Montana Taxing of High Efficiency Light Vehicles: The Realities of HB 60 Testimony to Transportation Interim Committee meeting March 13, 2024 by Nick Shrauger, Bozeman

Introduction

In 1975 the Federal Government required U.S. vehicle manufacturing to meet higher efficiency standards to reduce gasoline consumption. These standards, known as Corporate Average Fuel Economy (CAFE), are administered by the National Highway Traffic Safety Administration (NHTSA). They regulate how far vehicles must travel on a gallon of fuel. CAFE standards have currently increased the average efficiency of light vehicles to 25 MPG and continue to be revised to require more efficiency in the future.

Beginning in 1919 states began charging vehicle owners a milage tax to help pay for transportation infrastructure. A simple method to collect taxes was (and is) to use each gallon of gas sold as a proxy for miles driven. More miles driven means more gas purchased, and more tax collected!

At the present time, the collection of taxes on fuel is failing even as the number of vehicles using our transportation infrastructure is increasing. More vehicles require more need for construction and maintenance dollars. The Montana per-gallon road tax supplies approximately 18% of Montana transportation funding. This small but necessary part of transportation funding is failing because of the increasing number of high efficiency gas and electric vehicles that are using Montana roads. It is important to know that now, and for several years in the future, the number of high efficiency light gas vehicles greatly out number high efficiency electric vehicles. In other words, in Montana more gallons of avoided gas purchases are due to gas vehicle efficiency than is caused by electric vehicles which do not use gas.

Vehicle efficiency (miles per gallon or MPG) has long been a major attribute considered by consumers. Consumers are increasingly choosing high efficiency vehicles, both gas and electric. The April 2024 issue of <u>Consumer Report</u> (p30) list ten high-efficiency, light gas vehicles as "The Best Buys Right Now". Their average transactional price is \$23,942. Their average efficiency is 35 MPG. Even though yearly sales of electric vehicles are increasing it will be many years before the number of electric vehicles matches the number of gas vehicles in Montana.

The Reality of HB 60

Improvements in vehicle propulsion batteries has allowed development and increased sales of Electric Vehicles (EV). The Montana Legislature passed HB 60 to require electric vehicle owners to "pay their fair share" since fully battery electric vehicle (BEV) owners were not purchasing gallons of gas and thus not paying for road usage.

I agree that owners should pay for electric vehicle road use based on vehicle efficiency and miles driven. I submit that HB 60 is descriminatory and not equitable. Here is my assessment.

Discrimination

HB 60 enacts a flat fee tax on BEV owners which is not based on individual vehicle efficiency and miles driven. This fee is collected even if EVs are not driven. In contrast, high-efficiency gas vehicle owners pay no tax unless vehicles are driven.

Gas vehicle owners also choose vehicles based on efficiency. Choosing a vehicle of high-efficiency means fewer gallons purchased thus less tax paid. High-efficiency gas vehicles put miles on the roads that are not taxed.

HB 60 discriminates between owners of BEVs and owners of gas vehicles. Montana consumers should not have to experience a descriminatory tax.

Equitability

HB 60 is not equitable. It is not based on individual vehicle efficiency and miles driven and thus overtaxes BEV owners.

Below is a spread sheet which calculates EV tax liability based on actual, average efficiency and miles driven for 4 BEV registrations in Montana. Energy is used as a common parameter for these calculations. (The Environmental Protection Agency -EPA- has determined that the energy in one gallon of gas is equivalent to 33.7 kWh of electric energy.)

The equitable BEV tax liability of these 4 vehicles is calculated and subtracted from the \$130 HB 60 fee to show individual vehicle HB60 overtax payments. These payments range from \$92.80 to \$118.96.

Recommendation

I ask this committee to submit to the 2025 legislature a revision of HB 60 that will remove discrimination and reduce overtaxing for both gas and electric high-efficiency vehicle owners. I ask this in the spirit of non-discrimination and equitability for Montana consumers who purchase high-efficiency gas and electric vehicles.

		Based on a	actual BFV eff	iciency and mileage				
		Duscu on c	ictual DEV CIT	leichey and mileage				
					State Tax			
Montana pump tax for 1 gallon of regular gas is					\$ 0.3275	per gallon		Nick Shrauger
								12-Mar-24
	EPA Electric Energy equivilent in one eGall			illon =	33.7	kWh		
	Electric E	oo not sunn	orted by in	dividual EV officia	nov and ar	mual alactric	vehicle road miles	drivon
	LIECTIC	ee not supp	orted by in			Equivalent		HB 60 Overtax amou
			AVR Eff	miles on	Fuel	Gas Energy	based on electric	HB60 Fee - Equitabl
MFG	Model	HB 60 FEE	Miles/kWh	Montana roads	kWh	(eGallons)	miles driven	Equals Over tax paid
Any		\$130	Any	0	0	0	0	\$ 13
Toyloto	D74V	\$130	2.2	12.250	2020	112.50	\$ 37.20	\$ 9
Toyota Tesla	BZ4X 3	\$130	3.2 4.4	12,250 5,000	3828 1136	113.59 33.72	\$ 37.20 \$ 11.04	\$ 9
Chev	Bolt	\$130	3.9	8,000	2051	60.87	\$ 19.93	\$ 1:
KIA	EV6	\$130	3.5	13,000	3714	110.22	\$ 36.10	\$
MA		7150	3.3	13,000	3714	110.22	ŷ 30.10	,
culation	of avoided	l gas tay lial	hility of a hi	gh efficiency gas y	vehicle 35 E	MG vehicle t	o the 25 MPG EPA	Average
		_	-				8,000 mi/35 mpg).	Average
			_				ame amount of wea	ar and tear.
	_	_		9 = 91 gallons and	_			
The avoi	ded tax lia	bility on the	e gas car is S	29.80. The tax e	quitable ta	x liability on t	he Bolt is \$19.93.	
		•		529.80. The tax e 0 for an avoided	•		ne Bolt is \$19.93.	