



Since 2012, SunCommon has maintained a fleet of Toyota Prius, and Toyota Rav 4. As our business requires staff driving for marketing, sales and operations, it makes financial sense to lease these vehicles, rather than reimburse staff for mileage (while also providing a nice company benefit!) From this starting point, we have the ongoing opportunity and obligation to reduce our transportation based carbon emissions and costs by switching our fleet to all electric vehicles (powered by the sun!)

We knew we wanted to move away fossil fuel burning vehicles. In fact we've been committed to making it happen. It just so happens that it makes financial sense too. With this understanding, the Drive Electric Pledge allows us to say "We are all in!" We now commit to not purchasing or leasing any more fossil fuel burning cars when there are fully electric viable alternatives. We'll starting by swapping out Prius and Rav 4, for all electric Chevy Bolts and Kia Niro. Join us by signing this pledge!

	Rav 4 Hybrid	Niro EV	Toyota Prius 5 dr Hb LE	Bolt EV	Explanations
Expected Mileage	54,000	54,000	54,000	54,000	Expected milage driven on average over three years, based on our historical averages.
Lease Mileage	60,000	45,000	45,000	45,000	Milage available per vehicle, for 3 year lease option
Lease Cost	\$522.00	\$535.00	\$457.27	\$496.80	Monthly lease payment for 3 year lease, with no money down
Total Lease Cost	\$18,792.00	\$21,060.00	\$17,811.72	\$20,134.80	Total cost of 3 year lease
Mileage Overage	\$0.15	\$0.20	\$0.15	\$0.25	You've seen the cars around. We drive a bit, so we may go over the desired mileage
State Based Rebate					Different states have rebates Vermont State Rebates NY State Rebates
Utility Based Rebate		-\$1,500.00		-\$1,500.00	Many utilities offer rebates Vermont Utility Rebates NY Utility Rebates
Carbon Pollution Cost	\$0.00	\$0.00	\$0.00	\$0.00	Product of "CO2 emissions for lease duration" & the "Value of CO2 Offset"
Lease life Maintenance	\$1,257.00	\$300.00	\$1,257.00	\$300.00	Based on historical averages of all maintainace needed for term of lease.
Cost Gas/Electricity Full Lease Term	\$4,842.00	\$2,656.80	\$3,026.25	\$2,479.68	Derived from average miles driven, cost of gas, cost of electricity and vehicle efficiency
Expected Yearly Mileage	18,000	18,000	18,000	18,000	
Expected Monthly Mileage	1,500	1,500	1,500	1,500	
Total Spend per Vehicle	\$24,891.00	\$22,516.80	\$22,094.97	\$21,414.48	
Savings: EV vs Prius				\$680.49	
Savings: EV vs Hybrid RAV		\$2,374.20			
CO2 emissions for lease duration (metric tons)	13.5	1.2	11.9	1.1	This number is a product of miles driven and grams CO2 per mile driven (shown below)
Value of CO2 offset	\$ -				The value of this CO2 offset is recommended to be between \$100-200/ metric tons of CO2. The CO2 offset further supports moving to electric, but we have left it blank for this example

Source Data

	Rav 4 hybrid	Niro EV	Prius	Bolt EV	
Maintenance over 45k miles					
Oil Changes	\$525.00	\$0	\$525.00	\$0	These numbers provide us "Lease Life Maintenance"
Tire Changeovers	\$300.00	\$300.00	\$300.00	\$300.00	These numbers provide us "Lease Life Maintenance"
Dropping car from Maintenance/Gas program	\$432.00		\$432.00		These numbers provide us "Lease Life Maintenance"
Miles driven	54,000	54,000	54,000	54,000	These numbers provide us "CO2 emissions for lease duration"
CO2 grams/mile	170		170		These numbers provide us "CO2 emissions for lease duration"
Lbs CO2 per Green Mountain Power mWh		160		160	These numbers provide us "CO2 emissions for lease duration" considering CO2 of utility mix
Miles/gallon	30		48		These numbers provide us "CO2 emissions for lease duration"
Gallons Gas Used	1,800		1,125		These numbers provide us "CO2 emissions for lease duration"
kWh/100 miles		30		28	These numbers provide us "Cost gas/electricity Full lease term"
Fuel cost (per gallon or kWh)	\$2.69	\$0.16	\$2.69	\$0.16	These numbers provide us "Cost gas/electricity Full lease term"
Gallons of Petroleum Consumption	1,800		1,125		These numbers provide us "Cost gas/electricity Full lease term"
Total kWh used		16,200		15120	These numbers provide us "Cost gas/electricity Full lease term"
Cost/100 miles	\$8.97	\$4.92	\$5.60	\$4.59	These numbers provide us "Cost gas/electricity Full lease term"
Total Fuel Spend	\$4,842.00	\$2,656.80	\$3,026.25	\$2,479.68	These numbers provide us "Cost gas/electricity Full lease term"
Metric tons CO2 consumed (lease life)	13.5	1.2	11.9	1.1	Numbers from vehicles emissions and local utility electricity production GHG emissions