

Cost Estimates for Electric Car Proposals

What Are Fianna Fáil Proposals to Encourage Electric Vehicle Usage?

Fianna Fail have proposed a number of simple measures to encourage the switch to electric cars, which we believe will lead to a critical mass of consumers switching to electric by 2020, if implemented now. These include Making ESB charging points Free to Access for all Users, extending the EV SEAI purchase grant and VRT rebate and no Motor Tax on EVs or Road Tolls for 5 years.

Assumptions on Numbers of EVs

The government targets 50,000 electric vehicles (EVs) by 2020. However this is extremely unrealistic, given that there are only 1,082 EVs at present representing 0.05% of new car sales in 2015. Based on the assumption that the percentage of new EV sales double each year up to 2020, we estimated that the total number of EVs availing of the various schemes to incentivise their usage by 2020 will be 11,100.

	Total Number of Passenger Cars, Ireland 2013	New Car Sales	% New Car Sales EVs	Number of New EVs 2015	Total Number of EVs
2015	1,900,000	125,000	0	625	
2016	1,900,000	125,000	0	625	1,725
2017	1,900,000	125,000	0	1,250	2,350

2018	1,900,000	125,000	0	2,500	3,600
2019	1,900,000	125,000	0	5,000	6,100
2020	1,900,000	125,000	0	10,000	11,100

Making Charge Points Free to Access for EV Users from 2017

From 2016, the ESB will charge a EV users €16.99 per month for access to charge points. This would be paid from the DTTS as a subvention to the ESB in return for providing EV users free access to charge points. Based on the assumption of 11,100 Electric Cars by 2020, this would work out as €204 per user, per year.

Free Charge Points			
	Number of Electric Cars (Targets)	ESB Charge Per Month*	Annual Cost (€, millions) of Subvention to ESB
2015	1,100	16.99	0.22
2016	1725	16.99	0.35
2017	2350	16.99	0.48
2018	3600	16.99	0.73
2019	6100	16.99	1.24
2020	11100	16.99	2.26
Total			4.72

Paying Private Toll Companies to Waive Tolls on Electric Vehicles

All Electric Vehicles would be given a waiver on their road tolls; this sum would be paid to private toll operators by DTTS based on receipts.

Based on assumption that there would be 11,100 Electric Cars by 2020 and an average driver is assumed to spend €50 per annum on tolls.

Free Motor Tolls for EVs			
Free Toll	Number of Electric Cars (Targets)	Tolls - Average Annual Expense	Annual Cost (€, millions) - Lost Revenue
2015	1,100	50	0.055
2016	1725	50	0.08625
2017	2350	50	0.1175
2018	3600	50	0.18
2019	6100	50	0.305
2020	11100	50	0.555
Total			1.1575

Waiving Motor Tax on all EVs

All Electric Vehicles would be given a waiver on their Motor Tax. Based on assumption that there would be 11,100 Electric Cars by 2020 and average motor tax for an Electric Vehicle at present is €120 per annum (According to the SEAI).

Waiving Motor Tax for EVs - Costs to Exchequer			
Free Motor Tax	Number of Electric Cars (Targets)	Motor Tax for an EV - Average Cost	Annual Cost (€, millions) - Lost Revenue
2015	1,100	120	0.1
2016	1725	120	0.2
2017	2350	120	0.3
2018	3600	120	0.4
2019	6100	120	0.7
2020	11100	120	1.3
Total			2.8