

Major Federal EV Subsidy for Automakers & Battery Manufacturers

Federal Indiana

Federal			Website
45X Advanced Manufacturing Production Tax Credit (PTC)	Program	 Per-unit tax credit for production of battery cells & modules in U.S. Runs from 2023 to 2032, with the value of credits phasing down starting in 2030. Also provides 10% credit for production of key battery inputs – such as critical minerals and electrode active materials. 	IRA Update: Section 45X & Section 48C Mintz
	Value	 \$35/kwh for battery cells production and \$10/kwh for battery module. It represents around one-third of current battery costs. Will be an even greater share of costs as battery prices decline. BEV battery capacity is typically around 50-200 kWh per vehicle. For a BEV with 100 kwh battery, the PTC is worth \$4,500 per vehicle. Major battery cell plants are typically 30 to 40 GWH of annual capacity. If a plant produces 30 GWH of battery cells annually, it can generate over \$1 billion in battery cell PTC credits annually. J.P. Morgan estimated 45X battery cell & module PTC could generate over \$150 billion in tax credits through 2032 for battery makers and JV partners.¹ Ford CEO Jim Farley: "From '23 to '26, we estimate a combined available tax credit for Ford and our battery partners could total more than \$7 billion with large step-up in annual credits in '27 as our JV battery plants ramp up to full production."² GM CFO Paul Jacobson: "We expect that clean energy tax credits will be a material tailwindFor 2023, we anticipate at least \$300 million in EBIT-adjusted benefit and expect this tailwind to increase significantly over the next few years as our cell production ramps"³ 	
	Notable Conditions	Production must occur in the U.S.	
	Beneficiaries	 Battery manufacturers and OEM partners. Largest battery manufacturers are LG, SK, Samsung, Panasonic, Envision & CATL. Most major auto OEMs are planning battery production in U.S. with major battery makers. Big Three JV plants will be major beneficiaries: GM-LG-Ultium (3), GM-Samsung (1), Ford-SK (2), Ford-CATL (1), and Stellantis-Samsung (1) 	
30D Consumer Tax Credit	Program	 Revised under IRA, 30D provides consumer tax credit of up to \$7,500 for the purchase of BEV or PHEV that meets content and price cap requirements. IRA also lifted the manufacturer sales cap on accessing the credit, which GM and Tesla has already hit. 	Credits for New Electric Vehicles Purchased in 2022 or Before Internal Revenue Service (irs.gov)
	Value	 Consumers can receive \$3,750 or \$7,500 in tax credits for qualifying BEVs or PHEVs. Precise value to OEMs is unknown. Credits can be used to increase EV sales through lower prices or help EV profitability by padding higher prices. 	
	Notable Conditions	 Final assembly in North America required to qualify for credit. Credit of \$3,750 if vehicle meets critical mineral content requirements (North America or Free Trade Agreement countries) Credit of \$3,750 if vehicle meeting battery component content requirements (North America) Previously owned clean vehicles (also known as "used vehicles") are eligible for a tax credit of up to \$4,000 The minimum battery capacity must be 7 kilowatt hours Starting in 2024-2025, vehicle with battery & mineral content from "Foreign Entities of Concern" will be disqualified. Details remain TBD. Vehicle price cap: \$55k for cars, \$80k for pickup/SUV/Van Income Cap: \$150k individual, \$300k for couples 	

		• Any OEM producing EVs in North America. For now, biggest beneficiaries are GM , Ford , Stellantis , and Tesla.	
	Beneficiaries	Big Three expect most of their EVs to qualify for some or all of the credit.	
		Major battery makers with North American footprint will see increased demand from OEM customers/partners. Major battery makers with North American footprint will see increased demand from OEM customers/partners.	
		Most major OEMs plan to build at least some EVs in North America and eventually qualify for credit.	
		• For heavy duty vehicles (over 14,000 lbs.), program provides credit up to \$40,000 for purchase of EV.	
	Program	• For light-duty vehicles, credits provide up to \$7,500 for "commercial" light duty vehicles	
		Definition of "commercial" includes any vehicle that can be claimed as a depreciating asset for tax purposes. This includes whicle lessed to consumers.	
		vehicle leased to consumers. • For light-duty, consumers can receive up to \$7,500 discount on leased or commercial EVs	-
45W		 Precise value to OEMs is unknown. Credit will contribute to EV profitability – either by increasing sales or profitability. 	
Commercial	Value	 Credit value is based on incremental cost difference of EV vs ICE. Over time, the value of credit may decline, but it is currently 	
Vehicle Tax		set at full \$7,500.	<u>Commercial Clean Vehicle</u>
Credit		 Unlike 30D, 45W commercial vehicle credit does not require North American assembly, regional battery or mineral content, 	Credit Internal Revenue
("Lease		price caps, or income caps.	Service (irs.gov)
Loophole")	Notable	• <u>"Lease Loophole"</u> : Treasury has determined that any leased vehicle is considered "commercial" for tax purposes. Leases	
	Conditions	create loophole for OEMs to get around 30D requirements. Leased vehicles are eligible for full \$7,500 even if they are used	
		for personal use by individual consumers, imported from outside North America, have no regional battery content, exceed	
		the price caps, or are purchased by wealthy consumers.	
	Beneficiaries	All OEMs & heavy truck OEMs, but particularly OEMs that import EVs, source batteries from Asia or Europe, or sell luxury	
	belleficiaries	brands to wealthy consumers.	
		Loan from the government, administered by the Dept of Energy, for investments in manufacturing of fuel-efficient vehicles &	
		components.	
	Program	Program now has around \$55 billion in total loan authority. ⁴	
		ATVM was dormant for years. Frequent target for cuts, UAW has been a supporter of program for its potential to subsidize	
Advanced		domestic auto investment.	
Technology	Value	ATVM significantly reduces borrowing costs for projects versus market rates. ⁵	Advanced Technology
Vehicle	value	Precise value of borrowing savings is unknown.	Vehicles Manufacturing Loan
Manufacturing	Notable	Investment must be in the U.S.	Program Department of
(ATVM) Loan	Conditions		Energy
Program		Ultium Cells (GM-LG) received a \$2.5 billion loan for investments in Lordstown (UAW), Spring Hill, and Lansing cell plants. ⁶	<u> </u>
		• Past recipients in 2009-2010 were <u>Ford</u> (\$5.9 billion), Tesla (\$465 million), and Nissan (\$1.45 billion). All three loans were	
	Beneficiaries	repaid. ⁷	
		• Ultium is largest current loan. Other recent loans are in other parts of EV supply chain: Syrah (\$102M for graphite plant in LA), loneer (\$700M for lithium project in NV),8 Redwood Materials (\$2B for battery recycling in NV),9 and Li-Cycle (\$375M for	
		battery recycling in NY). 10 Ioneer, Redwood, and Li-Cycle loans are conditional and not yet finalized.	
		\$2 billion grant program, administered by DOE, for production of EVs, PHEVs, hybrids, and FCEVs, including components.	
	Program	Old program, funded for first time through IRA.	
Domestic	Value	Program has \$2 billion in total. Award sizes unknown.	December Marie Control
Manufacturing		Production in U.S.	- Domestic Manufacturing
Conversion	Notable	Priority given to retooling existing manufacturing facilities that have recently ceased or will cease operation.	Conversion Grants
Grant	Conditions	50% cost share.	Department of Energy
		UAW called for labor standards in recent DOE RFI on grant program.	
	Beneficiaries	TBD. Major OEMs & suppliers, including potentially Big Three.	
		\$10 billion in investment tax credits for "advanced energy projects", including manufacturing of EV and components.	
	Program	48C originally created in 2009. IRA provides new round of funding.	
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		40C originally created in 2009. IKA provides new round of funding.	

		Production in U.S.	
	Value	TBD. Award sizes unknown. Credits can be up to 30% of value of investment. ¹¹	
48C Advanced		The 1 st round of awards is expected to be worth around \$4 billion. 12	
Energy Project Credit	Notable	At least \$4 billion of credits must go to "energy communities" (census tracts with fossil fuel production or coal mine closures)	
Credit	Conditions	Bonuses for prevailing wage & apprenticeships in building trades Facility cappet get both 486 investment credit and 457 production credit 13.	Qualifying Advanced Energy
		Facility cannot get both 48C investment credit and 45X production credit. ¹³	Project Credit (48C) Program
		TBD. Could include OEMs or battery makers – likely for components not covered by 45X PTC (ex: cells, modules, electrode	Department of Energy
	Beneficiaries	materials, or minerals). • Notice for 1st round of funding expected on May 31, 2023. 14	
	Deficienciaries	 In prior rounds of 48C tax credits in 2013, <u>Ford</u> received \$30 million to re-tool Michigan Assembly for hybrids and <u>GM</u> 	
		received \$20 million to re-tool Detroit-Hamtramck for the Chevy Volt and Cadillac ELR PHEVs. 15	
	Program	\$6 billion in grants for domestic production in battery supply chain.	
		Dept of Energy announced \$2.8 billion in awards to 21 companies in Oct 2022.16 Dept of Energy announced \$2.8 billion in awards to 21 companies in Oct 2022.16	
Bipartisan Infrastructure	Value	1st Round: \$50 - \$300 million grants per project. Production in U.S.	 Federal Funding Programs
Bill Battery	Notable	 Application included questions about labor organization partnership and "qood-paying jobs with a free and fair choice to join 	US Department of
Supply Chain	Conditions	or form a union". However, impact is unclear, few recipients of first funding round had agreements with labor unions.	Transportation
Grants		Microvast, in technology partnership with <u>GM</u> , to receive \$200 million to build a battery separator plant. ¹⁷ Originally planned	<u> </u>
	Beneficiaries	for Clarksville, TN, the plant is now planned for Hopkinsville, KY. 18 The "bulk" of the private investment in the plant is	
		 expected to come from Microvast, not GM.¹⁹ prioritizes projects maintaining collective bargaining agreements and high-wage hourly production workforces. It offers cost- 	Didon Harris Administration
		shared grants to promote the domestic production of various electrified vehicles, including hybrid, plug-in electric hybrid,	Biden-Harris Administration Announces \$15.5 Billion to
	Program	plug-in electric drive, and hydrogen fuel cell electric vehicles. The program aims to expand the manufacturing of light,	
		medium, and heavy-duty electrified vehicles and components, supporting vehicle assembly, component assembly, and	Support a Strong and Just Transition to Electric
		related part manufacturing facilities.	
Domestic	Value Notable	• \$2 billion	Vehicles, Retooling Existing Plants, and Rehiring Existing
Manufacturing Conversion	Conditions	Concept papers are due by October 2, 2023, with full applications due by December 7, 2023.	Workers Department of
Grant Program			Energy
		Projects selected for this funding must also contribute to the President's Justice40 Initiative, which aims to advance diversity,	CLEAN ENERGY
	Beneficiaries	equity, inclusion, and accessibility in America's workforce	INFRASTRUCTURE FUNDING
		Preference will also be given to projects that commit to pay high wages for production workers and maintain collective has reliable across months.	OPPORTUNITY
		bargaining agreements.	ANNOUNCEMENTS
		The DOE will evaluate the anticipated economic impacts of converting or directly replacing an existing factory with high-	Biden-Harris Administration
	Program	quality jobs, considering factors such as contributions to the local economy, employment history, projected employment, and	Announces \$15.5 Billion to
Advanced		the duration of its existence.	Support a Strong and Just
Technology Vehicles	Value	The DOE offers up to \$10 billion in loan authority	Transition to Electric
	Notable Conditions	Eligible projects include those that retain high wages, benefits, workplace rights, and other commitments, such as maintaining the existing facility until a new one is complete in the case of facility replacement projects.	Vehicles, Retooling Existing
Manufacturing Loan Program	Conditions	manituming the existing racinty and a new one is complete in the case of racinty replacement projects.	Plants, and Rehiring Existing
200	Beneficiaries	This initiative is aimed at applications from automotive manufacturing conversion projects that preserve high-quality jobs in	Workers Department of
	20	communities currently hosting manufacturing facilities.	Energy

Battery Materials Processing and Battery Manufacturing Grants Round II	Program Value Notable Conditions	 to expand domestic battery manufacturing and materials that are crucial for the growing clean energy sectors, such as electric vehicles and energy storage. 3.5 billion The goal is to aid the establishment of new, retrofitted, and expanded domestic commercial facilities dedicated to battery materials, components, and cell manufacturing. This initiative focuses on supporting the growth of the domestic industry, benefiting manufacturing workers, and promoting equity and environmental justice. The program will specifically assist communities with experienced auto workers and a history of vehicle production, applicants with strong workforce practices, and those aiming to create high-quality jobs. 	DOE Announces Availability 10 Billion Loan Authority Automotive Manufacturing Biden-Harris Administration Announces \$15.5 Billion to Support a Strong and Just Transition to Electric Vehicles, Retooling Existing Plants, and Rehiring Existing Workers Department of Energy CLEAN ENERGY INFRASTRUCTURE FUNDING
			OPPORTUNITY ANNOUNCEMENTS
		Indiana	
INDOT	Program	 A national initiative to create a network of at least 500,000 reliable chargers across the U.S. to support the growing adoption of electric vehicles. Charging stations locations will be determined by federal guidance and using a data-driven approach considering EV miles traveled, EV adoption rates and growth models, existing and planned stations, and electric grid capacity among other factors. INDOT will contract with partners to build Level 3 DC Fast Charge charging stations along Indiana's federally designated alternative fuel corridors (AFC's). 	
National Electric	Value	 INDOT is investing nearly \$100 million to build an electric vehicle (EV) charging network at strategic locations across Indiana. 	- INDOT: Electric Vehicle
Vehicle Infrastructure (NEVI)	Notable Conditions	 Selected locations must ensure convenient, equitable access for users in rural and urban areas and station capacity, design and location will promote usage by passenger EV's and medium- and heavy-duty EV's. EV charging infrastructure must be located every 50 miles along State's interstate highway system, within 1 mile of the Interstate. EV charging infrastructure must include at least four 150KW Direct Current (DC) Fast Chargers. 	Charging Infrastructure Network
	Beneficiaries	Additional Locations Support Consumers of EVs. This then indirectly encourages an increase in EV sales through less range anxiety or helps EV profitability by padding higher prices.	
IR NA's Chause	Program	Managers of commercial businesses and multi-unit dwellings are increasingly providing plug-in electric vehicle (PEV) charging stations to take advantage of the convenience and affordability of electric vehicles and to demonstrate their commitment to the environment. I&M has incentive programs to support Level 2 (240V) PEV charging in each of the sectors discussed below.	
I&M's Charge at Work in Indiana Small	Value	 Existing small-commercial customers who average less than 4,500 kWh per month of electricity are eligible for \$500 incentive and a discounted off-peak rate up to a 40% reduction from our standard rate. There is no fee to sign up. I&M will provide more information and detailed steps on the process once you apply. 	Charge at Work in Indiana (indianamichiganpower.com)
Commercial	Notable Conditions	 Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger An Indiana-registered employee-owned or company PEV. (Public Level 2 PEV chargers not tied to an Indiana-registered PEV are not eligible.) 	
	Beneficiaries	Small Commercial Businesses.	
	Program	 Managers of commercial businesses and multi-unit dwellings are increasingly providing plug-in electric vehicle (PEV) charging stations to take advantage of the convenience and affordability of electric vehicles and to demonstrate their commitment to the environment. I&M has incentive programs to support Level 2 (240V) PEV charging in each of the sectors discussed below. 	Charge at Work in Indiana (indianamichiganpower.com)

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I&M's Charge		Under this program, I&M pays \$250 per charging port if you can provide power to eligible Level 2 PEV chargers from behind	
at Work in Indiana	Value	their own electrical panels.	
Commercial		There is no fee to sign up. I&M will provide more information and detailed steps on the process once you apply. I also to the process once you apply.	
and Industrial		Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Must provide this independently, Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Must provide this independently, Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Must provide this independently, Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Must provide this independently, Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Must provide this independently, Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Must provide this independently, Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240V) charger. Needs a submeter from I&M between your electrical panel and PEV Level 2 (240	
Properties	Natabla	but if a customer needs new electrical service from I&M for Level 2 PEV charging, I&M still can pay the customer \$250 per	
(Multi-Unit	Notable Conditions	charging port if I&M's anticipated revenue from the charging meets I&M's state approved criteria for adding new service	
Dwellings)	Conditions	 without customer investment. An Indiana-registered employee-owned or company PEV. (Public Level 2 PEV chargers not tied to an Indiana-registered PEV 	
2		are not eligible.)	
	Beneficiaries	Commercial and industrial properties and multi-unit dwellings ern these incentives	
	Deficilitiaties	Electric vehicle charging station tax credits. Establishes a tax credit for a taxpayer who places a qualified electric vehicle	
	Program	charging station in service during the taxable year.	
		Provides that the amount of the tax credit is equal to 75% of the purchase cost.	HB1148 Indiana 2021
Indiana	Value	 Provides that the total amount of tax credits awarded in a state fiscal year may not exceed \$25,000,000. 	Electric vehicle charging
HB1148	Notable	Requires a taxpayer who claims the tax credit to provide a report to the office of energy development with information	
1101140	Conditions	concerning the qualified electric vehicle charging station.	station tax credits. TrackBill
	Beneficiaries	Taxpayers who place an EV charging station.	
	Program	Requires that each state entity must purchase or lease a clean energy vehicle	
	Value	The additional cost of purchasing the EV over an ICE vehicle.	
	value	 Unless the Indiana Department of Administration (Department) determines that the purchase or lease of the vehicle is 	
Indiana State			Alternative Fuels Data
Entity		inappropriate for its intended use.	
Clean Vehicle	Notable	Or the purchase or lease would cost 20% more than a comparable non-clean energy vehicle.	Center: Clean Vehicle
Acquisition	Conditions	Additional exemptions apply.	<u>Acquisition Requirements</u>
Requirements		A clean energy vehicle is defined as a vehicle that operates on one or more alternative energy sources, including the	(energy.gov)
		following: a rechargeable energy storage system, hydrogen, natural gas, and propane.	
		Each state entity must annually submit to the Department information regarding its use of clean energy vehicles.	
	Beneficiaries	Indiana State Treasury, the environment, EV companies that produce economical vehicles for commercial purchase.	
	Program	Duke Energy is offering rebates for qualifying public or private entities, apartment dwelling units, and government or	
	Fiogram	workplace fleet operators.	
		Public Level 2 – \$500 rebate per charger	
	Malara	MUD Level 2 – \$500 rebate per charger	
	Value	Workplace Level 2 – \$500 rebate per charger	
		Fleet Level 2 – \$500 rebate per charger	Alternative Fuels Data
		J1772 Level 2 charger equipped to charge at a dedicated capacity of 7.2kW and above and located in a location permitting	
Duke Energy		24/7 public access.	Center: Commercial Electric
Rebate		J1772 Level 2 charger equipped to charge at a dedicated capacity of 7.2kW and above and located at an apartment building	Vehicle (EV) Charging Station
	Notable	or retirement community.	Rebate - Duke Energy
	Conditions	J1772 Level 2 charger equipped to charge at a dedicated capacity of 7.2kW and above and located in an area where it is	
	22	available for use by applicant's employees.	
		 J1772 Level 2 charger equipped to charge at a dedicated capacity of 7.2kW and above and is utilized by applicant for charging 	
		one or more EVs as part of normal business operations	
	Beneficiaries	 Qualifying public or private entities, apartment dwelling units, and government or workplace fleet operators. 	
	belleficiaries	Qualifying public of private entities, apartment awelling units, and government of workplace neet operators.	

Duke Energy Value Val		Program	Duke Energy is seeking interested school districts to participate in a forthcoming EV School Bus program. Under this program,	
Value Va				
Value Allocation of 6 electric school buses in this region. Helps reduce total cost of ownership for school bus Enances visibility of your school's sustainability efforts Duke Energy School Bus Electrification Notable Conditions Notable Conditions Notable Conditions Porgram Program AES EV Managed Charging Program (Peak demand hours optimized Notable Charging Program (Peak demand hours optimized Notable Charging Program (Peak demand hours optimized Notable Charging Program (Peak demand hours optimized Notable Charging Program (Peak demand hours optimized Notable Conditions Allocation of 6 electric school buses in this region. Helps reduce total cost of ownership for school buses in this region. Helps reduce total cost of ownership for school buses in this region. Helps reduce total cost of ownership for school busing vehicle-to-grid technology Enhances visibility of your sperdshoolisty efforts Duke Energy was the charger and infrastructure for the program term Bus will participate in a Vehicle-To-Grid technology demonstration and study, which will demonstrate the ability of the bus to dispatch energy to the grid when needed Duke Energy Duke Energy owns the charger and infrastructure for the program term Bus will participate in a Vehicle-To-Grid technology demonstration and study, which will demonstrate the ability of the bus to dispatch energy to the grid when needed Duke Energy owns the charger and infrastructure for the program term Subvisional participate in a Vehicle-To-Grid technology demonstration and study, which will demonstrate the ability of the bus to dispatch energy to the grid when needed Duke Energy Duke Energy owns the charger and infrastructure for the program term Lectric To-Grid technology Energy of the grid when needed Duke Energy Alternative Fuels Data Center: Electric School Bu and Infrastructure Rebate Center: E		Value		
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obtainized - Have full control over your garage or parking space at your home. - Conditions			Have an always-on Wi-Fi network installed in your home.	
			Have full control over your garage or parking space at your home.	
• Agree to AES Indiana terms and conditions for the EV Managed Charging Program.				
You can enroll a maximum of two Enel X Juicebox chargers in the EV Managed Charging Program when you purchase electric				
vehicle chargers through the AES Indiana Marketplace				
Beneficiaries • Environment, Consumers' receiving the \$250 discount.		Beneficiaries	Environment, Consumers' receiving the \$250 discount.	

