



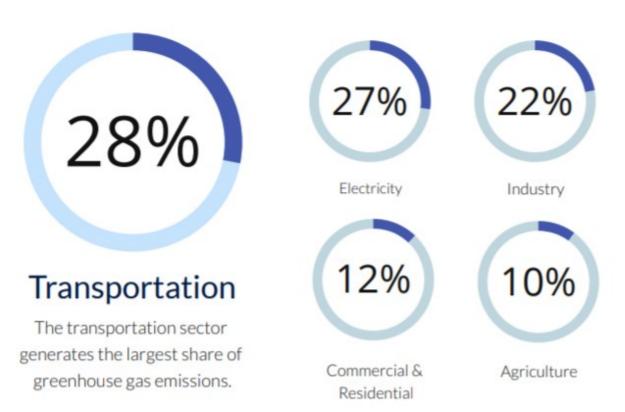


"Intelligent mobility driven by the deployment of transportation technologies has the potential to significantly reduce deaths on U.S. roadways, decrease congestion and emissions, and provide equal access to mobility for all U.S. residents while growing the economy, providing better health outcomes, and increasing access to education and economic opportunity."

ITS America 2021 Technology Blueprint

Transportation Accounts for 28% of all U.S. Greenhouse Gas Emissions

Total U.S. Greenhouse Gas Emissions by Sector (2018)



Safer. Greener. Smarter.

What are electric vehicles?

Battery Electric Vehicles



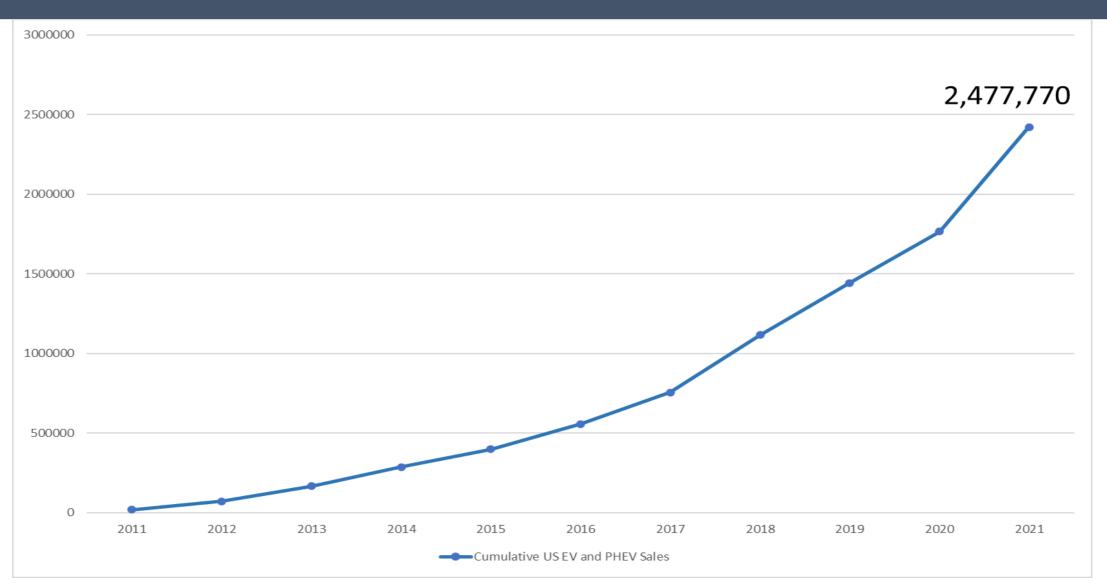
Plug in Hybrid Electric Vehicles



Hybrid Electric Vehicles



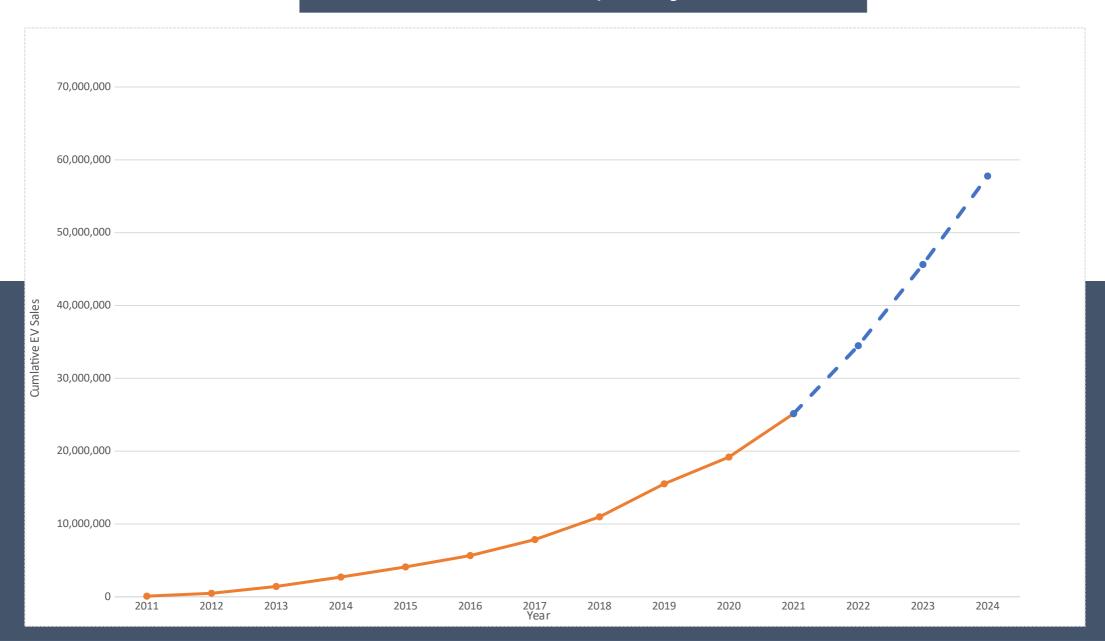
Cumulative EV and PHEV sales in the United States 2011-2021



What's going on in the ITS Heartland States?

State	EV Share of Total Market	BEV Models Available	PHEV Models Available
lowa	0.7%	11	10
Kansas	1.4%	12	10
Missouri	0.8%	17	18
Nebraska	0.7%	12	11
Oklahoma	0.7%	16	16

US EV sales projections



Investments

- +74,000 EV only employees
- Over \$55 Billion in EV only investments
- Over \$67 Billion in facility investments
- 22 states
- 22 vehicle models
- Growing OEM commitments
 - Light, Medium and Heavy Duty

Top 10 Automaker Investments

Parent Company	Total EV-only Investment	
General Motors Company	\$15,527,000,000	
Ford Motor Company	\$13,635,000,000	
Tesla Motors, Inc.	\$9,700,000,000	
Rivian	\$6,000,000	
SK Innovation Co., Ltd	\$2,610,000,000	
Nissan Motor Company Ltd	\$2,200,000,000	
Toyota Motor Corporation	\$1,290,000,000	
Daimler AG	\$1,058,585,000	
Volkswagen AG	\$800,000,000	
Nikola Motor Company	\$600,000,000	

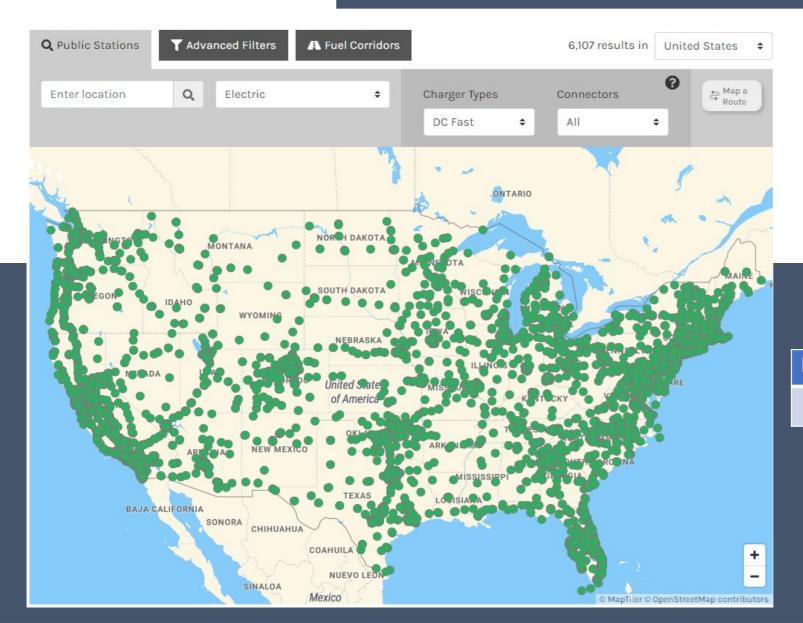
Current US EV/Battery Production Facilities



Future US EV/Battery Production Facilities



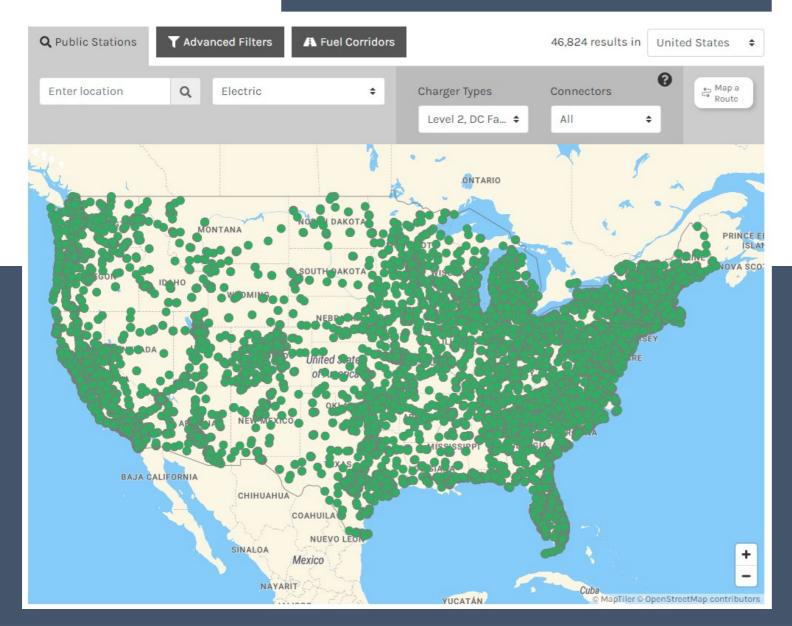
Where do I charge?



DC Fast Charge Ports

+22,000

Where do I charge?



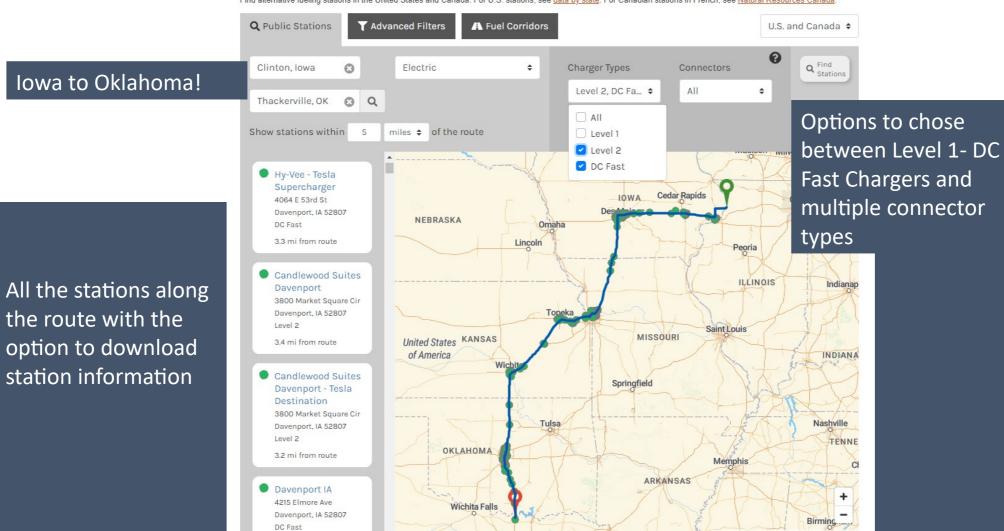
Leve 2 Charge Ports

+104,000

Let's Take a Road Trip

Alternative Fueling Station Locator

Find alternative fueling stations in the United States and Canada. For U.S. stations, see data by state. For Canadian stations in French, see Natural Resources Canada.



Intersections with IIJA

- The National Electric Vehicle Infrastructure (NEVI) Formula Program
 - www.driveelectric.gov (Joint DOE/DOT Office)
 - State Plans due August 1, 2022
- The Charging and Refueling Infrastructure Grant Program
 - Investments along Alternative Fuel Corridors
- Clean School Bus Program
- Electric or Low-Emitting Ferry Program



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In Partnership With:











- What's needed in your state to accelerate transportation electrification?
- What does success look like in 2 years? 5 years? 10 years?
- What are the opportunities?
- What are the challenges?
- How can ITS Heartland and ITS America Help?





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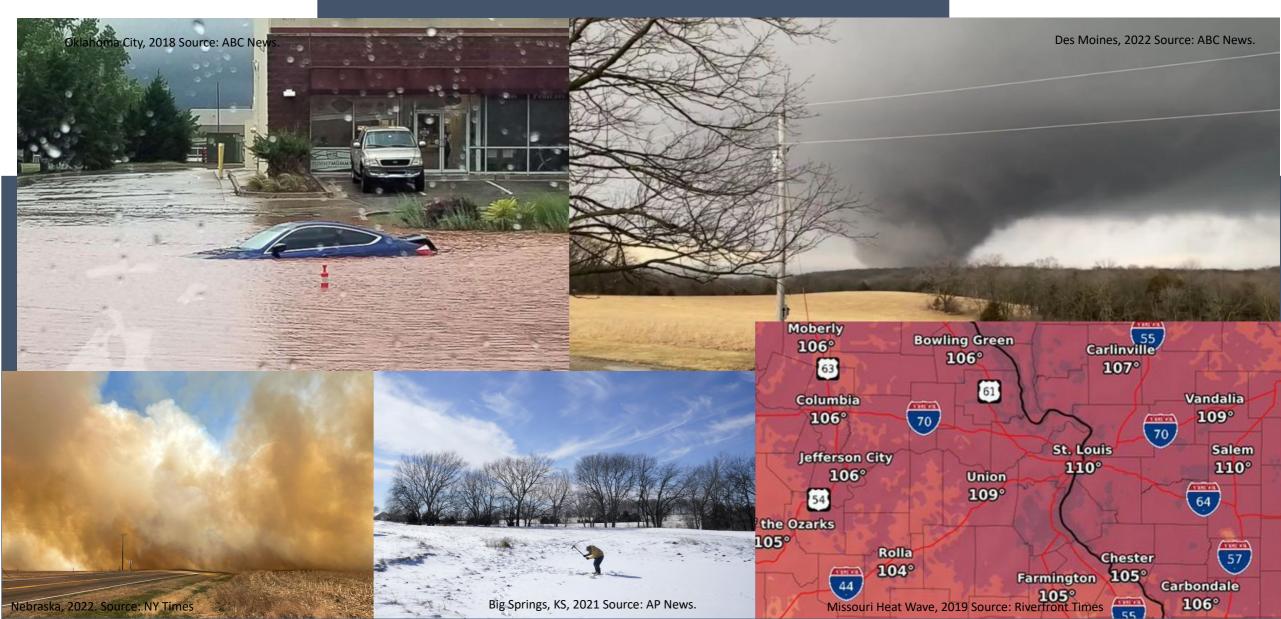
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What is resilience?

The ability to prepare for changing conditions and withstand, respond to and recover from disruptions.

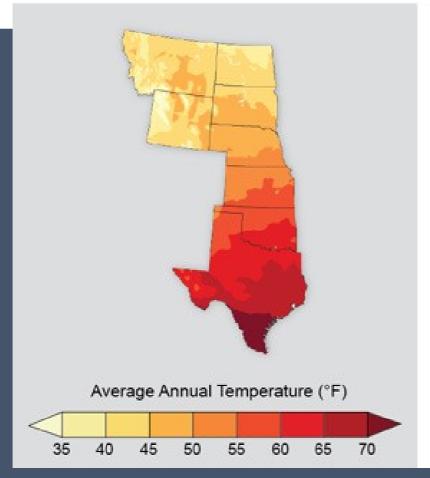
- US Department of Transportation, Federal Highway Administration

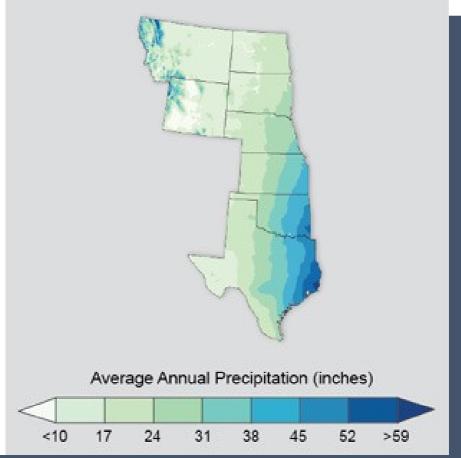
What is extreme weather?



What to expect in the Great Plains?

Temperature and Precipitation Distribution in the Great Plains





Source: USGRP, 2014

What is at stake in the transportation sector?







Resilience and Transportation

- Inclement weather causes congestion and crashes and delays.
 - Expansion of ITS devices would support weather responsive traffic management
- Regional coordination for traveler information and awareness
 - Alerts, high wind restrictions, road closures, etc.
- Design and implementation of new infrastructure
 - Infrastructure designed for the future climate scenarios



- \$50 billion is designated for climate resilience to help communities protect against droughts, heat, and floods
- The Promoting Resilient Operations for Transformative, Efficient, and Costsaving Transportation (PROTECT) Program
 - Establishes a formula and a competitive grant program to improve the resiliency of transportation infrastructure
 - Variety of eligibility resiliency activities such as planning, construction, technical capacity building



- What does short-term resilience look like for you and your organization?
- What does long-term resilience look like for you and you organization?
- What's needed to help you, your company and your state achieve resilience?
- How can ITS Heartland and ITS America help?



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