





Forth's mission is to electrify transportation by bringing people together to create solutions that reduce pollution and barriers to access.



Access to Electric Cars

Forth builds programs for drivers who have traditionally faced the most barriers to electrification.

Access to Charging

Forth is working to make it as easy to charge a car as it is to park a car.





Progressive EV Policy
We build influence and
knowledge at the national,
state and local levels.

Events & Partnerships
Forth convenes diverse
stakeholders to collaborate and
advance equitable
transportation systems.

Access to Emerging Modes
We're increasing access to
micromobility, electrifying farm
equipment, school buses, and
supporting e-mobility in lowerincome countries worldwide.

Agenda



- Basics of EVs (15 min)
- Charging (15 min)
- Q/A (10 min)
- Break (10 min)
- ID NEVI Plan Presentation (15 min)
- Table Breakout: Stakeholders (35 min)
- Break (10 min)
- ID Power presentation (15 min)
- Table breakouts around Specific Locations (30)
- Final Q/A



Electric Vehicle Types



Battery Electric Vehicle

- 100% electric
- Plug-in to recharge
- Ex: Chevy **Bolt**, Ford Mustang Mach-E, all Teslas (pictured)

Plug-in Hybrid Vehicle

- Both electric and gasoline powered
- Most have an "Electric only" mode
- Plug-in to recharge, fill tank when needed
- Ex: RAV4 Prime (pictured), Kia Niro PHEV,
 Chevy Volt, BMW i3 w/ Range extender





Some More BEVs







2023 Kia EV6

2022 Hyundai Ioniq

2023 Blazer EV







2023 Ford Mustang Mach-E

2023 Nissan Ariya

2024 Polestar 3

Even if the vehicles aren't particularly easy to find in ID, they will be here sooner than you think

Trucks/SUVs here or coming soon





Ford 150 Lightning



Rivian R1S SUV



2023-24 Chevrolet Silverado EV



2024 GMC Hummer EV SUV



2025 RAM 1500 REV



2024 Kia EV9

Some Vehicle Cost Trends



- 1. Small Battery Entry model vs Longer range (Larger pack) models only available in a higher trim. **Don't trust the "Starting at" phrase**
- 2. Usually AWD option adds \$2500-5000+ and reduces range by 5-10%
- 3. Range, Size, and AWD basically determine price with few exceptions
- 4. Demand > Supply for most vehicles models right now

If you have questions about Vehicle cost trends, write them down!



EV tax incentives

EV Federal tax credit - for new vehicles



Clean Vehicle Credit

- \$7,500 non refundable tax credit
 - \$3750 domestic battery assembly
 - \$3750 domestic critical minerals
- Types of restrictions
 - Income restrictions
 - \$150,000 individual
 - \$300,000 household
 - MSRP caps
 - SUV, pickup truck, van \$80k
 - Sedan/Hatchbacks \$55k

Internal	Revenue Service	Go to www.irs.gov/Form8936 for	instru	ctions and the latest informa	ition.	Sequence No. 09
Nameo	s) shown on return					Identifying number
electr	ic vehicles acqu	for qualified plug-in electric drive motor v uired before but placed in service in 2022 e definitions and other requirements.				
Par		e Credit				
		on for each vehicle. If you need more column				
		8936 and include the totals on lines 12 and		(a) Vehicle 1		(b) Vehicle 2
1	Year, make, ar	nd model of vehicle	1			
2	Vehicle identifi	ication number (see instructions)	2			
3	Enter date veh	icle was placed in service (MM/DD/YYYY)	3			
4a		s a two-wheeled vehicle, enter the cost of the vehicle has at least four wheels, see	4a			
	instructions .		40			
b	Phase-out per	centage (see instructions)	4b		%	9
c	Tentative cred	it. Multiply line 4a by line 4b	4c			
	If you did NOT	use your vehicle for business or investment Part III. All others, go to Part II.	purpo	ses and did not have a crec	dit from	n a partnership or S corporation
Part	Credit f	or Business/Investment Use Part of	Vehi	ole		
5	Business/inve	stment use percentage (see instructions)	5		%	9
6		c by line 5. If the vehicle has at least four lines 7 through 10 blank and go to line 11	6			
7	Section 179 ex	xpense deduction (see instructions) .	7			
8	Subtract line 7	from line 6	8			
9	Multiply line 8	by 10% (0.10)	9			
10	Maximum cred	dit per vehicle	10	2,500		2,50
11	amount from	with four or more wheels, enter the line 6. If the vehicle is a two-wheeled the smaller of line 9 or line 10	11			
12	Add columns	(a) and (b) on line 11			12	
13	Qualified plug- (see instruction	in electric drive motor vehicle credit from p	13			
14	S corporations	estment use part of credit. Add lines s, stop here and report this amount on Sch rm 3800, Part III, line 1y	14			
Moto:	Complete P-+	III to figure any credit for the personal use p	nast -	f the vehicle		
	Complete Part	iii to rigure any creus for the personal use p	pert 0	t the vernore.		
or Pa	aperwork Reduct	ion Act Notice, see separate instructions.		Cat. No. 37751E		Form 8936 (Rev. 1-20)

Qualified Plug-in Electric Drive Motor Vehicle Credit

EV Federal tax credit - for used vehicles



Previously Owned Clean Vehicles

- \$4,000 or 30% of the vehicle sale price (whichever is lower)
- Types of restrictions
 - Income restrictions 75k Filing Single | 150k Married
 - Vehicle type
 - 2+ yrs old
 - <14,000 lbs (Class 1-3)
 - **<**\$25,000
 - Not have previously used the credit (check by VIN)
 - Sold by a dealership
 - Credit can be claimed once every 3 yrs

	Revenue Service Go to www.irs.gov/FormosGo for	instru	ctions and the latest informa	ition.	Despendents. 00		
Nameo	s) shown on return				Identifying number		
electr	This credit is for qualified plug-in electric drive motor v ic vehicles acquired before but placed in service in 2022 ctions for vehicle definitions and other requirements.						
Par	Tentative Credit						
	separate column for each vehicle. If you need more colum dditional Forms 8936 and include the totals on lines 12 and		(a) Vehicle 1		(b) Vehicle 2		
1	Year, make, and model of vehicle	1					
2	Vehicle identification number (see instructions)	2					
3	Enter date vehicle was placed in service (MM/DD/YYYY)	3					
4a	If the vehicle is a two-wheeled vehicle, enter the cost of the vehicle. If the vehicle has at least four wheels, see instructions	4a					
Ь	Phase-out percentage (see instructions)	4b		%	%		
c	Tentative credit. Multiply line 4a by line 4b	4c					
	If you did NOT use your vehicle for business or investment art II and go to Part III. All others, go to Part III.	purpo	oses and did not have a crea	dit fro	m a partnership or S corporation.		
Part II Credit for Business/Investment Use Part of Vehicle							
5	Business/investment use percentage (see instructions)	5		%	%		
6	Multiply line 4c by line 5. If the vehicle has at least four wheels, leave lines 7 through 10 blank and go to line 11	6					
7	Section 179 expense deduction (see instructions) .	7					
8	Subtract line 7 from line 6	8					
9	Multiply line 8 by 10% (0.10)	9					
10	Maximum credit per vehicle	10	2,500		2,500		
11	For vehicles with four or more wheels, enter the amount from line 6. If the vehicle is a two-wheeled vehicle, enter the smaller of line 9 or line 10	11					
12	Add columns (a) and (b) on line 11			12			
13	Qualified plug-in electric drive motor vehicle credit from p (see instructions)						
14	4 Business/investment use part of credit. Add lines 12 and 13. Partnerships and S corporations, stop here and report this amount on Schedule K. All others, report this amount on Form 3800, Part III, line 1y						
Note:	Complete Part III to figure any credit for the personal use						
					Form 8936 (Bay 1-2021		
	aperwork Reduction Act Notice, see separate instructions.		Cat. No. 37751E				

Qualified Plug-in Electric Drive Motor Vehicle Credit

Used BEVs under \$30k





Chevy Bolt EV 238 mile range 2017-2019



Nissan Leaf 150 mile range 2018-19



Hyundai Kona EV 258 mile range 2018-19



Kia Niro EV 238 mile range 2018-19



Hyundai Ioniq EV 125 mile range 2018-19 170 miles 2020

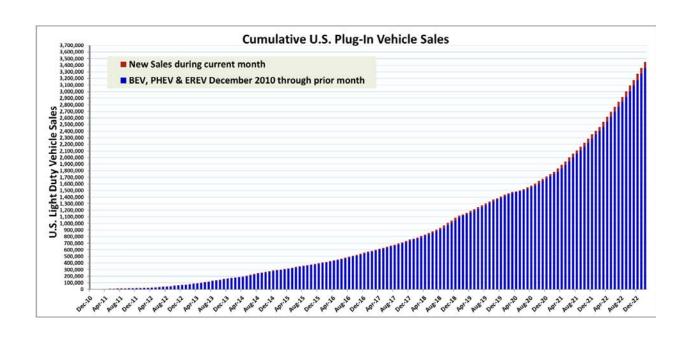


2019 Tesla Model 3* 240 mile range 2019

Almost 3.5 Million Electric Cars sold since 2010!



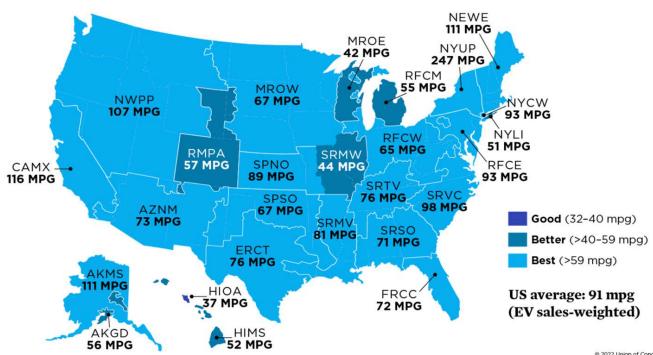
PHEVs and BEVs



EVs are getting even Cleaner



Comparing Emissions: Driving the Average EV as a Gasoline MPG Equivalent, 2020



EVs are fun to drive!



- Instant acceleration and torque Lower center of gravity for tight handling Quiet
- Regenerative braking





Nothing is Perfect



EVs are still expensive

Public charging experience can be rough (Especially in Rural locations)

Affordable Long Range AWD vehicles

Weather can dramatically impact range

Trends



- 200-250 miles of range standard for short-range vehicles
- 300+ miles of range standard for longer range
- Towing still a conundrum due to battery size/range/weight/aerodynamics
- Costs of many new vehicles types will remain high for a few more years
- Utilities understanding how EVs integrate into their existing systems







Level Setting for EV Charging

(Pun intended)

Electric vehicle charging - Level 1



- Cable almost always included w/ car even used
- 2-5 miles gained per hour of charge (light-duty vehicles)
- Best for
 - Plug-in hybrids
 - Short commutes
 - People that don't drive every day
- Nationally Recognized Testing Laboratory Listed (Intertek or UL Listed)
- Costs \$0 unless you need to buy a cord or run a dedicated outlet to where your car parks





Electric vehicle charging - Level 2



- 12-40 miles gained per hour of charge
- Ideal for installation in homes, apartments, or workplace
- Home chargers to install usually cost between \$500-\$5000
- Public chargers cost \$2000-\$20,000+ per charger installed









240 Volt Outlet or Hardwired

Standard Port

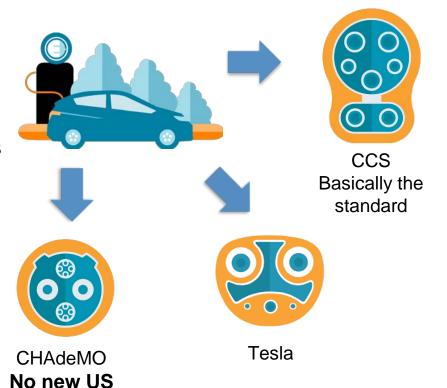


DC Fast charging (Level 3)



10->80% in 15-60 minutes depending on

- Charger's Max charging speed
- Vehicles Max charging speed
- Battery management System factors
 - Temperature of battery
 - Ambient Temperature
- State of charge start/stop
- Costs >\$100,000 per charger



models use this

Slowest	-		
Level	Level 1	Level 2	DC Fast Charging
Use Case	Home	Home/Work/Public	Public
Power	<2 kW (Usually 1.2 kW)	2.4 - 19.2 kW (Usually 6.7 kW)	25 - 350 kW (Usually 150, 50, or 250 kW respectively)
Plug Shape (Into Vehicle)	J1772	J1772	CCS CHAdeMO Tesla
Outlet Shape	120 V	240 V	Electric Vehicle Supply Equipment (EVSE)
Cost	\$	\$\$	\$\$\$\$

Alternative Fuel Vehicle Refueling Property Credit



For Individuals:

- Beginning January 1, 2023
- Purchase qualified equipment may receive a tax credit of up to \$1,000
- Non refundable
- You must file your taxes to claim the credit

Alternative Fuel Vehicle Refueling Property Credit OMB No. 1545-0123 Attach to your tax return. Attachment Department of the Treasur Go to www.irs.gov/Form8911 for instructions and the latest information. Internal Revenue Service Identifying number Part I Total Cost of Refueling Property Total cost of qualified alternative fuel vehicle refueling property placed in service during the tax year (see What's New in the instructions) Part II Credit for Business/Investment Use Part of Refueling Property of a project subject to project requirements that were not met (see instructions) 5a Multiply line 4b by 6% (0.06) Alternative fuel vehicle refueling property credit from partnerships and S corporations (see Business/investment use part of credit, Add lines 7 and 8. Partnerships and S corporations. stop here and report this amount on Schedule K. All others, report this amount on Form 3800, Part Credit for Personal Use Part of Refueling Property Subtract line 2 from line 1. If zero, stop here: do not file this form unless you are claiming a credit Individuals. Enter the sum of the amounts from Form 1040, 1040-SR, or 1040-NR. line 16, and Schedule 2 (Form 1040), line 2. Other filers. Enter the regular tax before credits from your return. 15 Credits that reduce regular tax before the alternative fuel vehicle refueling property credit: a Foreign tax credit b Certain allowable credits (see instructions) Net regular tax. Subtract line 15c from line 14. If zero or less, enter -0- and stop here: do not file this form unless you are claiming a credit on line 9 17 Tentative minimum tax (see instructions): Individuals, Enter the amount from Form 6251, line 9. . Other filers. Enter the tentative minimum tax from your alternative minimum tax Subtract line 17 from line 16. If zero or less, stop here: do not file this form unless you are 1040), line 6j; or the appropriate line of your return. If line 18 is smaller than line 13, see Form 8911 (Rev. 1-2023

Talk with a Tax expert to learn more

Alt Fuel Refueling Property Credit—Businesses (+ other orgs)



- Beginning January 1, 2023
- Nonrefundable
- Non taxable entities (\$ delivery method unconfirmed)
- Eligible for a tax credit
 - 6% or up to \$100,000 per port so long as:
 - Property subject to depreciation
 - 30% (or up to \$100,000) if:
 - Prevailing Wages
 - % of work done by apprentices
 - Location specific
 - Not an urban area
 - Poverty rate is at least 20%
 - median family income is less than 80% of the state median family income level

Alternative Fuel Vehicle Refueling Property Credit OMB No. 1545-0123 Attach to your tax return. Attachment Go to www.irs.gov/Form8911 for instructions and the latest information Total Cost of Refueling Property Total cost of qualified alternative fuel vehicle refueling property placed in service during the tax Part II Credit for Business/Investment Use Part of Refueling Property of a project subject to project requirements that were not met (see instructions) Business/investment use part of credit. Add lines 7 and 8. Partnerships and S corporations. stop here and report this amount on Schedule K. All others, report this amount on Form 3800, Part Credit for Personal Use Part of Refueling Property Subtract line 2 from line 1. If zero, stop here: do not file this form unless you are claiming a credit Individuals. Enter the sum of the amounts from Form 1040, 1040-SR, or 1040-NR line 16, and Schedule 2 (Form 1040), line 2. Other filers. Enter the regular tax before credits from your return. Credits that reduce regular tax before the alternative fuel vehicle refueling property credit: b Certain allowable credits (see instructions) Net regular tax. Subtract line 15c from line 14. If zero or less, enter -0this form unless you are claiming a credit on line 9 17 Tentative minimum tax (see instructions) Individuals, Enter the amount from Form 6251, line 9. . Other filers. Enter the tentative minimum tax from your alternative minimum tax



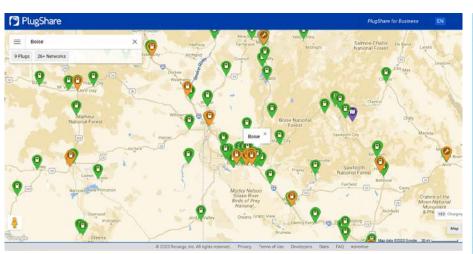
How to Find and Use EV chargers!

Find Public Charging Stations





Chargeway (App only)



PlugShare (Website & App)

Public EV Charging Companies have **phone apps** that can be used to find chargers and start charging sessions



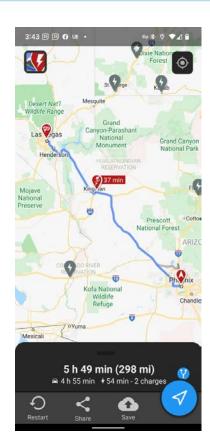
ChargeHub (Website & App)

Travel longer distances



Apps like **A Better Route Planner** or **Chargeway**

- Plan longer trips and see charging times
- How long to expect to be charging





How to use a charger?



- Read instructions at site
- 2. Using Phone apps
 - a. Download app
 - b. create an account and card details
- When in doubt, plug in charger and start the charge through the phone app
- Swipe/tap credit card should also be available at DC chargers
- 5. Check that you're starting the charge on the right charger (find charger ID to help with this)
- 6. Sometimes chargers will need rebooting, in which case a phone call may be required
 - a. Check charger for phone number



The Future will be better



Plug and Charge Protocols (Like what Tesla already has)

Simply plug in and charging will start quickly and account associated with the car will be billed



Charging Use Cases

Charging use cases put simply



Single Family Homes-L1/L2

Multi-Family Homes- L2 but it can depend on electrical configuration

Public charging-L2/DC

Destination- L2

Workplace- L1/L2 (very unusual cases DC)

Corridor charging-DC

Fleet (depends on fleet vehicles/use profile)



It is all about how long the car is parked for

Light/Medium Duty VS Heavy Duty Charging



Key differences are

- More space needed
- Turning Radiuses
- Charging speeds
- Utility infrastructure
- Battery storage
- Faster Charging speeds (MegaWatt Charging Standard-MCS)



Multi-Family Charging





- Many barriers such as:
 - Parking constraints
 - Electrical access
 - Electrical Capacity
 - Internet signal
 - Billing
 - Appropriately allocating costs
 - HOAs, where applicable
- Hard to want to buy an EV if you don't know where you're going to charge it
- People want to charge where they park

Workplace Charging



- Workplace charging implementation
 - Employee amenity
 - Can double for Fleet charging when not used by employees
 - Customers
 - ROI possible
- Resources on planning, organizing, and executing successful and educational workplace charging events in the <u>Clean Cities Workplace Charging</u> Toolkit.



Public Charging Overview



- Level 2 or DC fast charging
 - Should be deployed based on community needs
 - At destinations like business or neighborhood parks
 - Along highway corridors or at urban charging hubs
- Builds range security (as opposed to range anxiety)
- Destination charging can sometimes be public charging



Corridor Charging



Primarily DC chargers

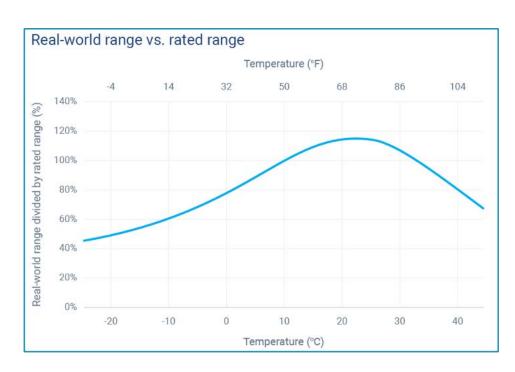
Best for:

- Long distance trips
- Regular mid-distance trips
- If you live nearby, backup for a lack of access to chargers at SF or MF homes



EV Range and EV charging planning





Multi-Model Study on EV Range done by GeoTab

Reason for deviation from Rated Range

- Speed
- Use of A/C or heater
- Steep terrain
- Outside temperature

Plan Smarter

- Chargers may need to be closer together in hilly areas
- Amenities, especially somewhere temperature controlled becomes critical in rural areas
- Winter vs. Summer Travel patterns



Ownership Models

Public EV Charger Ownership Models



Primary Stakeholders:

- Charging service provider
 Host site
- 3. Funder, if applicable

Two Primary methods of Charger ownership:



- 1. Host site owned/maintained with charging service provider agreement/contract
- 2. Charging service provider owned/maintained with host site agreement/contract

EV Charger Ownership Model Details



- 1. Host site owned with charging service provider agreement
 - a. Host site controls cost to charge, accessibility, pays CSP for features like notifications/reservation systems, internet connectivity, and financial transaction fees
 - b. Sometimes revenue sharing agreements
- 2. Charging service provider owned with host site agreement
 - a. CSP controls cost to charge
 - b. Revenue sharing agreement
 - c. Specific timeframe for services offered



Questions on EVs and EV Charging? Q/A + Mini Break

Up Next: Presentation on Idaho's NEVI Plan from Emily with ID OEMR

Idaho NEVI Plan With Emily Her!





WHAT IS THE NEVI FORMULA PROGRAM?

The National Electric Vehicle Infrastructure (NEVI) Program was enabled through the Bipartisan Infrastructure Law (BIL) and established by the Federal Highway Administration (FHVWA) to provide states with federal funding to strategically deploy EV charging infrastructure and establish an interconnected network of EV charging stations across the United States.

HOW MUCH FUNDING IS AVAILABLE?

The State of Idaho will receive just under \$30 million dollars throughout FV22-26. Federal cost-share for the NEVI Formula Program is 80%. Stations will be funded through public-private partnership. The State will not own or operate NEVI-funded changing stations.

WHEN WILL APPLICATIONS OPEN?

Throughout October 2022 - August 2023, the State of Idaho will conduct a study to provide a detailed analysis of fast charging deployment. After the study is complete, the State will create an action plan for the solicitation of applications.



ARE THERE REQUIREMENTS FOR NEVI STATIONS?

Ves. Direct current fast changing (IDCFC) stations built with NEVI Formula Program Funds must have at least four CCS ports capable of ISO kW output each, for a combined station total output of at least 600 kW. Each year, states nominate major roadways for Alternative Fuel Corridor (AFC) designation. NEVI Formula Funding must be used to install DCFC less than one mile from and

at 50-mile intervals along designated AFCs. WHERE WILL NEVI STATIONS BE INSTALLED?

Stations will be installed along federally-designated AFCs. As of 2022, Idaho's AFCs are: 1-15, I-84, I-86, I-90, SH-1, US-95, US-93, US-12, US-20, US-30. Additional corridors may be designated in future years.

WHERE CAN I GET MORE INFORMATION?

Get updates on the State of Idaho's NEVI Program and other electric vehicle opportunities by visiting: https://oemr.idaho.gov/programs/nationalelectric-vehicle-infrastructure-program/







OVERVIEW

- The National Electric Vehicle Infrastructure (NEVI) Formula Program was established through the Bipartisan Infrastructure Law passed in 2021
- Funds electric vehicle (EV) charging infrastructure in each state
- In 2022, ITD, OEMR and DEQ collected feedback from stakeholders across the state
- This feedback was used to develop Idaho's NEVI Plan
- Idaho's plan was approved by the FHWA in September 2022





NEVI CHARGING STATION REQUIREMENTS

Locations for DCFC NEVI charging stations will need to meet the following requirements:

- 50 miles apart and less than 1 mile from an EV Alternative Fuel Corridor
- Power grid capacity
- Provide public restrooms, lighting, shelter and ADA access
- Available on rural corridors and to underserved communities
- Assure long-term operation and maintenance
- Foster public-private investment in EV infrastructure

EVS IN IDAHO

Between 2020-2022, Idaho saw a **270% increase** in EV and Hybrid ownership.

YEAR	ELECTRIC	HYBRID PLUGIN	TOTAL
2020	1871	137	2,008
2021	3250	1014	4,264
2022	5,394	2,031	7,426



PHASE I PUBLIC OUTREACH

ITD, OEMR, and DEQ coordinated through an interagency partnership to gather feedback from representative groups to ensure equity in planning efforts. These groups included:

- Minority / Underrepresented Groups
- Industry & Industry Associations
 - Chambers of Commerce
 - Large employers
 - Trucking
 - Vehicle Manufacturing
 - Auto dealers
 - Utilities
 - Labor
 - Economic Development
- Education
- Environmental Groups
- Municipalities
- Government Agencies



CHARGING STATION FEEDBACK

The areas of concentration on the map shows potential locations of Level III charging stations along Alternative Fuel Corridors based on feedback from stakeholders from specific industries and the public at-large.

Some common areas of focus were along the following highways:

- SH 55
- US 95
- 190
- 184
- 186
- I 15



SCAN QR CODE TO SEE FULL PLAN

IDAHO'S APPROVED PLAN

After compiling feedback through public involvement efforts, ITD, OEMR and DEQ submitted their plan to the FHWA in August 2022. FHWA sent their approval of the plan in September 2022.





PHASE II: SITING, FEASIBILITY & ACCESS STUDY

The Siting, Access, and Feasibility Study will help prioritize EV charging station locations by considering:

- Greatest number of drivers served
- Greatest need (considerations related to rural areas, and FHWA rule exceptions related to distance between stations)
- Greatest economic benefit to host and/ or community
- Physical attributes of potential EV charging station locations
- Future growth/ continuity
- Equity of potential/proposed site locations and features, specifically as they pertain to Idaho's tribal and minority populations
- Terrain, weather and access to potential locations



PHASE II: SITING, FEASIBILITY & ACCESS STUDY

- GIS mapping of network data and electrical supply
- Prioritization process, propose NEVI compliant station locations
- Economic cost modeling
- Exception documentation
- Policy and research
- Design and access recommendations
- Site construction
- Resilience, emergency evacuation, seasonal needs
- Procurement, evaluation and contracting
- Operations and maintenance
- Equity and workforce development considerations





NEXT STEPS: PUBLIC OUTREACH

ITD, OEMR, and DEQ will also be providing opportunities for the public to review the current plan, ask questions and provide feedback. These will include:

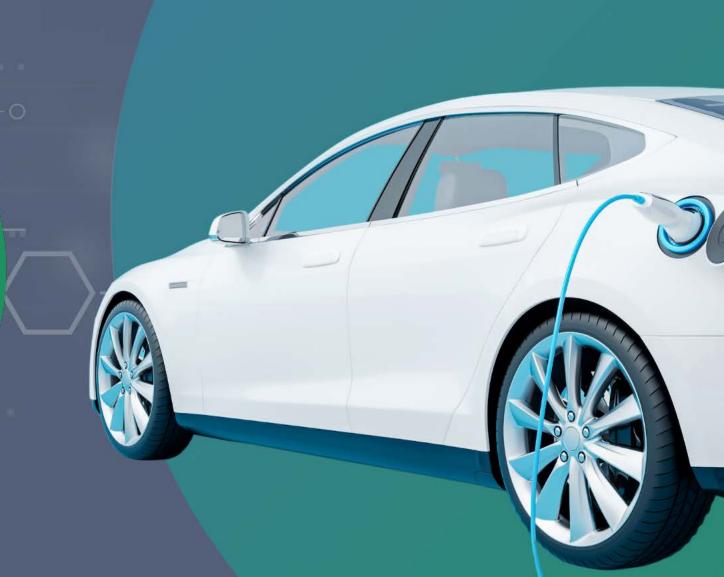
- Public meetings hosted across the state
- Utilize expertise from advisory groups
- Online survey
- Email updates from project team



FUNDING FOR SITES

20% Site Host

> 80% NEVI Funds



NEVI GRANT INFORMATION

An outcome of Phase II will be to launch two beta charging station locations.

If you are interested in being considered as one of those potential beta locations, you can contact the project team at info@evidaho.com.

Additional grants and opportunities for DCFC stations will be available after the study is complete and site criteria has been determined.



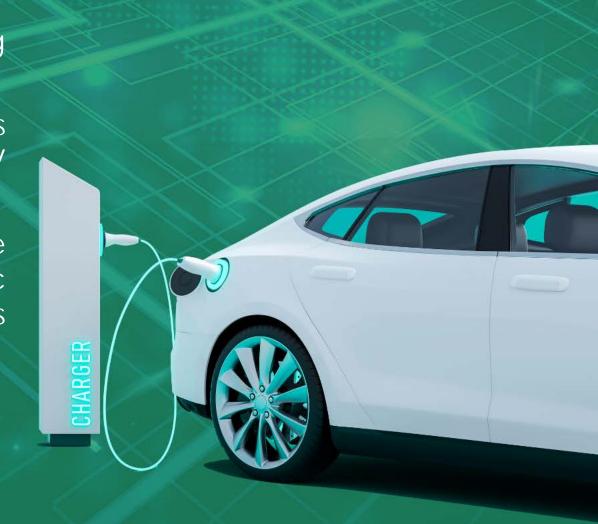


GRANTS FOR CITIES & COUNTIES

NEVI funding is only available to areas along Alternative Fuel Corridors.

Other federal grants are available to cities and counties interested in building EV charging stations.

These additional charging stations will be vital in bringing tourism and economic development to rural communities across Idaho.



APPLICATION

Counties and municipalities can apply for grants to support the building of EV charging infrastructure in areas that don't qualify for NEVI funding.

To find out if your community qualifies and to apply for a grant, scan the QR code.







CONTACT US

info@evidaho.com









Up Next: Table Breakouts on Stakeholders



What are the city's goals?

How do we plan for these goals?

Keep these questions in mind



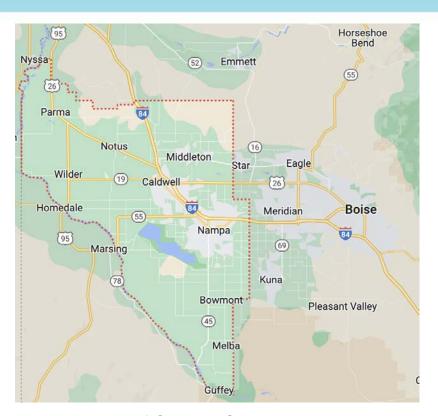
Table Breakout around Stakeholders



Get into groups of 4, ideally with at least one representative from a City in each group

If you do not have a City representative in your group, please raise your hand

Note take will be needed for each group



Map of Canyon County Idaho

Table Breakout around Stakeholders



Prompt #1: Make a Stakeholder List

- Who are the stakeholders in transportation issues?
- Who might we be missing?
- What motivates each group of stakeholders?

What you should do!

- Write down Stakeholders
- Write down questions you have



Map of Ada County Idaho

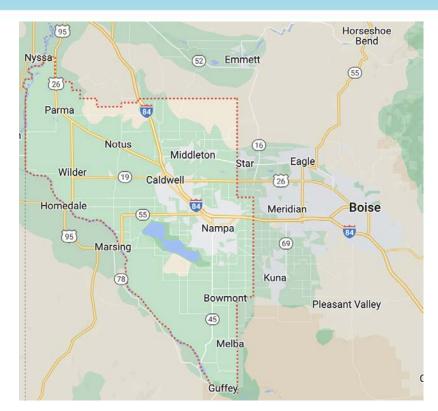
First: Let's make a list & check it twice (5 min)



Table 1 states their stakeholder groups

Table 2 states any stakeholders that Table 1 didn't have

Table 3 states any stakeholders that Table 1 and 2 don't have... Until there are no more stakeholders on anyone's pages



Map of Canyon County Idaho

Second: Reflection (10 min)



Take two minutes and write down 1 question and 2 thoughts

Compile group's questions into a list

Large Group share out



5 Minute Break (10 min) Up Next: Idaho Power Presentation with Patti Best



Patti Best Senior Program Specialist-Transportation Electrification

Electric Vehicles













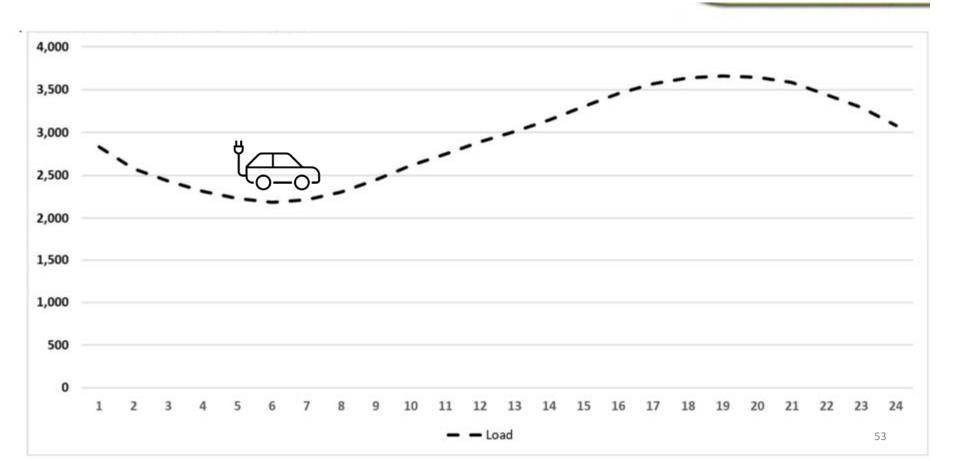


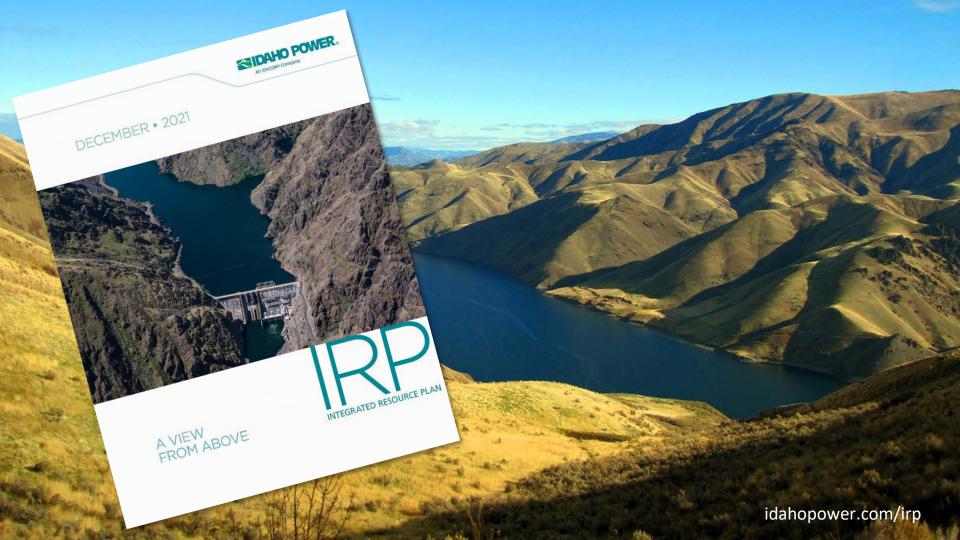






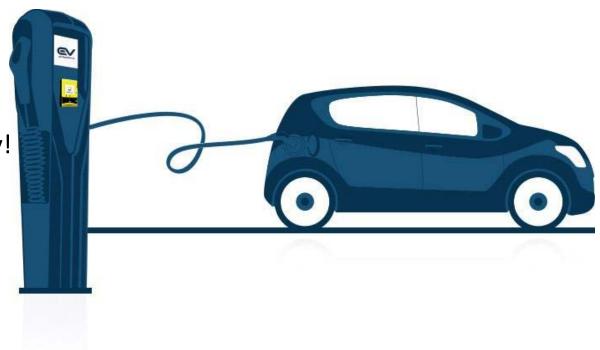
Typical System Load





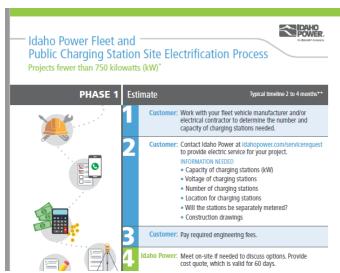
Best Practices

- Right size
- Managed charging
- Get with utility early!



Services and Site Design

- General Education/Participate in Stakeholder Groups
- Site Evaluations
 - Estimates: Assess capacity at a high level and needed upgrades.
 - Free but not binding
 - Formal Cost Quotes
 - Good for 60 days
 - May require engineering fees paid upfront
- Billing Evaluations
- Letters of Support



We are electrifying too!



In 2020, we re-affirmed our commitment to continue electrifying our fleet by setting the following 2030 goals:

75%
Passenger Cars

75% electric and 100% of new purchases will be electric

35% Other Vehicles

Including SUVs under 8,600 pounds: 35% will be electric 75% Forklifts

75% electric and 100% of new purchases will be electric





Up next: Breakout on Specific Cities

But First: Oregon for Example



- Currently 80-90% of charging takes place at home.
- Moving to an all-electric future requires convenient and accessible charging for all – especially those who face the most barriers
 - Drivers in apartment complexes
 - Low-income drivers
 - Predominantly BIPOC communities

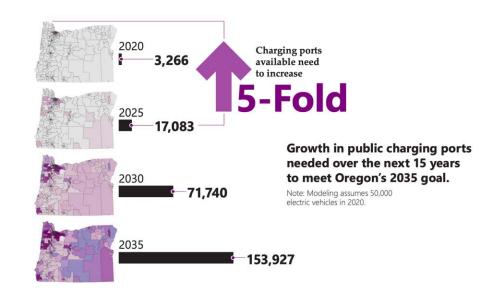


Table Breakout: Planning for Charging in Cities



Let's discuss specific locations!

What types of destinations are in your city?

Where do people travel? Where do they park?

Which stakeholders are involved in different places people park?

What do you need to justify charging in a location? > 50



Do you have good data?

What data would be useful?

How are communities involved? EV owners? **Underserved communities?**

How often do we need to reevaluate?

Reflection (5 min)



Take two minutes and write down 2 questions and 1 thought

Compile group's questions into a list

ENABLING COMMUNITY ACCESS TO CHARGING FUNDS



- Forth workshop to help communities win federal TE funding May 15: https://www.roadmapforth.org/rm23/workshop
- Make sure the money is spent efficiently and in ways that center equity
- Matchmaking partners and funding sources
- Educating local governments excited about applying
- If the groups with the most barriers receive public investments, everyone benefits





