

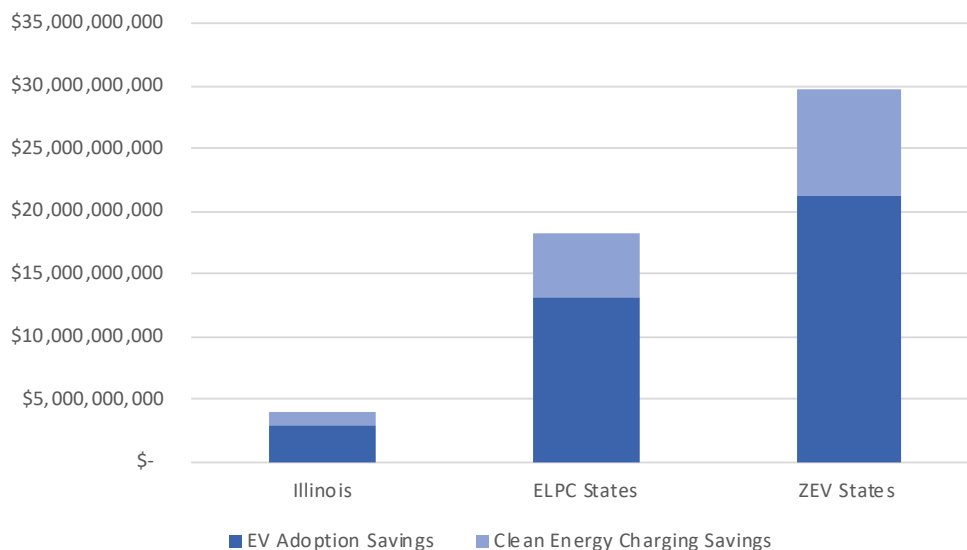
Can Fuel Switching Save Illinois Four Billion Dollars a Year?

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What if the fuel we use in our vehicles could save us over four billion dollars a year in Illinois alone? According to the [American Lung Association Clean Air Future report](#) (Bonnie Holmes-Gen, 2016), if 100% of vehicle sales are electric and 65% of cars on the road are electric by 2050, an annual \$21.3 billion savings can be achieved in the current 10 ZEV states (Bonnie Holmes-Gen, 2016) which has a combined population of 92,053,855 (United States Ranked by Population 2018 , 2018). That amounts to an annual savings of \$231.38 per person in these states. These savings are achieved by reducing human health and climate impacts associated with vehicle emissions. By charging off renewable resources such as wind and solar, the American Lung association anticipates a 40% increase in savings which adds \$8.4 billion to the total savings (Bonnie Holmes-Gen, 2016). The per capita savings for charging off renewables is roughly \$91.25 per year. This amounts to a total annual savings of \$29.7 billion for these ZEV states or a per capita savings of \$322.63

If these same numbers hold true in Illinois which has a population of 12,802,023 (United States Ranked by Population 2018 , 2018), the annual savings that can be achieved by switching electric vehicles charged off clean energy is over \$4.1 billion. Almost \$3 billion can be saved annually by shifting to electric vehicles while the other \$1.1 billion can be derived by charging these vehicles off clean energy. If we then expand this to some of our neighboring states including Illinois, Indiana, Iowa, Michigan, Minnesota, North Dakota, Ohio, South Dakota, and Wisconsin which have a combined population of 57,232,620 (United States Ranked by Population 2018 , 2018), the annual savings would be over \$18 billion. \$13.2 Billion would be saved by moving to electric vehicles while \$5 billion in savings would be achieved from charging off clean energy in these states. Further research may be required to provide a more accurate savings that can be achieved by shifting to electric vehicles and charging them off renewable energy since the power generation and other factors can be different from state to state. If these numbers are even close to being accurate, these savings certainly make a case for switching the fuels that help us power our cars and we should do all that we can to accelerate this transition to electric vehicles that are charged off clean energy.

2050 Savings Acheived By Fuel Switching



References

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