challenge as we’re rolling out this new program is we’re making live decisions and the world is moving and evolving as we move forward,” Bhatt told senators.

- Bhatt didn't indicate whether the agency would consider altering its requirements. FHWA has said it welcomes the installation of Tesla connectors using public dollars, as long as the rival CCS connectors are installed at the same station. But industry experts have said the government should choose a side to avoid prolonging a damaging standards war. Bhatt said FHWA is reassured by the availability of adapters, which mean that "if for some reason the industry moves in a certain direction, this is not a very finite, like, 'You either have to choose one or the other right now.'"
- Alleyn Harned (VA)
 - Explore megawatt charging that uses existing standards
 - Avoid the "bizarre" connectors
- Tyler Herrmann (LA)
 - Seems like adding connectors will not change the amount of vehicles served
 - Seems like a slight misuse of the funding
 - Timeline? Is it going to push the program back further?
 - § MC: Too early to tell
 - Not guaranteed that all others are going to offer/be on board with NACS

Signage Law

- Does guidance know if you're supposed to do it from the perspective of your state? Ask clean coalition staff to help with this.

Round 7 nominations

- Tami Alexander - Hybrid corridor
- Matt Meservy - Not adding any new interstates, but added H2 to current corridors
- Michael Chamberlain - 3 new nominations
- Kelley - Extended hydrogen corridor
- Alleyn (VA) - Comprehensive port 2 WV hydrogen application
- Lisa (MN) - Not submitting any new nominations, EV only
- Kevin Reed (LA) - One route for EV pending
- Carl Lisek (IN) - Adding several secondary routes – EV only
- Abby (IO) - Likely no new – freight corridors haven't looked into yet
- Alisha (SFRPC) - Submitting for EV freight
- Erin (VDOT) - Evaluate quickly freight EV corridor (3?)
- Eric (OK) - Adding hydrogen, some extensions of EV corridors

Update on other states moving into round one











- GA - Look at the interconnection with other states
- UT - Identified site areas – not specific sites (within one mile of the marker is suitable)
- TX -
 - Going to see a lot more gray in urban areas
 - Blue - steady areas
 - Preloaded that the study areas are in the disadvantaged areas
- TN -
 - Approaching gaps by looking at it potential of the exits along these gaps
 - US 64 – no dots – uncontrolled access (no specific places could be identified)
 - 64 is going to be a set of tough gaps to close

Matchmaking process

- Annie Lee - NC put out a session where entities can offer their services and “speed date” seeing if other entities want to buy others services. <https://www.ncdot.gov/initiatives-policies/environmental/climate-change/Pages/national-electric-vehicle-infrastructure-program.aspx>
- Lyle (UT)
 - o Utah's partnering directory sign up form <https://forms.gle/4fMhGBcKdNau8qFj7>
 - o Trying to facilitate partnering (got the idea from CO)
- Chamberlain (TXDOT)
<https://ftp.txdot.gov/pub/txdot/get-involved/statewide/EV%20Charging%20Plan/EVChargingCompanyList.pdf>
 - o By 2027 – 12.6 million battery packs/year. There are only 12 million vehicles sold in the us per year (1 to 1 replacement)
- Reed (LA DOTD)
 - o Contact list:
http://www.sp.dotd.la.gov/layouts/download.aspx?SourceUrl=/Inside_LaDOTD/Divisions/Operations/Electric-Vehicle/webdocs/EV%20Infrastructure%20Contacts.xlsx
- Chamberlain (TxDOT)
 - o Would love to put 500 kWh in every sight but too expensive
 - § Want a phase two of NEVI
- Meservy (TDOT)
 - o We are trying to create sites that give the user the best possible experience
 - o Potentially with this new wrinkle of tesla coming into the mix – might be some potential looking at 5-6 stations that have independence
 - o Loos bonus points for sites that offer the _____
- Alleyn (VA)
 - o Emphasize CCS standard
 - o Rarely had DCFC installed that had two ports
 - o No indications VA would prohibit NACS
 - o NEVI – comply with federal regulations (which are for CCS)
- Lisa (MN) - Worried about used EV market

REFERENCED INFORMATION & WEBSITES

1. Loren McDonlad's “EVAdoption” website that is tracking companies that are joining in supporting or using the NACS: <https://evstation.com/tesla-nacs-charger-adoption-tracker/>
2. Showing differences between NACS and CCS1 (*they are NOT to scale in the below image!*)

Current type	Region			Tesla	
	Japan	North America	Europe, rest of world inc. Tesla 3 & Y	Tesla: Models S & X Rest of world	Tesla: (plug) N. America
AC					
Plug name:	Type 1 (J1772)	Type 1 (J1772)	Type 2 (Mennekes)	Modified* Type 2	NACS
DC					
Plug name:	CHAdeMO	CCS1	CCS2	Modified* Type 2	NACS

3. Partnering forms or lists:

- a. UDOT Partnering Form - <https://docs.google.com/forms/d/e/1FAIpQLSetNQPvHTC3CH2cF8DqQehS1xVUIhCjq-zbT7IHGs2oCYpK9A/viewform?pli=1>
- b. UDOT Partnering List results - https://docs.google.com/spreadsheets/d/12CfAph_P-Xt_FL-p2RNN9Tuh_gP3ms_l/edit#gid=1370231773
- c. TXDOT Partnering List - <https://ftp.txdot.gov/pub/txdot/get-involved/statewide/EV%20Charging%20Plan/EVChargingCompanyList.pdf>
- d. TDOT Partnering Form - <https://forms.office.com/pages/responsepage.aspx?id=v75F83ENN0OSgSS5QWFsNpsEzEYX0XxPoNuL6AAAtFKVUN0E5MUZUTVJROTAyNzRDQ05RWDZMRjVTWi4u>

CHAT

00:13:20 Erin Belt (VDOT): VDOT is Virginia DOT - just in case you mean me.


00:16:07 Alleyn Harned: Tyler your audio is not 100%

00:18:41 Ryan Granger (TxDOT): From Politico Pro on Shailen Bhatt's testimony yesterday:

"Charging confusion: Bhatt acknowledged the challenge in setting requirements for federally funded EV chargers as major automakers converge on Tesla's charging standard, a rival to the technology picked by FHWA just months ago. "It is great to see private sector coming together and working to get a standard — I think that's part of our challenge as we're rolling out this new program is we're making live decisions and the world is moving and evolving as we move forward," Bhatt told senators.

— Bhatt didn't indicate whether the agency would consider altering its requirements. FHWA has said it welcomes the installation of Tesla connectors using public dollars, as long as the rival CCS connectors are installed at the same station. But industry experts have said the government should choose a side to avoid prolonging a damaging standards war. Bhatt said FHWA is reassured by the availability of adapters, which mean that "if for some reason the industry moves

00:21:36 rgranger: I do not expect any additional guidance on the matter. Here's a C-SPAN link: <https://www.c-span.org/video/?528716-1/transportation-official-testifies-implementinginfrastructure-laws>.

00:21:54 Jason Willey AR CC - AR SEO: Reacted to "I do not expect any ..." with 

00:23:12 Alleyn Harned: Thank you Michael C regarding the 2+ mw

00:24:56 Tami Alexander, Kansas DOT: Cost considerations are part of the Kansas discussions as to how many NACS we will require

00:26:44 Alleyn Harned: I would assume adapters may be best practice as with extra ports may come 2x vandalism.

00:26:52 Alleyn Harned: (Extra cables)

00:31:53 Lisa Thurstin-MN Clean Cities: MN has "begin" as the entire corridor was not ready when we submitted in round 1 or 2.... Signage is not at beginning of state line.

00:31:58 Carl Lisek: INDIANA IS ADDING SEVERAL US HIGHWAYS

00:32:08 Jason Willey AR CC - AR SEO: Arkansas is submitting for HYD, LPG, CNG. No more EV AFCs

00:32:14 Lyle McMillan - Utah DOT: Utah may nominate hydrogen corridors on the interstates

00:32:36 Lisa Thurstin-MN Clean Cities: MN is not submitting any new nominations - still EV only.

00:33:08 Kevin Reed: LA is adding one route for EV pending. It is a route that was mistakenly omitted from Round 6 nominations

00:34:27 Abbie Christophersen: Iowa - Likely none new, but there is freight corridors as well that we haven't looked into

00:34:31 Sara Nichols: LOSCVC may nominate, but NCDOT indicated they will scrutinize

00:35:22 Alisha Lopez: SFRPC is submitting for EV freight

00:37:30 Eric Pollard, Central Oklahoma Clean Cities: Oklahoma DOT nominating hydrogen interstate corridors (maybe a couple US Highways in Eastern OK as well), some extensions of EV corridors


00:38:21 Kelly Bragg: Gotta split. Thanks, all!

00:38:30 Tami Alexander, Kansas DOT: Replying to "Oklahoma DOT nominat..." Eric, is OK nominating I-35 for hydrogen?

00:38:39 Eric Pollard, Central Oklahoma Clean Cities: Replying to "Oklahoma DOT nominat..." That is my understanding

00:39:20 Tami Alexander, Kansas DOT: Replying to "Oklahoma DOT nominat..." KDOT is also nominating I-35 for hydrogen. Would you like to swap letters of support?

00:40:22 Erin Belt (VDOT): Especially with the updated NEVI guidance requiring stations within 25-miles of state borders

00:40:27 Abbie Christophersen: Reacted to "Especially with the ..." with 

00:41:21 Eric Pollard, Central Oklahoma Clean Cities: Replying to "Oklahoma DOT nominat..."
@Tami Alexander, Kansas DOT ODOT is the lead and we haven't really been involved that much, Jared Schwennesen jschwennesen@odot.org is the staff lead at ODOT

00:43:41 Tami Alexander, Kansas DOT: Reacted to "@Tami Alexander, Kan..." with 

00:50:33 Lyle McMillan - Utah DOT: Utah's partner directory
https://docs.google.com/spreadsheets/d/12CfAPh_P-Xt_FLp2RNN9Tuh_gP3ms_l/edit#gid=1370231773

00:50:41 Matt Meservy: <https://forms.office.com/g/R2JHd1qkna>

00:51:23 Annie Lee: <https://www.ncdot.gov/initiativespolicies/environmental/climate-change/Pages/national-electric-vehicleinfrastructure-program.aspx>

00:51:27 Lyle McMillan - Utah DOT: Utah's partnering directory sign up form
<https://forms.gle/4fMhGBcKdNau8qFj7>

00:52:01 Abbie Christophersen: We have a spreadsheet as well for site host and services, only sent to individuals that fill it out

00:52:16 Abbie Christophersen: Replying to "We have a spreadshee..." Iowa :)

00:52:25 Annie Lee: North Carolina's information, recording and database registration

00:53:15 Michael Chamberlain (TxDOT): <https://ftp.txdot.gov/pub/txdot/get->

<involved/statewide/EV%20Charging%20Plan/EVChargingCompanyList.pdf>

00:53:58 Michael Chamberlain (TxDOT): Colorado is full of good ideas.

00:54:02 Michael Chamberlain (TxDOT): And Oklahoma.

00:54:08 Kevin Reed:

http://wwwsp.dotd.la.gov/layouts/download.aspx?SourceUrl=/Inside_LaDOTD/Divisions/Operations/Electric-Vehicle/webdocs/EV%20Infrastructure%20Contacts.xlsx

00:54:27 Kevin Reed: Louisiana's EV contact list.

00:55:22 Annie Lee: All that I can say for NC is that I know the database creation has closed. The goal was to facilitate conversation but I haven't heard about fruit yet. Maybe Megan or Sara can speak to that.

00:57:35 Michael Chamberlain (TxDOT): Tesla has a 48 unit location now.

00:57:39 Michael Chamberlain (TxDOT): 12 MW.

00:57:51 Michael Chamberlain (TxDOT): At a Bucees in Temple.

01:00:03 Jason Willey AR CC - AR SEO: Replying to "At a Bucees in Templ..." There's a good video on YouTube of that location

01:04:35 Abbie Christophersen: Oh yes, we have had solar vendors come to the director of my agency and say they were "NEVI compliant solar" 😊

01:10:31 Sara Nichols: 1 time Jonathan :)

01:11:15 Lisa Thurstin-MN Clean Cities: I worry about used ev market.

01:12:37 Alleyn Harned: Reacted to "I worry about used e..." with 👍

01:12:53 David Albrecht Kansas City Clean Cities: @Lisa Thurstin - Especially with Americans holding onto their cars longer than ever before.

01:13:06 Alleyn Harned: NEVI requires credit cards not plug and charge

01:13:59 David Albrecht Kansas City Clean Cities: Well, yeah, they may not much of their information out their digitally, but to that . . . well, good luck.

01:14:35 Eric Pollard, Central Oklahoma Clean Cities: Reacted to "And Oklahoma." with 👍