



# Regional Energy Resource Council

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October 14, 2020

Virtual Meeting

# Welcome

- RERC Chair, Jennifer Mundt
- TVA Designated Federal Officer, Joe Hoagland
  - Senior Manager Althea Jones
- RERC Meeting Facilitator, Jo Anne Lavender

# RERC Virtual Meeting

- **This is the third meeting of the 4<sup>th</sup> term of the RERC**
- **This meeting is being recorded.** A link will be provided on the TVA RERC Website ([tva.gov/rerc](http://tva.gov/rerc)).
- **We welcome members of the public attending and who are in listen only mode.** For those that pre-registered to make public comments, the meeting host will unmute your line at that time. Written comments are always welcomed ([tva.gov/rerc](http://tva.gov/rerc))
- **RERC Members are able to mute and unmute their own line.** Please keep yourself on mute until you wish to speak. RERC Members may use the raise hand function to be recognized for questions or comments. Please turn off your video when presentations are being made.

# Safety Moment - Daylight Savings Time Ending

It takes 5-7 days to adjust for the 1-hour time change causing people to experience grogginess. Research shows that the disruption to the internal clock can cause increased car accidents, heart attacks, stroke, weight gain, anxiety and workplace injuries.

## Suggestions:

- Stay alert around schools, playgrounds and parks during evening commute
- Watch for the low setting sun when driving west in the afternoon
- Exhaustion and fatigue are more common in teenagers and they need more rest
- Avoid the seasonal blues by getting 15 min. of early morning sunlight before 10 a.m. daily and exercise everyday that first week

# Virtual RERC Meeting Agenda – October 14, 2020

- 9:30** Welcome, Safety Moment, Introductions, TVA Update
- 10:35** *Break*
- 10:45** TVA Electric Vehicle Strategy
- 11:30** Discussion
- 12:05** *Lunch Break – 55 minutes*
- 1:00** Public Comments
- 1:30** RERC Perspectives
- 2:30** *Break*
- 2:50** Review and Vote on Advice Statement
- 3:15** Next Meeting Date
- 3:30** Adjourn

# Term 4 RERC Members – Introductions

- Name
- Position, Organization
- What has been a positive in 2020 for you because of or in spite of the pandemic?

**Michael Butler**

Tennessee Wildlife Federation

**Dr. Bill Carswell**

University of Alabama, Huntsville  
(ret'd)

**Erin Gill**

City of Knoxville

**Rodney Goodman**

Habitat for Humanity

**Dana Jeanes**

Memphis Light, Gas, and Water

**Matt Largen**

Williamson, Inc.

**Jonathan Levenshus**

Sierra Club

**Peter J. Mattheis**

Tennessee Valley Industrial Committee

**Jennifer Mundt, RERC Chair**

State of North Carolina

**Alice Perry**

State of Mississippi

**Doug Peters**

Tennessee Valley Public Power  
Association

**Dr. Kari Babski-Reeves**

Mississippi State University

**Patrice Robinson**

Memphis City Council

**David Salyers**

State of Tennessee

**Charles Snavelly**

Commonwealth of Kentucky

**Clay Walker**

NETWORKS Sullivan Partnership

**John Warren**

Commonwealth of Virginia

**Lloyd Webb**

Olin Chlor Alkali

# Recap of RERC Term 4 Meeting 3 – June 23, 2020

Subjects covered included:

- Internal and external impacts of COVID 19 and TVA responses;
- TVA Valley Partner update;
- Energy System and COVID 19 impacts;
- A community member shared his views on TVA coal ash storage and the need to increase renewables in the portfolio;
- You shared the impacts of the virus on your organizations and identified challenges TVA may face in a post COVID world.

# Today's Meeting Purpose

- **Provide an update on TVA COVID-19 responses, Board decisions**
- **Host a Virtual Public Listening Session**
- **Hear RERC views on TVA's Electric Vehicle (EV) Strategy**
- **Create an Advice Statement regarding TVA's EV Strategy**

# Advice Questions

- How should TVA partner with others to remove barriers to EV adoption in these key areas:
  - Charging Infrastructure
  - Innovative and Supportive Policies
  - Vehicle Availability
  - Consumer Awareness
- What gaps do you see in TVA's electric vehicle strategy?



# DFO Update

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Joe Hoagland, Designated Federal Officer

# TVA Update

- TVA COVID 19 Response
  - <https://www.tva.com/coronavirus>
  - TVA Operations / Employees
- TVA Board Meeting August, 2020
  - Extension of COVID 19 financial support
- TVA Valley Partners
- Southeast Energy Exchange Market (SEEM)
- Vonore Battery Project

# Pandemic Support

- Community Care Fund: 355 approved applications from 136 LPCs, with \$2.7M in TVA funding contributing to a total of \$5.3M in non-profit proceeds
- Back-to-Business Credit: 77/108 LPCs and 224/644 large customers are participating; credits issued to date totaling \$9.9M and supporting approximately 91,000 jobs across the Valley
- Economic Development: 51 customers benefitting from relaxed criteria, deferred claw-backs, and avoided credit suspensions, totaling approximately \$5.8M

# Valley Partner & LPC Engagement

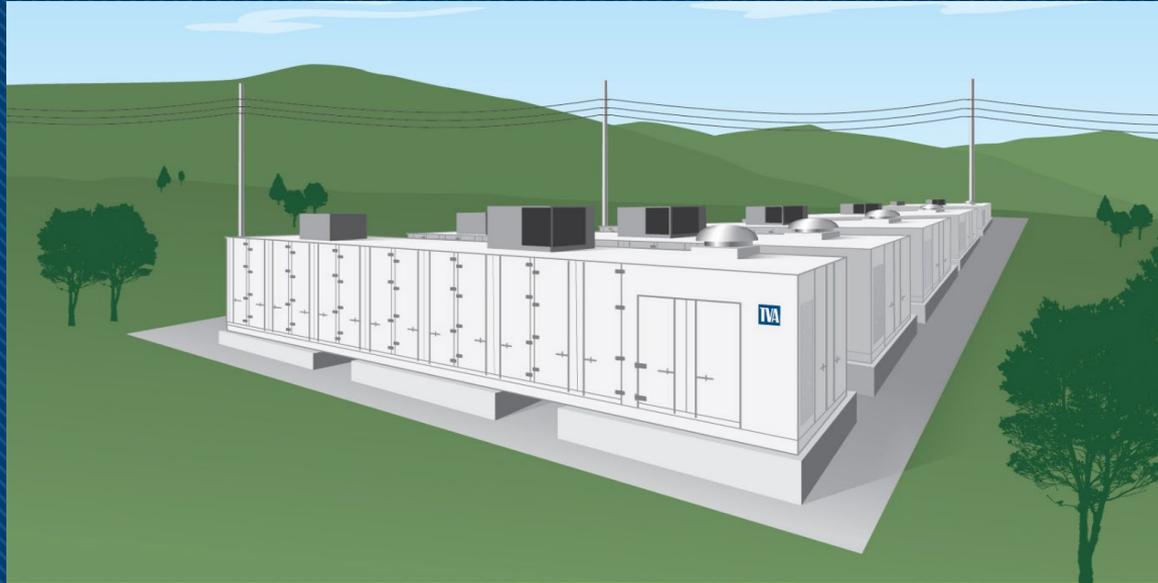
- Aberdeen Electric Department: Conducted “follow-up listening” meeting with Mayor; working toward city council meeting participation and potential legal escalation
- Bessemer, Glasgow Rate Request under consideration
- Flexibility Agreement: 62 signees as of October 9
- NES Resumes Disconnections, Late Fees for Late Payments: WTVF-TV
- GEPB/TVA Award Additional Money to Community Relief Fund: WCLU-AM

# Southeast Energy Exchange Market (SEEM)

TVA continues to look for ways to efficiently integrate renewable energy into our portfolio, while providing low cost, reliable energy.



# Vonore Battery Storage System



Break – 10 minutes

# Be Ready for...

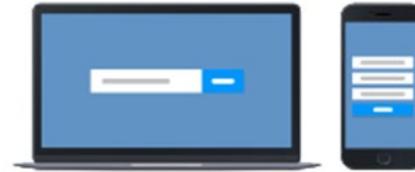
# Poll Everywhere

## Mobile



1. Download it on your mobile device
2. Enter **EXTREL**

## Web



- 1 Go to **PolIEv.com**
- 2 Enter **EXTREL**
- 3 Respond to activity



# Electric Vehicle OPPORTUNITY

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Drew Frye – TVA Transformative Innovation

Travis Reid – TVA Commercial Energy Solutions

# Topics We'll Cover

- Impact of Electrifying Transportation
- Background on EVs & the Market
- Consumer Research Insights
- The EV Roadmap & Barriers to EV Adoption
- How TVA and Stakeholders can Remove Market Barriers
- Discussion and Advice

# TVA's Mission



ENERGY | ENVIRONMENT | ECONOMIC DEVELOPMENT | INNOVATION

# Why TVA Focuses on Electric Transportation

**Electric Vehicles:** Transportation electrification presents a substantial opportunity



**Reduce the largest source of CO<sub>2</sub>** – and other air pollutants



**Use energy more efficiently** – better use of energy resources



**Balance the power system** – off-peak charging helping keep rates low



**Invest locally** – economic benefits of more locally produced fuel



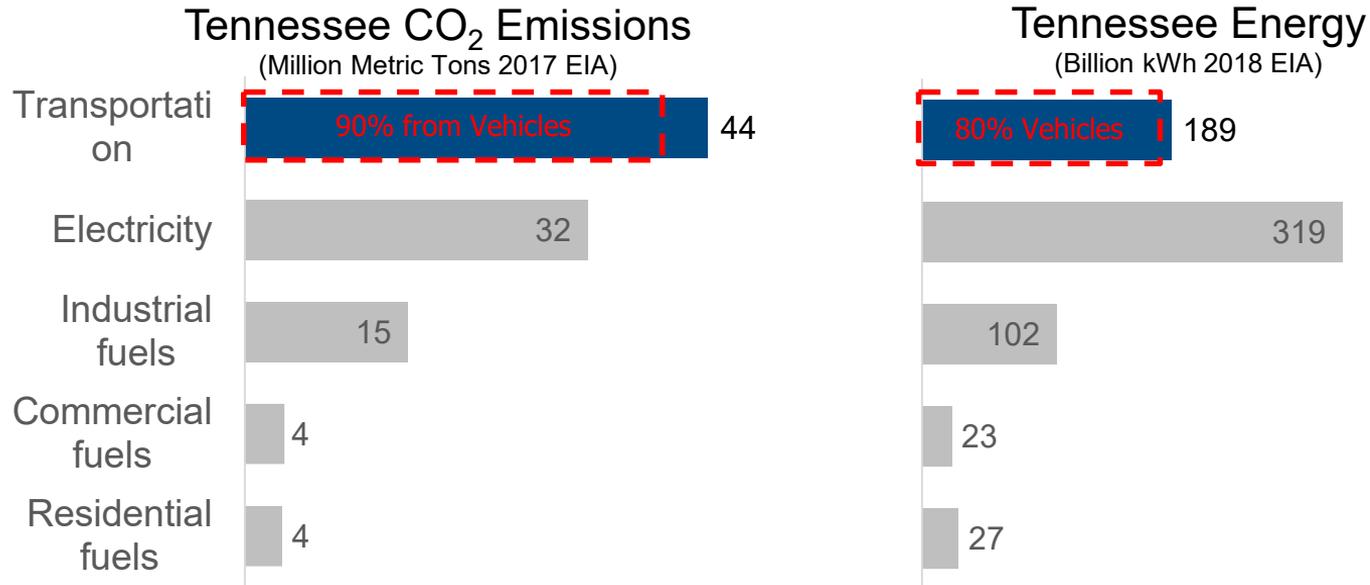
**Attract economic development prospects** – EV production and suppliers



**Lead** – innovation leaders, driving sustainability

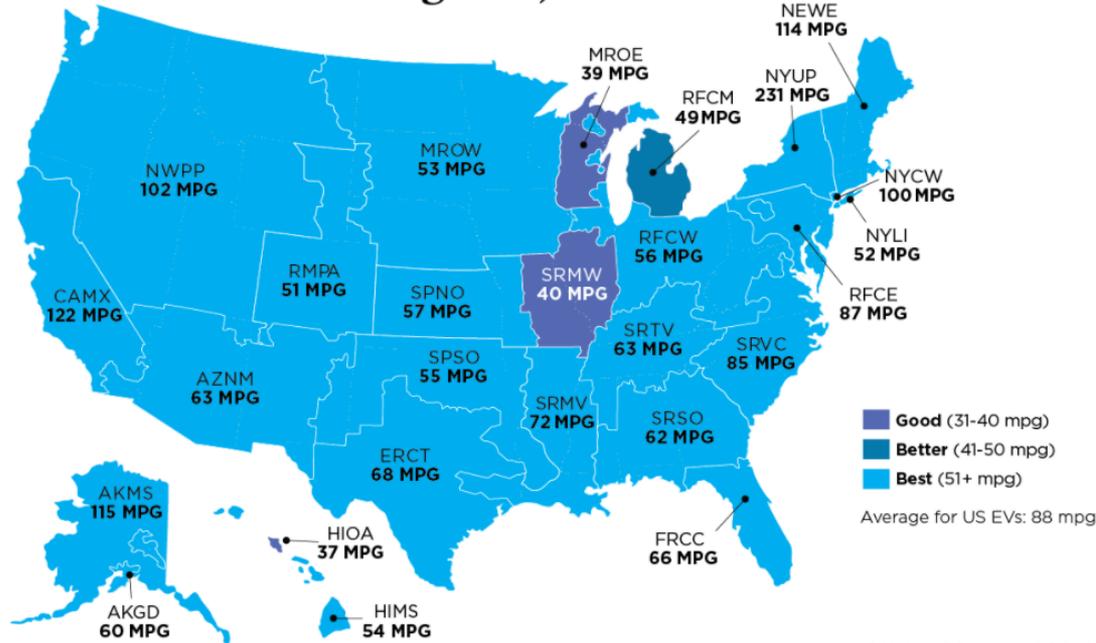
# Why TVA Focuses on Electric Transportation

**Transportation is the largest source of carbon emissions and 2nd largest energy user**

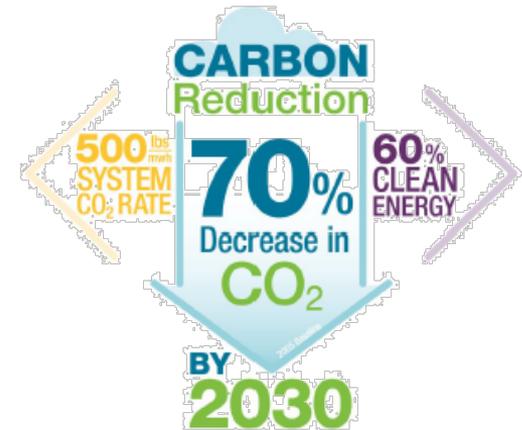


# Emissions – Getting Better Every Year

## EV Emissions as Gasoline MPG Equivalent Average EV, 2018



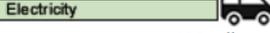
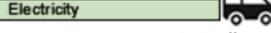
### A CLEANER FUTURE



© Union of Concerned Scientists

# Energy – EVs are 60% vs. 20% Efficient

## Compare Side-by-Side

<span>Fuel Economy</span> <span>Energy and Environment</span> <span>Safety</span> <span>Specs</span>				
<div style="text-align: center;"> <span>Personalize</span>  <span>Edit Vehicles</span> </div>	<div style="text-align: center;"> <span>2020 Tesla Model 3 Long Range</span> <span>X</span>   <b>Electric Vehicle</b>                        Automatic (A1)                 </div>	<div style="text-align: center;"> <span>2020 Hyundai Kona Electric</span> <span>X</span>   <b>Electric Vehicle</b>                        Automatic (A1)                      MSRP: \$37,190 - \$45,400                 </div>	<div style="text-align: center;"> <span>2020 Nissan Leaf (62 kW-hr battery pack)</span> <span>X</span>   <b>Electric Vehicle</b>                        Automatic (A1)                      MSRP: \$38,200                 </div>	<div style="text-align: center;"> <span>2020 Toyota Corolla</span> <span>X</span>   <b>Gasoline Vehicle</b>                        2.0 L, 4 cyl, Automatic (AV-S10)                      MSRP: \$19,600 - \$22,750                 </div>
	<b>EPA Fuel Economy</b> 1 gallon of gasoline=33.7 kWh <a href="#">Show electric charging stations near me</a>	<div style="border: 1px solid black; padding: 5px;">  <b>130</b> <small>MPGe</small>                      136 123                      combined city highway                      city/highway                      26 kWh/100 mi                 </div> <div style="text-align: center;">  <b>Electricity</b>                      330 miles                      Total Range                 </div>	<div style="border: 1px solid black; padding: 5px;">  <b>120</b> <small>MPGe</small>                      132 108                      combined city highway                      city/highway                      27 kWh/100 mi                 </div> <div style="text-align: center;">  <b>Electricity</b>                      258 miles                      Total Range                 </div>	<div style="border: 1px solid black; padding: 5px;">  <b>108</b> <small>MPGe</small>                      118 97                      combined city highway                      city/highway                      31 kWh/100 mi                 </div> <div style="text-align: center;">  <b>Electricity</b>                      226 miles                      Total Range                 </div>
<b>You save or spend*</b> Note: The average 2020 vehicle gets 27 MPG	<b>You SAVE \$3,750</b> in fuel costs over 5 years compared to the average new vehicle	<b>You SAVE \$3,500</b> in fuel costs over 5 years compared to the average new vehicle	<b>You SAVE \$3,250</b> in fuel costs over 5 years compared to the average new vehicle	<b>You SAVE \$1,250</b> in fuel costs over 5 years compared to the average new vehicle

# Economic – Jobs and Local Investment

**TN ranks No. 1 for employment concentration of auto and component manufacturing; Southeast is a growing hot spot of activity**



**Chattanooga Volkswagen Expansion  
Volkswagen ID.4**



- Denso, TN
- Van Hool, TN
- Toyota / Mazda, AL
- GM / Cadillac, TN
- SK Battery, GA
- Daimler / Mercedes, AL
- New Flyer, AL
- More to Come!

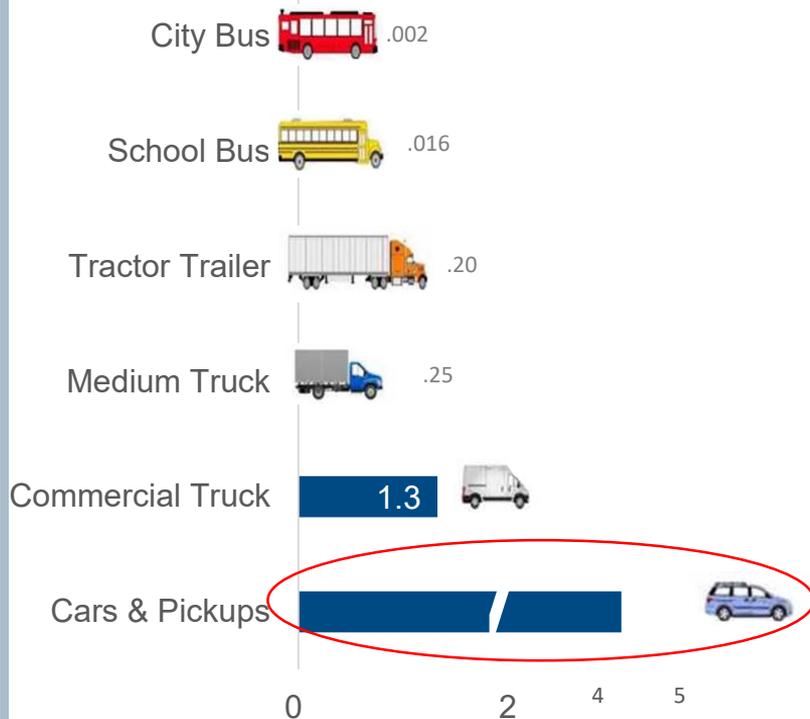


**Smyrna Nissan  
Nissan Leaf & Ariya**

# Electric Vehicle Market Opportunity

## Current Tennessee Vehicle Stock

Millions (EPA & IHS Market)



Just 4% or 200,000 EVs on the road for 5 years, we would see:



8,600 lbs of CO<sub>2</sub>e/car/year

=

**4MMT** CO<sub>2</sub>e reduced



Instead of \$2/gal for gas

=

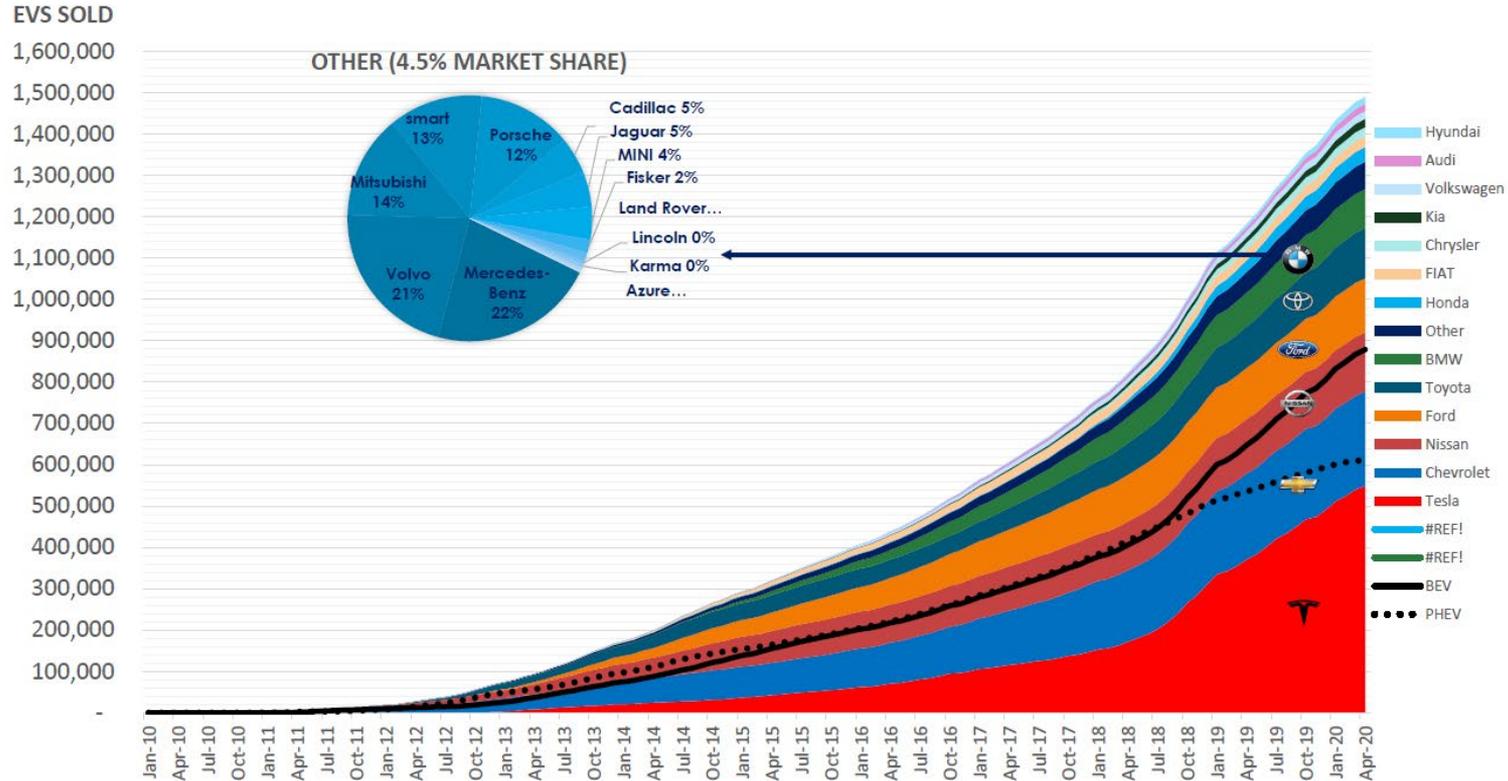
**\$600M** stays local or in consumer's pockets

# Electric Vehicles – 10 Year Retrospective

EV Topic	January 2010	January 2020
Number of EV Models for Sale	1	42
Number of EVs Announced Next 3 Yrs.	17 Small Cars	120 Cars, Trucks, SUVs
Charging Stations vs. Gas Stations in U.S.	2,000 vs. 120,000	27,000 vs. 110,000
Typical EV Range	74 mi (2010 Nissan LEAF)	226 mi (2020 Nissan LEAF)
Maximum EV Range	244 mi (Tesla Roadster)	402 mi (Tesla S)
Acceleration 0-60 mph	2.5 sec (Bugatti Veyron - \$1.25M)	< 2.3 sec (Tesla S - \$100k)
Battery Cost	\$1,000 \$/kWh	< \$200 \$/kWh

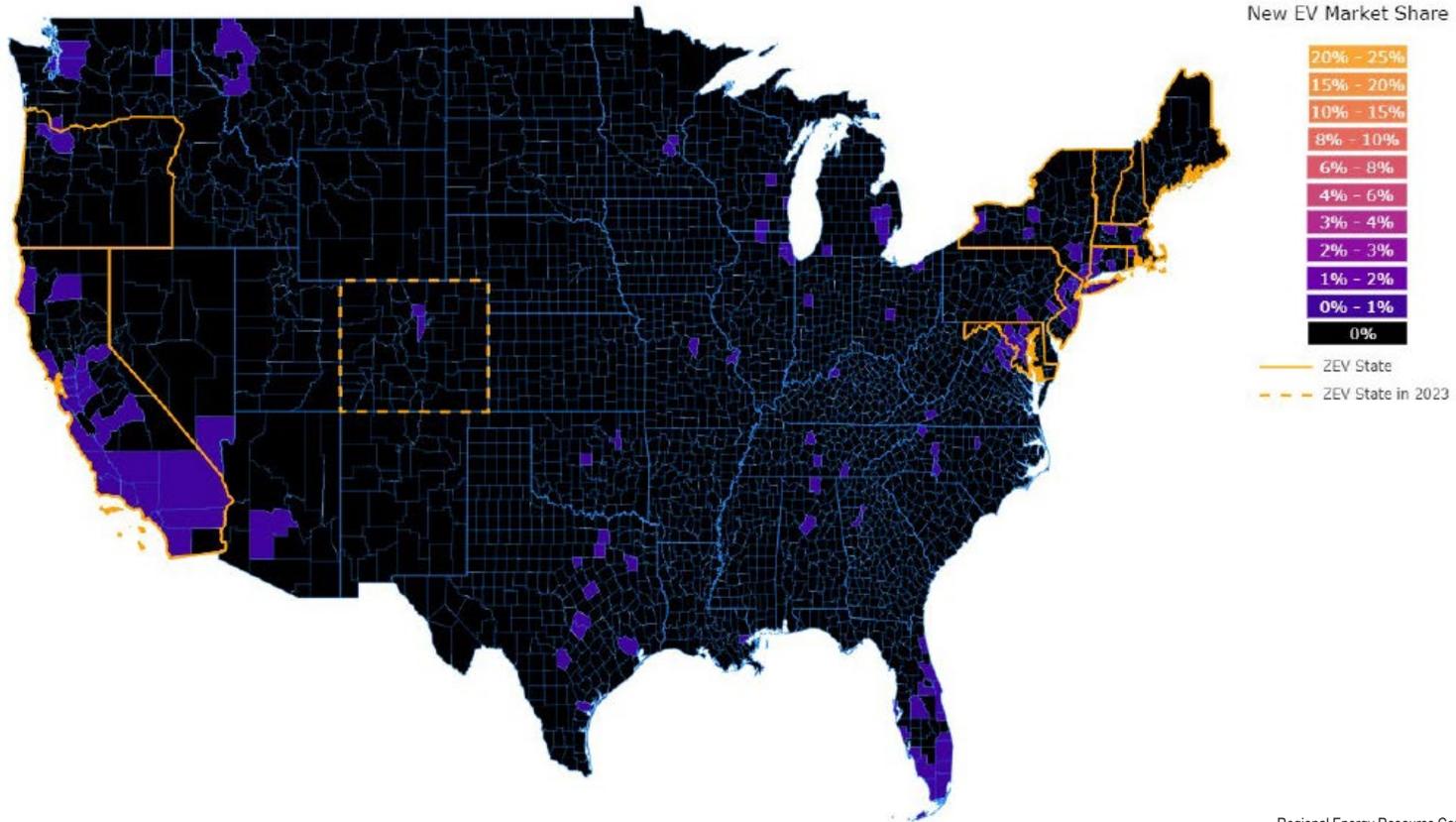
***Better: Choice, Cost, Range, Performance, Availability***

# U.S. EV Sales Exceed 1.5M through April 2020



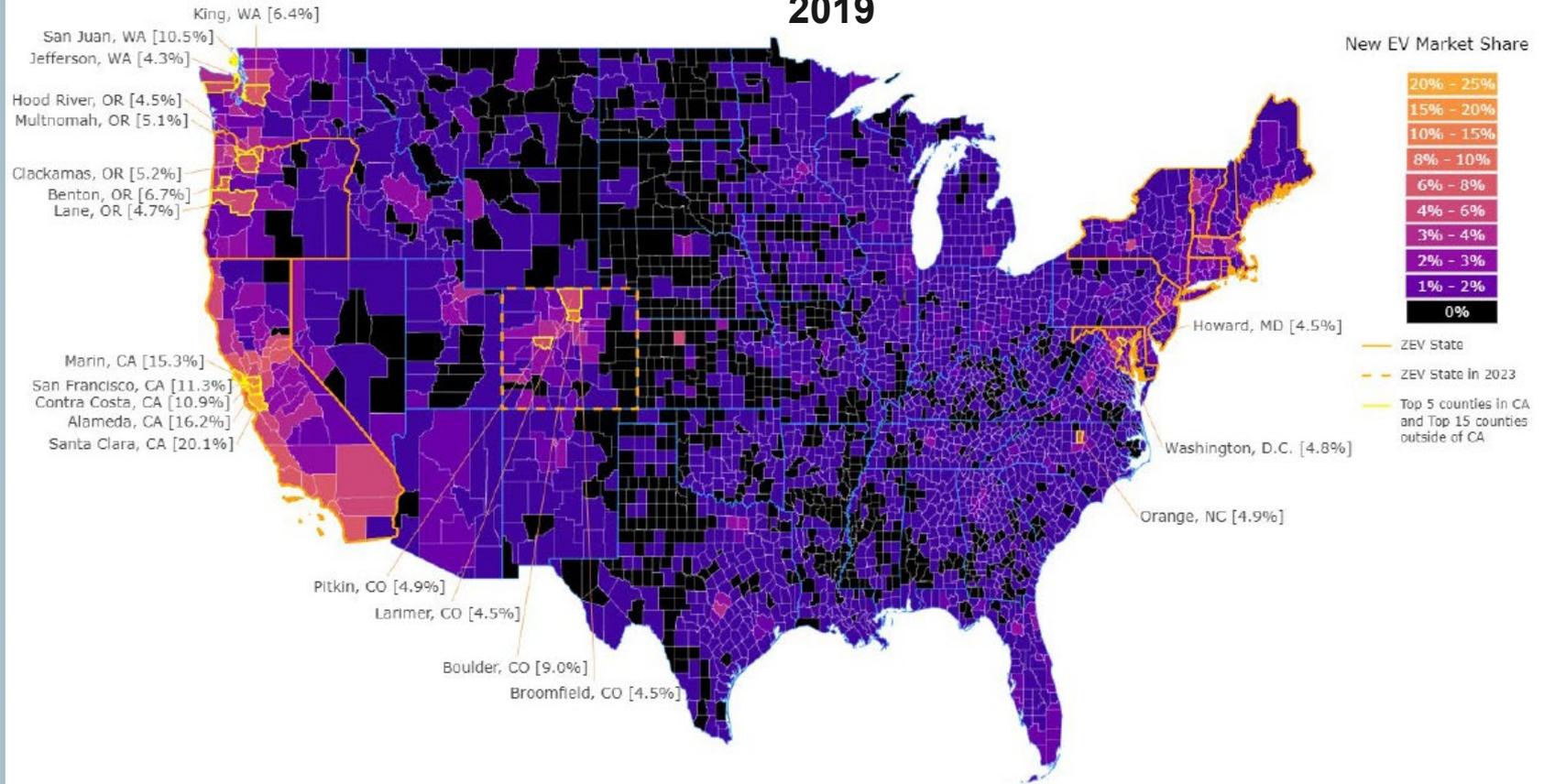
# EVs Spreading Across the U.S.

2010

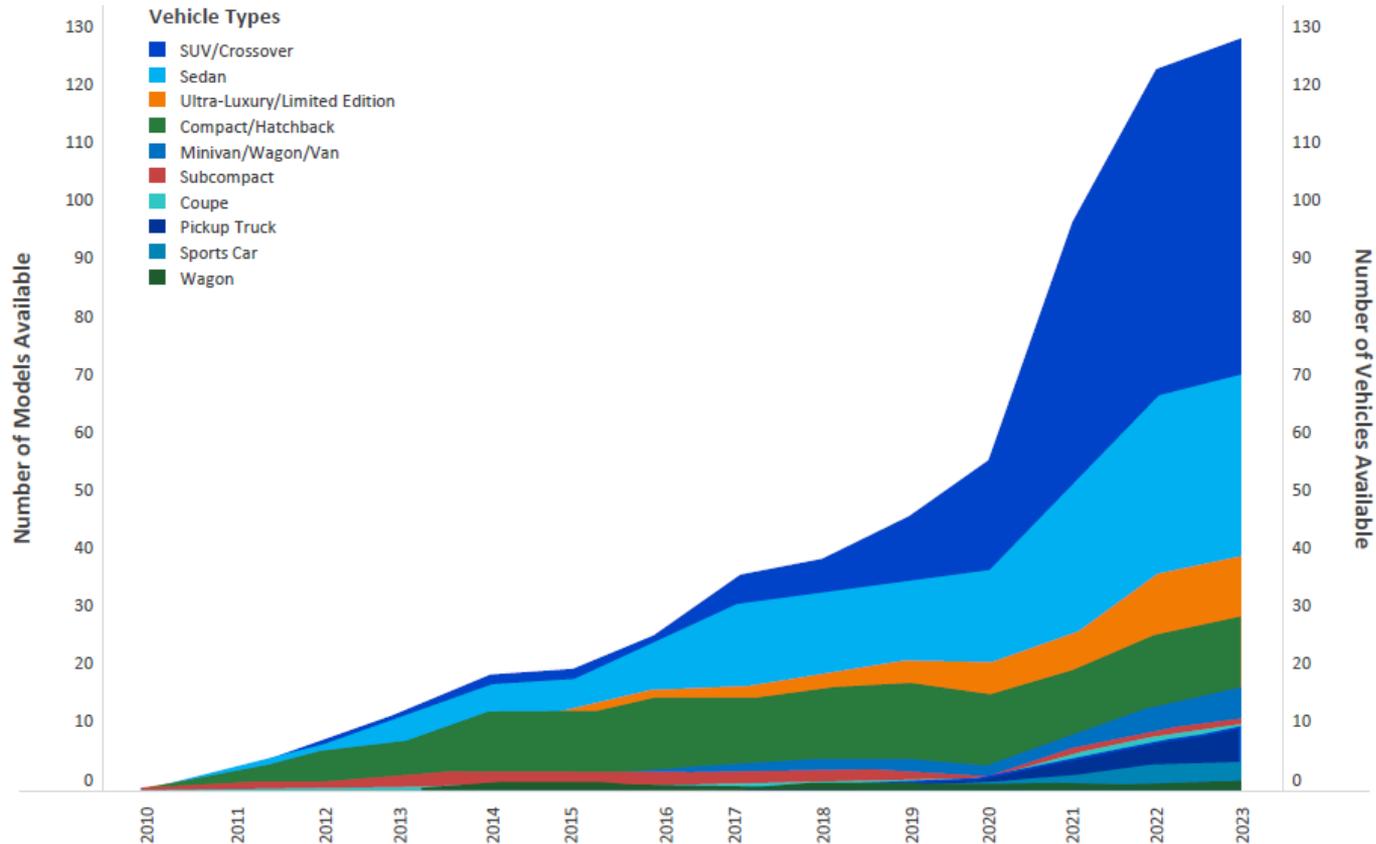


# EVs Spreading Across the U.S.

2019



# Growing Vehicle Choice in All Segments



# Electric Crossover, SUV and Truck Options

2020 Ford Escape PHEV



2021 Jeep Wrangler PHEV



2021 Rivian R1S BEV



2021 Ford Mustang Mach-E BEV



2021 Rivian R1T BEV



2020 Toyota RAV4 Prime PHEV



Photos: Cedric Daniels, Alabama Power, a division of Southern Company (January 2020); Dan Bowermaster EPRI (November 2019)

# Electrification for BIG Vehicles also Growing



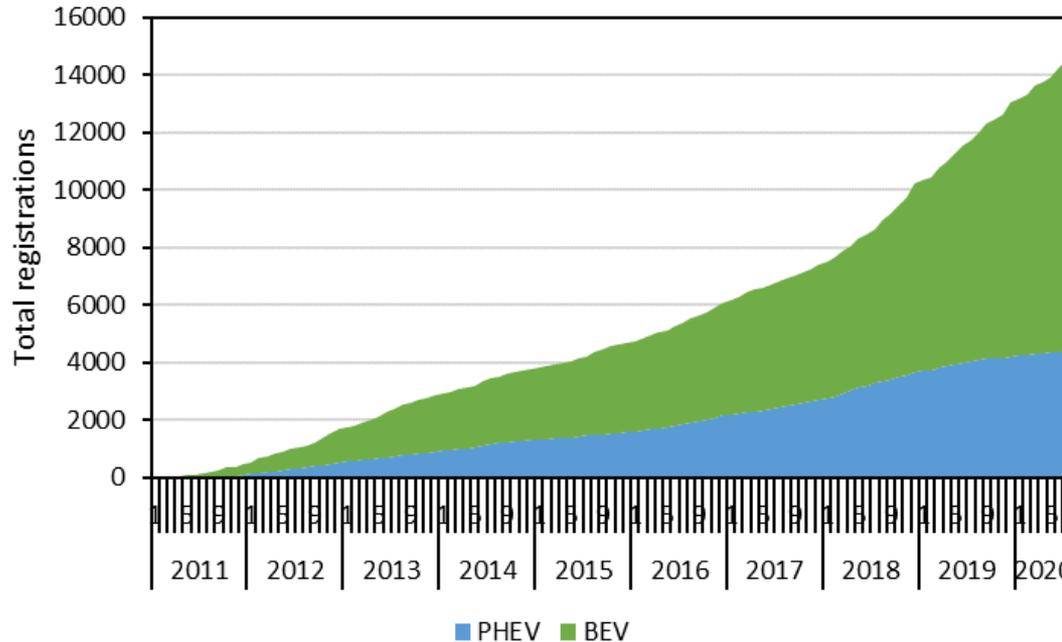
© 2020 Electric Power Research Institute, Inc. All rights reserved.

**EPRI** ELECTRIC POWER RESEARCH INSTITUTE



# TVA's EV Market is Playing Catch Up

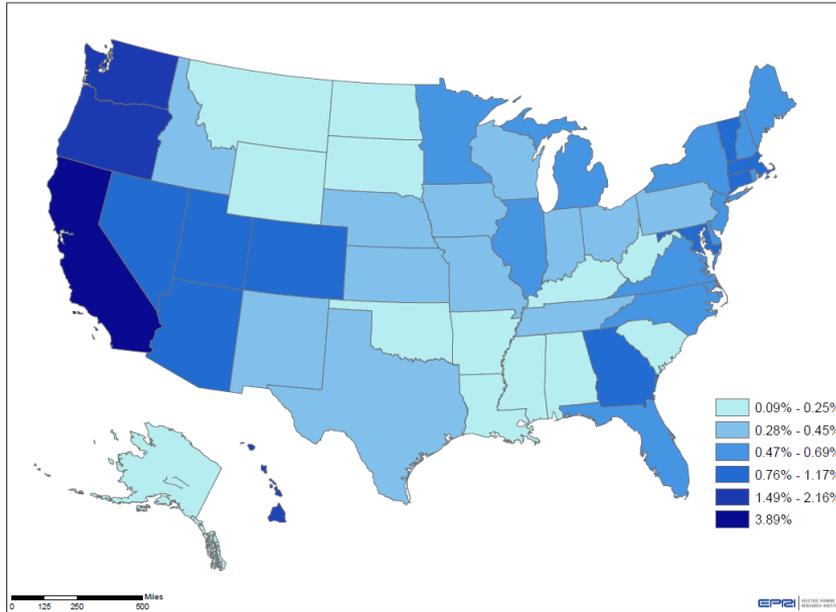
TVA Territory Cumulative EV Registrations



*~14,000 EVs*

# The Valley Lags Other Areas in EV Adoption

EV Market Share (% of Vehicles in Operation)



#1 California

·  
·  
·  
·

#29 Tennessee

·  
·

#42 Kentucky

#43 Alabama

·  
·

#51 Mississippi

**What are the barriers to greater EV adoption in the Valley?**

# It's Time for...

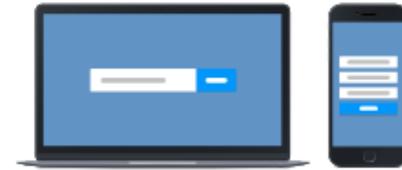


## Mobile



1. Download it on your mobile device
2. Enter **EXTREL**

## Web



- 1 Go to **PolIEv.com**
- 2 Enter | **EXTREL**
- 3 Respond to activity

# Have you driven an EV?

Yes! I own an EV! **A**

Yes! I tried it and liked  
it! **B**

Yes... it's not for me. **C**

No... but I want to. **D**

No... not interested **E**

Other... will explain  
during open discussion **F**

# What keeps you from buying an EV now?

## Goal: Position TVA & LPCs as Innovative Leaders in Electrifying Transportation

TVA has an opportunity to lead the EV strategy in the Valley, but it won't happen overnight. Based on what we've learned from successful regions around the country as well as local consumers, dealerships, and businesses, the EV Consumer Research Team recommends three immediate strategic priorities.

### Here's how we plan to get started in 2020.

#### GIVE PEOPLE A REASON TO CARE



Without regulatory or social influence, most people in the Valley don't feel compelled to learn about EVs; therefore, there is a general lack of awareness, interest, and knowledge. Users need a personal reason to care before they'd consider buying an EV. Here's how we plan to get started:

1. Create an EV Buzz at TVA and LPCs
2. Consumer Marketing & Digital Engagement
3. Experiential Educational Events

#### MAKE IT EASY TO BUY & OWN



Switching to an EV is a lifestyle change. Potential buyers fear the unknown and crave a sense of security. There are several barriers including dealership participation, inventory access, and charging infrastructure. Users will require a simpler path. Here is how we plan to get started:

1. Public Charging Infrastructure
2. Personalized Tools for Buyers and Sellers
3. Business & Industry Engagement

#### AMPLIFY THE EV COMMUNITY



EV owners are extremely proud and confident in their purchase. Group norms have started to form organically that help spread EV knowledge, such as letting strangers drive their cars. Potential buyers value these opinions and experiences. There is an opportunity to enhance the natural peer-to-peer selling process. Here is how we plan to get started:

1. EV Ambassador Program
2. Consumer Forums & Feedback

## Want to learn more?

Head over to [www.tvaevstudy.com](http://www.tvaevstudy.com) and use the password: stoked+tva

You can also use this QR code to navigate to the site!



# Because We Uncovered These Insights

Each of the concepts listed above was inspired by user insights. Here are some samples of what we heard from consumers, dealerships, and businesses.

Each icon below represents a key theme from real users.



While dealerships and businesses with fleets will play an increasingly important role in the EV movement, currently consumers represent the largest opportunity for impact.

Consumer #1



EVs feel like a list of problems to solve.

Consumer #2



The environmental pitch seems questionable.

Consumer #3



EVs were built for the upper class.

Consumer #4



Most potential Valley buyers are radically uninformed.

Consumer #5



Current EV owners are extremely passionate about their cars and eager to share.

Dealer #1



Most dealerships aren't compelled to sell EVs.

Dealer #2



The role of the car salesperson needs to shift.

Dealer #3



There is a serious lack of EV inventory in the Valley.

Business #1



Public entities with fleets fear EV technology and forcing others to change.

Business #2



Private businesses with fleets crave a tech forward competitive advantage, but don't yet clearly see how to make EVs happen.

## Human-Centered Engagements

96 consumers  
16 dealerships  
5 private and public fleet organizations  
3 city & state government representatives

100s of ideas generated  
33 ideas considered  
21 tested with real users

A quick snapshot of the team's methodology.

# Creating Partnerships & Mobilizing EV Stakeholders

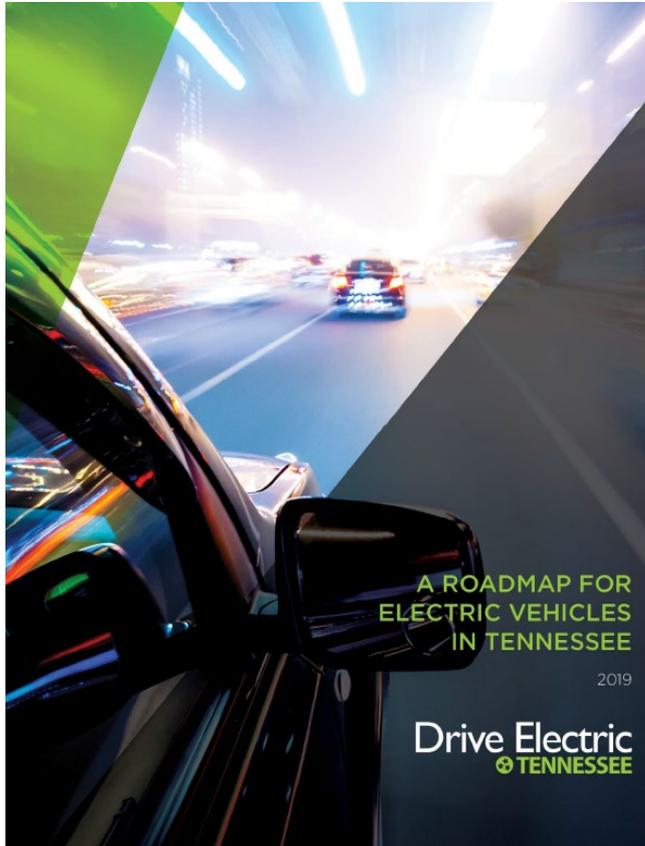
The following Key Contributors and participating organizations attended events, developed and reviewed key deliverables over nine months to create a Roadmap for EVs.



## Participants:

- Atlas Public Policy
- Bridgestone
- BYD
- CDE Lightband
- City of Nashville
- City of Knoxville
- City of Chattanooga
- Cummins Filtration
- Draft Agency
- General Motors
- Greenlots
- GRIDSMART
- Local Motors
- Schneider Electric
- SoftServe
- Southeast Energy Efficiency Alliance
- Stantec
- Tennessee Automotive Association

# The EV Roadmap – Identified Market Barriers



## Identified 4 Major Market Gaps

Charging Infrastructure Availability  
(range anxiety)

Innovative & Supportive Policies

EV Availability & Offerings

Consumer Awareness



# What Others are Doing

**Charging Infrastructure:** States, Utilities and Industry are coordinating and collaborating together to build regional systems to facilitate travel; Utilities and Industry supporting home and around town charging options

## Midwest utilities team up for EV charging network



For media requests please contact Cassie Powers at [cpowers@naseo.org](mailto:cpowers@naseo.org)

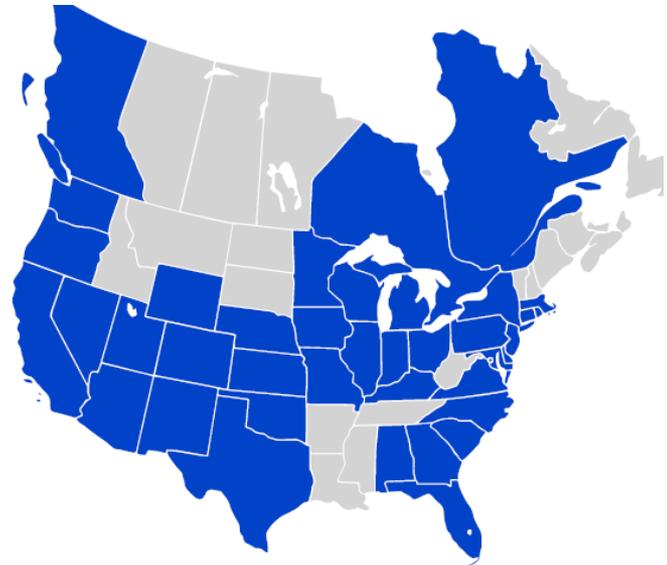
Eight Intermountain West Governors Commit to Coordinating on Regional Electric Vehicle Charging Infrastructure, and Release Voluntary Minimum Standards for Stations



WEST COAST  
ELECTRIC  
HIGHWAY

## East Coast states to coordinate deployment of EV charging hubs

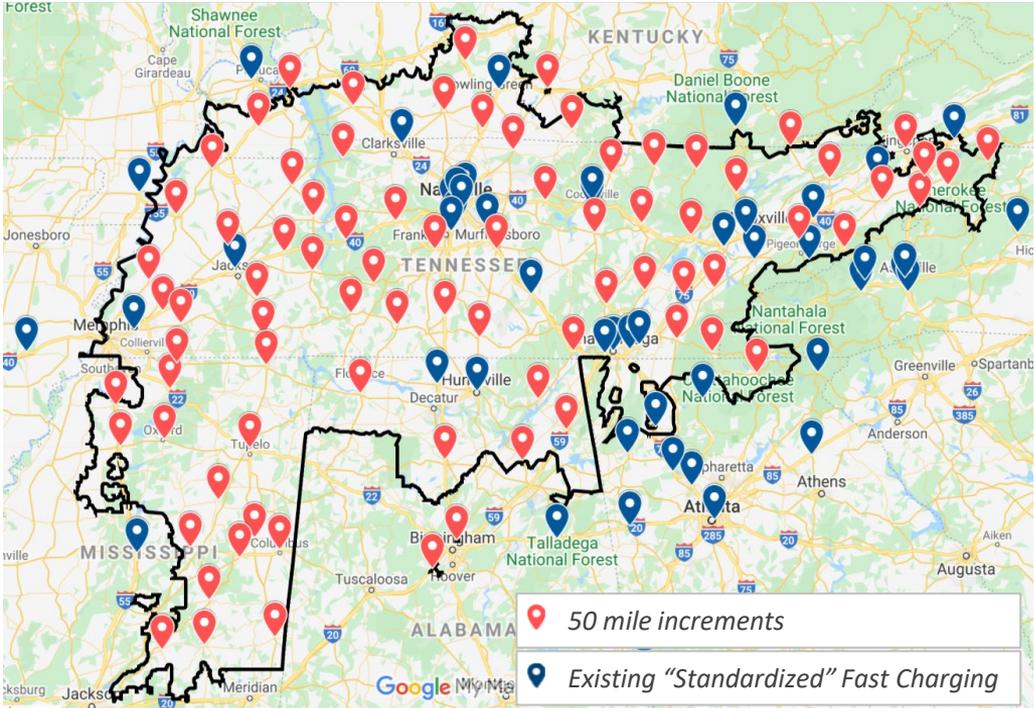
## Utility Infrastructure Programs



# What TVA and Stakeholders can do - *Lead*

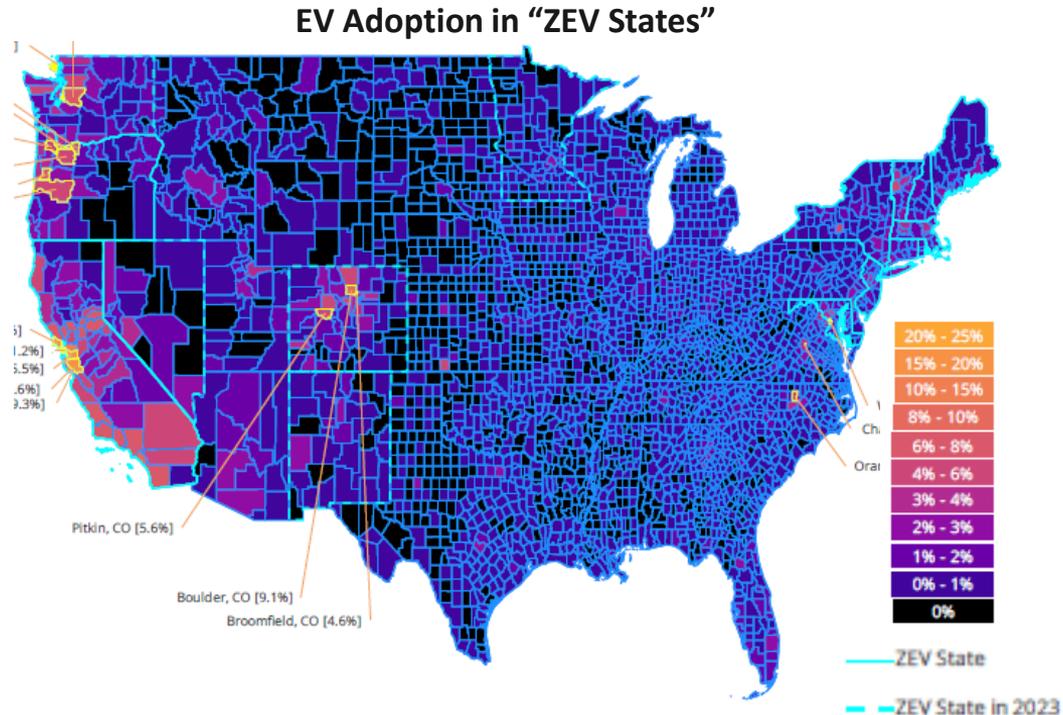
Partner to create the foundational charging network that enables driving an Electric Vehicle EVERYwhere in the Tennessee Valley

**Illustrative Example**



# Policy Market Barrier

Top EV markets are boosted by strong policies (state, local, regulatory, utility), but Southeast states are less inclined to push EVs



# What Others are Doing

**Supportive Policy:** States, Regulators, Local Governments and Utility supportive policies and programs (incentives, mandates, ordinances, utility investment approval, rate designs)

*California Plans to Ban Sales of New Gas-Powered Cars in 15 Years*

News Release

City of Atlanta Passes “EV Ready” Ordinance into Law

**Governor Cuomo Announces Nation-Leading Initiatives to Expand Electric Vehicle Use to Combat Climate Change**



Plug-in Electric Vehicle Rate



**Colorado bill extending electric-vehicle tax credits charging through Capitol**

**PUC Adopts Final Policy Statement on Third-Party Electric Vehicle Charging; Reduces Regulatory Uncertainty, Promotes New Investment**

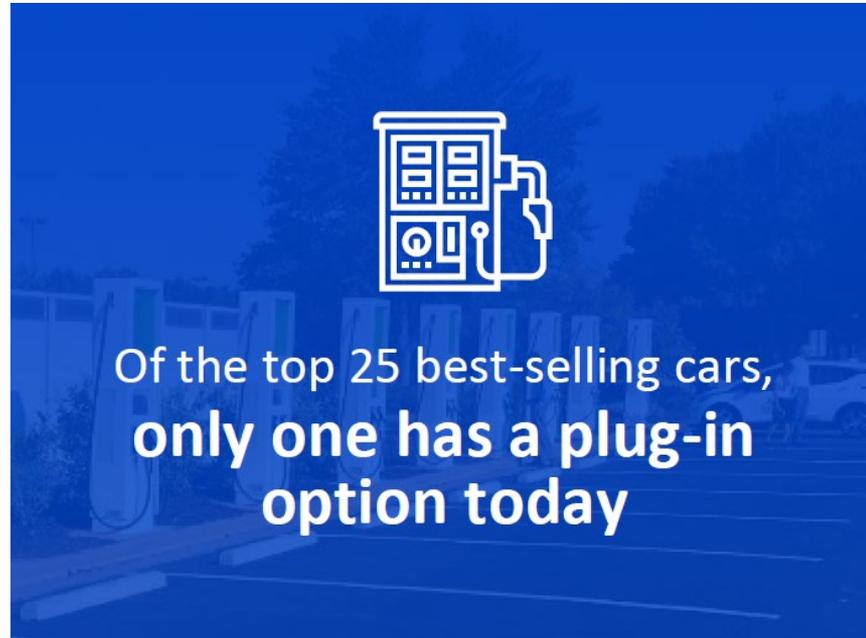
# What TVA and Stakeholders can do – *Set & Support*

Set supportive utility EV policies (rates, regulatory, legal) and leverage stakeholders to create and share positive EV policy guidance at state and local levels

- Contractual changes to enable simple and fair consumer pricing models across the Valley
- Rates for fast charging that encourages 3rd-party investment in public charging infrastructure
- Regulatory stances that encourage LPC investment and engagement in public charging infrastructure
- Stakeholder led impactful policies at State and Local levels

# EV Availability & Offerings Market Barrier

Markets with vehicle choice, competition and inventory thrive, while limited markets struggle with lack of affordable EVs for various uses



(2020 Toyota RAV4 has Plug-in Hybrid Option)

# What Others are Doing

**EV Availability & Offerings:** State mandates (ZEV) are by far the most impactful way to increase vehicle availability and offerings, but also offering incentives and partnering with Automakers, Dealers, Fleets, Rideshare companies, etc. are ways to bring more EV to your market.

**Lyft deploys 200 long-range EVs for its rideshare rental fleet in Colorado**

**Frito-Lay hits milestone with all-electric vehicles, plans to purchase 100 more**

Utilities and the Auto Industry: A Romance That's Meant to Be

March 5, 2020 | By Oliver Pincon, ZappyRide and Erika Myers, SEPA

**10 Ways That Car Dealerships Can Step Up To Sell Electric Vehicles**

General Motors and Uber team up to help reduce vehicle tailpipe emissions and accelerate the transition to an all-electric future

2020-09-08

# What TVA and Stakeholders can do – *Convene*

Engage local EV automakers in partnerships to bring more EVs to the Valley;

Collaborate with commercial fleets and public transit agencies to investigate “large scale” electrification opportunities

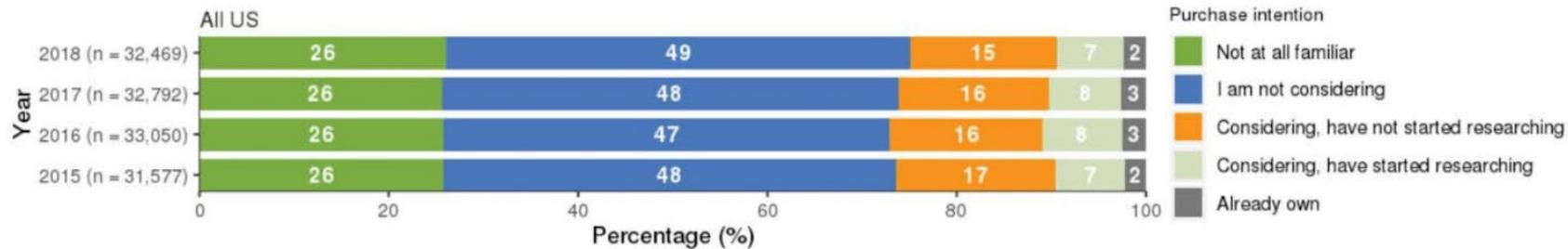
- Already engaged automakers, rideshare operators, trucking, school systems and public transit to identify unique market barriers, gauge interest in partnerships and inform our planning



# Consumer Awareness Market Barrier

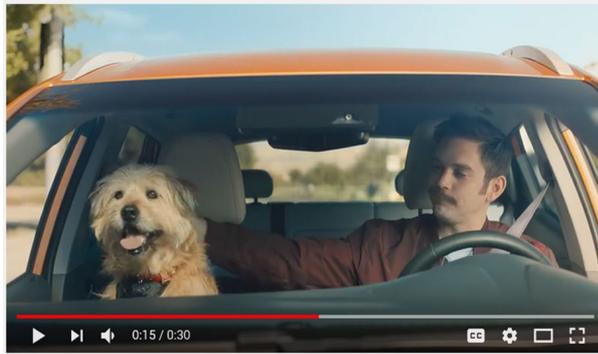
Awareness of EVs (benefits, viability for everyday use) is low and has shown little change; vehicle purchase is a major, multi-year consumer decision and automakers and dealerships are currently unprepared to support rapid EV demand

## Considering purchasing an EV National residential data



# What Others are Doing

**Consumer Awareness:** Driving awareness and education through online tools, social media, multi-media campaigns, sponsored ride n' drives.



## Charging Estimator



02:28

Time

\$3.41

Cost

\$7.52

Gasoline Savings

Distance Driven

85 MILES

Home and Destination

48 amp Wall Connector  
240V | 48A

72 amp Wall Connector  
240V | 72A

Road Trip  
Supercharger  
120kW



# What TVA and Stakeholders can do – *Drive*

Enable and boost consumer-focused efforts to educate, inform and promote EVs to transform the market

**Strategic priorities identified through extensive ethnographic consumer research**

**GIVE PEOPLE A REASON TO CARE**



**MAKE IT EASY TO BUY & OWN**



**AMPLIFY THE EV COMMUNITY**



# What are we Missing?

Market Gap	*Role and Actions
<b>Charging Infrastructure Availability</b>	<b>Lead</b> Partner to create the foundational charging network that enables driving an Electric Vehicle Everywhere in the Tennessee Valley
<b>Innovative &amp; Supportive Policies</b>	<b>Set Internal &amp; Support External</b> Set Supportive Utility EV Policies (Rates, Regulatory, Legal); Leverage EV stakeholders to create and share positive EV policy guidance at state and local levels
<b>EV Availability &amp; Offerings</b>	<b>Convene</b> Engage in-Valley automakers in partnerships to bring more EVs to the Valley; Collaborate with commercial fleets and public transit agencies to investigate “large scale” electrification opportunities
<b>Consumer Awareness</b>	<b>Drive</b> Enable and boost consumer-focused efforts to educate, inform and promote EVs to transform the market

*\*Each market gap is important and interdependent for widescale EV adoption, but TVA’s role and activities in each area will differ*



Thank you!

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Drew Frye  
Project Manager Electric Vehicle Evolution  
[agfrye@tva.gov](mailto:agfrye@tva.gov)  
423-751-7060



# RERC Questions and Discussion

# RERC Discussion

- How should TVA partner with others to remove barriers to EV adoption in these key areas:
  - Charging Infrastructure
  - Innovative and Supportive Policies
  - Vehicle Availability
  - Consumer Awareness
- What gaps do you see in TVA's electric vehicle strategy?

# Lunch Break

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Meeting will reconvene  
at 12:58 PM EDT

Please stay connected just turn off  
video and mute your computer



# Public Listening Session

- **Public participation is appreciated**
- **This is a listening session; responses are typically not provided**



# Preregistered Public Speakers

2 minutes per speaker

No registered speakers



# RERC Discussion

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# Term 4 RERC Members – Advice Comments

**RERC Members will be called on in alphabetical order to provide up to 2 minutes of comments:**

How should TVA partner with others to remove barriers to EV adoption in these key areas:

- Charging Infrastructure
- Innovative and Supportive Policies
- Vehicle Availability
- Consumer Awareness

What gaps do you see in TVA's electric vehicle strategy?

**Michael Butler**

Tennessee Wildlife Federation

**Dr. Bill Carswell**

University of Alabama, Huntsville (ret'd)

**Erin Gill**

City of Knoxville

**Rodney Goodman**

Habitat for Humanity

**Dana Jeanes**

Memphis Light, Gas, and Water

**Matt Largen**

Williamson, Inc.

**Jonathan Levenshus**

Sierra Club

**Peter J. Mattheis**

Tennessee Valley Industrial Committee

**Jennifer Mundt, RERC Chair**

State of North Carolina

**Alice Perry**

State of Mississippi

**Doug Peters**

Tennessee Valley Public Power Association

**Dr. Kari Babski-Reeves**

Mississippi State University

**Patrice Robinson**

Memphis City Council

**David Salyers**

State of Tennessee

**Charles Snavelly**

Commonwealth of Kentucky

**Clay Walker**

NETWORKS Sullivan Partnership

**John Warren**

Commonwealth of Virginia

**Lloyd Webb**

Olin Chlor Alkali

Break – 20 minutes

# Advisory Statement Review

# Term 4 RERC Members – Roll Call Vote

**Michael Butler**

Tennessee Wildlife Federation

**Dr. Bill Carswell**

University of Alabama, Huntsville (ret'd)

**Erin Gill**

City of Knoxville

**Rodney Goodman**

Habitat for Humanity

**Dana Jeanes**

Memphis Light, Gas, and Water

**Matt Largen**

Williamson, Inc.

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Commonwealth of Kentucky

**Clay Walker**

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**John Warren**

Commonwealth of Virginia

**Lloyd Webb**

Olin Chlor Alkali

\*RERC Chair



# Wrap Up

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FY2019  
Sustainability Report



**SERVING  
THE PEOPLE**



[tva.com/sustainabilityreport](http://tva.com/sustainabilityreport)

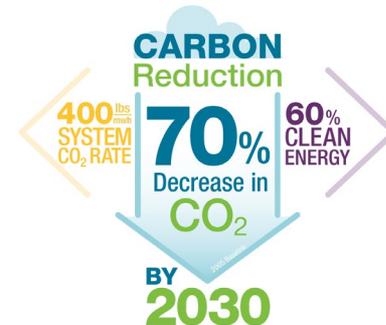
# Sustainability Reporting

**Attracting Industry:** Low rates and carbon competitiveness are critical selling points to companies looking to build or relocate in the region.

**Disclosure:** Transparency and availability of information.

**Reputation:** Outlines TVA's commitment to sustainability and sets the stage for Valley sustainability focus and dialogue with stakeholders.

**Assisting LPCs:** TVA provides information on CO<sub>2</sub> and carbon accounting and the generation mix for you to share with your customers.



## Next Steps:

- Next RERC Meeting: *Tentative* March/April 2021
- Please review the Sustainability Report and respond to the survey you will receive if you are unable to attend the Dec. 1 meeting.

## For public input:

- To provide comments or find more RERC information, visit: [www.tva.gov/erc](http://www.tva.gov/erc)
- Stay up to date on TVA public comment periods and meetings at <https://www.tva.com/about-tva/get-involved-stay-involved>

