

# Electric Vehicles Already Cost Less to Own

**One third the fuel cost:** EVs cost about 1/3 as much to fuel as gasoline or diesel vehicles. Compared to a 30-mpg vehicle driven 12,000 miles a year, an EV saves around \$800 per year. And the largest EV maintenance cost is tires, since the motor has only one moving part and there's no transmission.



**Lower pollution costs:** The societal costs from vehicle gasoline or diesel are estimated to be around \$0.50 per gallon for climate damages in the US and around \$4 per gallon for damages globally. Additionally, the **local healthcare costs** of fuel combustion add another \$2-3 per gallon. Transportation is now the largest source of toxic and climate pollution in the US and in most states.



**Electric vehicle (EV) battery costs continue to decline**, enabling EV purchase prices to become cheaper than gas and diesel vehicles within 3 to 8 years. EV purchase prices plus ten years of fuel costs are already less than gas or diesel vehicles in many cases.

## EV sales and availability are growing rapidly

- Automakers are scrambling to productize hundreds of new EV models in all vehicle types.
- These are the most common EVs registered in Oregon since 2017, in order of popularity:

All-electric EVs				Pluggable Hybrid EVs (PHEVs)			
Make / Model	Type	Range (mi)	Price w/ fed tax credit*	Make / Model	Type	Electric range (mi)	Price w/ fed tax credit*
Tesla Model 3	Midsize car	220-310	\$34,725-47,315	Toyota Prius Prime	Midsize car	25	\$24,028
Chevrolet Bolt	Small sta. wagon	238-259	\$33,745	Chevrolet Volt	Compact car	53	\$30,645
Tesla Model X	4WD SUV	305-325	\$84,315-104,315	Honda Clarity	Midsize car	47	\$26,820
Tesla Model S	Large car	345-370	\$79,315-99,315	Ford Fusion Energi	Midsize car	26	\$30,981
Nissan Leaf	Midsize car	150-226	\$23,375-29,945	BMW i3	Sub-compact	126	\$41,795-44,995
VW e-Golf	Compact car	125	\$25,290	Chrysler Pacifica	Minivan	32	\$34,240

\* Federal and Oregon rebates are available up to \$12,500, depending on model and family income. Used EVs are available, some priced as low as \$7,000.

Comparisons and more models: <https://insideevs.com/reviews/344001/compare-evs/>

# Chevron finally admits their product causes climate change



## Four decades of systematic deception

Exxon, Chevron, and other oil companies have known since the 70's that their business would harm our atmosphere<sup>1</sup>. They've spent billions on disinformation campaigns and covering up their deception<sup>2</sup>. But climate change is undeniable now. International scientific organizations recently warned that we have only about a decade to drastically reduce our emissions from fossil fuels and other sources--or risk mass extinctions and the end of organized civilization<sup>3</sup>.



## Big Oil now blames you for climate change

In the first trial accusing oil companies of damaging our climate<sup>4</sup>, oil companies shifted from denying climate change or that they're responsible, to agreeing with climate scientists about fossil fuel effects on our climate. Then they blamed customers for using their product! If that sounds like tobacco companies blaming people for choosing to smoke, that's because they're using the same legal tactics and even the same PR firms<sup>2</sup>.

Yes, our largest polluters now claim that you're the problem, not them. It's not their fault that their product is grossly defective and dangerous, or that they've lied to us for decades.

## What can we do?

1. **Elect only candidates who will reverse the fossil-fuel agenda.** Instead of an "economic disaster," replacing our fossil-fueled electricity and vehicles would drive an unprecedented economic boom because clean energy technologies are much cheaper to operate. Congress knows this, but the entrenched dark money from Big Oil thwarts progress. If a candidate avoids climate action, he or she is probably funded by coal, oil, or gas companies.
2. **Buy only the most energy-efficient products.** Electric heat pumps for space or water heating are three times as efficient as gas heating. EVs are four times as efficient as gasoline or diesel vehicles. When considering a new vehicle, don't lock in another decade of pollution from a new gas guzzler--either buy a new or used EV, wait for the many new EV models coming, or buy a used gasoline vehicle because its emissions are already locked in. (see over)

1. *Exxon Knew about Climate Change almost 40 years ago*, Scientific American, Oct. 26, 2015.

2. **Merchants of Doubt** book and movie (2014) <https://www.youtube.com/watch?v=i8ii9zGFDtc>

3. *Summary for Policymakers of IPCC Special Report on Global Warming of 1.5°C*, October 2018

4. *People cause climate change, but don't blame big oil, industry tells judge*, SF Chronicle March 21, 2018, <https://www.sfchronicle.com/bayarea/article/People-cause-climate-change-but-don-t-blame-12771823.php>