

Testimony to the House Environment and Transportation Committee  
HB 894 Transportation Electrification and Modernization (TEAM) Act

**Position: Favorable with Amendment**

22 Feb 2022

The Honorable Kumar Barve, Chair  
Room 251, House Office Building  
Annapolis, MD 21401

Honorable Chair Barve and Members of the House Environment and Transportation Committee:

My name is Scott Wilson and I currently drive an all-electric 2017 Chevy Bolt EV and 2013 Nissan Leaf. I'm Vice President of the Electric Vehicle Association of Greater Washington DC (EVADC) and I serve on the Maryland Zero Emission Electric Vehicle Infrastructure Council (ZEEVIC), but the following comments are my own. I support passage of HB 894.

The TEAM Act would re-establish an incentive in Maryland for plug-in electric (PEV) and plug-in hybrid electric vehicles (PHEV) which is both reasonable, being capped at an MSRP of \$55,000, and effective, being set at \$2500 for a PHEV and \$1500 for a PHEV. This incentive would be in addition to the federal 30D EV tax credit. It would be a rebate, which I believe buyers will find more understandable than the prior excise tax credit. "Cash on the hood" has a well-documented positive effect on car sales.

If \$55,000 sounds too generous, remember that the average price Americans paid for a new car recently passed \$47,000. As shown in the attached EV Information sheet distributed by EVADC, there are many EV models, with a range of prices and capabilities, which would qualify for this incentive.

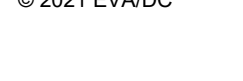
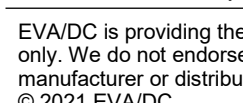
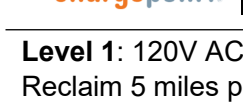
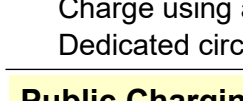
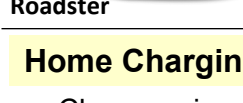
The proposed funding amount of \$12m would lead to a minimum of 4,800 additional plug-in vehicles in Maryland, which would mean 4,800 more Maryland families taking advantage of the EV Opportunity by cutting their per mile running costs by 3x, reducing their vulnerability to gas price gyrations and enabling a pathway for zero-carbon driving. Maryland itself would benefit in reduced carbon emission, reduced health impacts, and increased economic development.

My suggested amendment would be that, should the \$12m funding run out, to then reduce the excise tax on the covered vehicles by the amount of the incentive for a period of time linked to the number of PEV and PHEV registrations. This would avoid building an unfunded backlog of ZEV buyers, which has happened in previous iterations of our ZEV incentive programs, and it would link the incentive to the achievement of the state's ZEV goals. Once our ZEV goals are achieved, we can reset the excise tax to its current level, and collect more net revenue, since sales will then be higher.

I urge a favorable report on this bill with the suggested amendment.

Thank you for your time,

Scott Wilson  
Silver Spring, MD



All Electric	Base Price (USD) <sup>1</sup>	Net Price (USD) <sup>2</sup>	Range (mi) <sup>3</sup>	Batt. (kWh)	Power (kW) <sup>4</sup>	0-60 (sec)	QC (kW) <sup>5</sup>	MPG equiv <sup>3</sup>	Fuel / Mo. <sup>6</sup>
Chevy Bolt	\$31,000	\$31,000	259	66	150	6.5	50	118	\$46
Harley LiveWire	\$21,999	\$19,799	95*	15.5	78	3.0	20^	95*	---
Hyundai Ioniq Elec.	\$33,245	\$25,745	170	38.3	100	9.5	75	133	\$42
Hyundai Ioniq 5 <sup>β</sup>	\$45,000^	\$37,500^	258-290^	77	168-239	5.2-7.4	220	---	---
Hyundai Kona Elec.	\$34,000	\$26,500	258	64	150	6.4	75^	120	\$46
Kia EV6 <sup>β+</sup>	\$45,000^	\$37,500^	239-300^	58-77	125-430	3.5-5.2	220	---	---
Kia Niro EV	\$39,090	\$31,590	239	64	150	7.8	77	112	\$50
MINI Electric	\$29,900	\$22,400	114	32.6	135	6.9	50	110	\$50
Nissan Ariya <sup>β+</sup>	\$40,000^	\$32,500^	225-300^	66-91	160-250	5.0^	130	---	---
Nissan LEAF <sup>+</sup>	\$27,400	\$19,900	149s-226	40-62	110-160	6.4-7.4	50-100	104-111	\$50
VW ID.4	\$39,995	\$32,495	250	82	150	7.4	125	97	\$58
Zero SR/S <sup>+</sup>	\$19,995	\$17,495	109*	14.4	82	3.3	N/A	---	---
Average U.S. Gasoline Car Price		\$40,000							
Audi e-tron	\$65,900	\$58,400	222	95	300	5.5	150	78	\$71
BMW i3	\$44,450	\$36,950	153	42.2	125	7.2	50	113	\$50
Ford F-150 Lightning <sup>β+</sup>	\$39,974	\$32,474	230-300*	115-150^	318-420	4.5^	150	---	---
Ford Mustang Mach-E <sup>+</sup>	\$42,895	\$35,395	211-305	68-88	198-360	3.5-6.1	150	90-101	\$54-63
GMC Hummer EV <sup>β+</sup>	\$79,995	\$79,995	250-350*	150-200^	745*	3.0-3.5	350	---	---
Jaguar I-Pace	\$69,900	\$62,400	222	90	294	4.5	50	76	\$71
Polestar 2	\$45,900	\$38,400	249-265	78	300-500	4.5-7.0	150	89-92	\$58-63
Porsche Taycan <sup>+</sup>	\$82,700	\$75,200	201-227	79-93	300-560	2.6-5.1	270	69-79	\$67-79
Rivian R1S <sup>+</sup>	\$70,000	\$62,500	316	135	562^	3.0	200^	69	\$79
Rivian R1T <sup>+</sup>	\$67,500	\$60,000	314	135	562^	3.0	200^	70	\$79
Tesla Cybertruck <sup>β+^</sup>	\$39,900	\$39,900	250-500	100-200	330-600	2.9-6.5	250	---	---
Tesla Model 3 <sup>+</sup>	\$39,990	\$39,990	262-353	54-75	211-335	3.1-5.3	170-250	134-141	\$38-42
Tesla Model Y	\$53,990	\$53,990	303-326	75	211-335	3.5-4.8	250	---	---
Tesla Model S <sup>+</sup>	\$89,990	\$89,990	396-405	100	500-760	2.0-3.1	250	110	\$50
Tesla Model X	\$99,990	\$99,990	340-360	100	500-760	2.5-3.8	250	105	\$50
Tesla Roadster <sup>β</sup>	\$200,000	\$200,000	620	200	---	1.9	350^	---	---
Volvo XC40 Recharge	\$53,990	\$46,490	208	78*	300	4.7	150	79	\$70

All Electric



Cybertruck



F-150



Hummer



R1T



R1S



Model S



Model X



XC40



i3



VW



Kona



Ioniq 5



Bolt



Harley

EVA/DC meets the 3rd Wednesday of every month. See [evadc.org/meeting](https://evadc.org/meeting).

## Home Charging

Typically costs **4 ¢ / mile**. (3 mi / kWh, 12 ¢ / kWh)

Charge using an **ordinary 120V outlet**.  
Dedicated circuit recommended.



Install a **home 240V charging station** for faster  
charging at home. \$400-\$1000 + installation

240V Home  
Charging Station

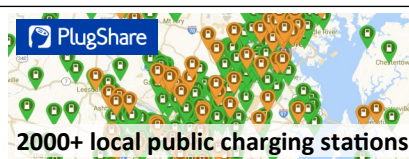


## Public Charging

Cost varies, free - 49 ¢ / kWh



240V Public  
Charging Station



2000+ local public charging stations



480V DC  
Fast  
Charger

**Level 1: 120V AC** (regular outlet)  
Reclaim 5 miles per hour charging

**Level 2: 240V AC** (J1772 / dryer plug)  
Reclaim 15-60 miles per hour charging

**Fast Charge: 480V DC**  
Reclaim 50-200 miles in 30 minutes

EVA/DC is providing the following for informational purposes only. We do not endorse or recommend any specific vehicle manufacturer or distributor. Information subject to change.  
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1. Base price before tax incentives, destination.
2. Net price after federal tax credit. State credits may still apply. Consult tax advisor.
3. EPA combined city/highway, except as noted
4. Total motor power. 1 kW = 1.34 hp

5. DC Quick / Fast Charge max rate
6. EPA, 15000 miles/year, 12¢ / kWh
- \* Source: Vehicle Manufacturer
- ^ Estimate
- + Multiple battery options available
- β Future availability announced





Escape



Santa Fe



Ioniq



Tucson



Pacifica



Clarity



MINI



Mitsubishi Outlander



Subaru Crosstrek



Prius



RAV4



330e



530e



745e



Ferrari



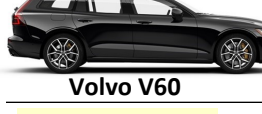
Land Rover P400e



Cayenne E-Hybrid



Panamera 4 E-Hybrid



Volvo V60



Volvo S60



Volvo S90



Volvo XC60



Volvo XC90



Polestar 1



Mercedes GLC350e

**Plug-in Hybrid Electric**

	Base Price (USD) <sup>1</sup>	Net Price (USD) <sup>2</sup>	Range (mi) <sup>3</sup>	Batt. (kWh)	0-60 (sec)	MPG equiv <sup>3</sup>	Fuel / Mo. <sup>6</sup>
Chrysler Pacifica hyb.	\$44,920	\$37,420	32+gas	16	7.4	82	\$83
Ford Escape Plug-In	\$33,075	\$25,575	37+gas	14.4	9.0 <sup>^</sup>	102	\$67
Honda Clarity PHEV	\$33,400	\$25,900	48+gas	17	7.7	110	\$58
Hyundai Ioniq PHEV	\$26,700	\$22,157	29+gas	8.9	8.9	119	\$54
Hyundai Santa Fe PHEV	\$40,535	\$33,948	31+gas	13.8 <sup>*</sup>	—	70 <sup>*</sup>	—
Hyundai Tucson PHEV	\$35,000 <sup>^</sup>	\$28,500 <sup>^</sup>	33+gas	13.8 <sup>*</sup>	8.9	70 <sup>*</sup>	\$54
Kia Niro PHEV	\$29,590	\$25,047	26+gas	8.9	9.0	105	\$58
MINI Cooper S E Countr.	\$41,500	\$36,500	17+gas	10	6.7	73	\$108
Mitsubishi Outlander	\$36,695	\$30,108	24+gas	13.8	9.2	74	\$100
Subaru Crosstrek Hyb.	\$35,345	\$30,845	17+gas	8.8	8.3	90	\$79
Toyota Prius Prime	\$28,220	\$23,720	25+gas	8.8	10.5	133	\$50
Toyota RAV4 Prime	\$38,350	\$30,850	42+gas	18.1	5.7	94	\$71
Average U.S. Gasoline Car Price		\$40,000					
Audi A7 Plug-In	\$74,900	\$68,188	24+gas	14.1	5.7	68	\$113
Audi A8 Plug-In	\$95,900	\$89,188	18+gas	14.1	4.9	53	\$150
Audi Q5 Plug-In	\$51,900	\$45,188	19+gas	14.1	5.0	50	\$129
Bentley Bentayga	\$187,600	\$180,100	18+gas	17.3	5.2	46	\$183
BMW 330e	\$44,550	\$38,714	22+gas	12	5.6	—	—
BMW 530e	\$57,200	\$51,364	21+gas	12	5.9	69	\$113
BMW 745e xDrive	\$95,900	\$90,064	16+gas	12	4.9	56	\$150
BMW i3 Range Extender	\$48,300	\$40,800	123+gas	42.2	8.0	100	\$58
BMW X3 xDrive30e	\$49,600	\$43,764	17+gas	12	5.9	—	—
BMW X5 xDrive45e	\$65,400	\$57,900	30+gas	21.6	5.3	56	\$138
Ferrari SF90 Stradale	\$625,000	\$621,500	9+gas	7.9	2.5	51	\$217
Jeep Wrangler 4xe	\$51,025	\$43,525	21+gas	17	6.0	—	—
Karma GS-6 / Revero <sup>β</sup>	\$83,900	\$76,400	61+gas	28	4.5	70	\$96
Land Rover Sport P400e	\$83,000	\$76,705	19+gas	13	6.3	42	\$175
Lincoln Aviator	\$69,070	\$62,536	21+gas	13.6	—	—	—
Lincoln Corsair <sup>β</sup>	\$50,390	\$43,547	28+gas	14.4	—	78	\$88
Mercedes GLC350e	\$51,900	\$45,438	22+gas	13.5	5.6	56	\$138
Polestar 1	\$155,000	\$147,500	52+gas	34	4.2	58	\$117
Porsche Cayenne	\$83,300	\$75,800	16+gas	17.9	4.7	47	\$154
Porsche Panamera	\$103,800	\$97,130	15+gas	14.1	4.4	51	\$154
Volvo S60 Recharge	\$47,650	\$42,231	22+gas	11.6	4.3	69	\$104
Volvo S90 Recharge	\$60,050	\$54,631	21+gas	11.6	4.8	60	\$113
Volvo V60 Recharge	\$67,550	\$62,131	22+gas	11.6	4.3	69	\$104
Volvo XC60 Recharge	\$53,500	\$48,081	19+gas	11.6	4.9	57	\$125
Volvo XC90 Recharge	\$63,450	\$58,031	18+gas	11.6	5.9	55	\$125

PHEV — Plug-in Hybrid Electric Vehicle (Electric & Gas) - All these hybrids have a plug.



Niro



A7



A8



Q5



Bentley



i3



X3



X5



Jeep



Karma



Aviator



Corsair



Mercedes GLC350e

**Incentives**

**Federal Tax Credits**

Vehicle: up to \$7500

EVSE: up to \$1000

**DC:**

EV Supply Equipment (EVSE) Tax Credit - 50% of cost up to \$1000  
Excise tax exemption. Reduced vehicle registration fee of \$36

**Maryland:**

EV Supply Equipment (EVSE) Tax Credit - 40% of cost, max \$700  
High Occupancy Vehicle (HOV) Lane Exemption through Oct. 2022

**Virginia:**

Reduced personal property tax in Arlington and Loudon counties  
Discounted electricity rates for off-peak residential EV charging