The Gasoline-Powered Automobile Is Obsolete

Electric Drivetrains Simply Make the Most Sense and Are Now More Practical and Affordable for Cars & Trucks
Volkswagen said as much back in 2007:
(from the Spring/Summer 2007 issues of “VW Driver”)
What’s the Carbon Footprint of EV’s vs. Gas-Powered Cars?

Aren’t Electric Cars Just Burning Coal Instead of Gasoline?
Less than 20% of the Power in Gasoline Goes to Propel the Vehicle.
Electric Cars are 90% efficient

90% of the energy used goes to powering the wheels
Engine Losses: 71% - 75%
Thermal, such as radiator, exhaust heat, etc. (60% - 64%)
Combustion (3%)
Pumping (5%)
Friction (3%)

Parasitic Losses: 5% - 7%
(e.g., water pump, alternator, etc.)

Power to Wheels: 14% - 20%
Dissipated as
Wind resistance: (3% - 5%)
Rolling resistance: (3% - 5%)
Braking (7% - 10%)

Drivetrain Losses: 4% - 5%

Idle Losses: 6%
In this figure, they are accounted for as part of the engine and parasitic losses.
Slowing Down or Going Downhill, It Gets Worse...

Only Electric Vehicles Allow You to Recapture the Energy Used to Gain Speed or Climb Hills.
Case Study: Regenerative Braking in My Tesla

8.9 Miles from Genesee Exit to I-70 to my office in Golden.

My Tesla generated 1.5 kWh of electricity, while the cars around me burned ~1 quart of gas.
Electricity is the *only* energy that you and I can create at home!
Today’s Sustainability Model:

Put enough solar panels on your home to power your home and the car in your garage!
How Powerful Can Electric Motors Be?
Here’s a powerful EV...
Here’s How Diesel Electric Locomotives Work...
Do You Like Performance?
EV’s Aren’t New...

1915 Detroit Electric Car
What’s New About EV’s? The Batteries.
Let’s Talk Affordability...
Electric Cars Are Already Affordable Because of Federal/State Tax Credits

$7,500 Federal tax credit
$6,000 Colorado tax credit

And They’re Getting More Affordable Every Year
Chevy Volt -- $34,995 minus $11,899 = $23,096
Nissan Leaf -- $28,980 minus $12,655 = $16,325
Fiat 500e -- $31,800 minus $13,332 = $18,468
Ford Focus Electric -- $29,170 minus $12,484 = $16,686
Mercedes B-Class EV -- $42,400 minus $13,500 = $28,900
Tesla Model S -- $75,000 minus $13,500 = $61,500
(2015 prices)
Note:
These Tax Credits Are for Early Adopters - Be One!
EV’s Cost Less to Operate
Fuel Cost per Mile
Electric Cars  --  4 cents *(or free)*
Gasoline Cars -- 10 to 30 cents
Don’t Forget Maintenance Costs!

Electric Cars -- negligible
Gasoline Cars -- 10 cents/mile (est.)
Tesla cars need less service than ICE cars. A standard ICE automobile has more than 2,000 moving parts. Tesla cars have 18 moving parts!

--Baron Funds’ Sept. 30, 2014 Newsletter
Here’s what the 350-HP Tesla Motor Looks Like...
And here’s how you charge a Tesla at home....
Both Motor & Battery Come With an 8-Year, Unlimited Mileage Warranty
Let’s Talk Safety....
Many Crash Victims Are Killed by Fire

Would You Rather Be in the Red Tesla or the Black Mercedes?
Carbon Monoxide?
Not With an Electric Vehicle
My Advice to Americans:

Don’t buy a new gas-powered car. If the type of vehicle you want is not available today, it will be within 5-10 years at most.
<table>
<thead>
<tr>
<th>EV Model</th>
<th>Range (miles)</th>
<th>Price ($)</th>
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</thead>
<tbody>
<tr>
<td>BYD e6</td>
<td>186</td>
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<tr>
<td>Chevrolet Bolt</td>
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<tr>
<td>Volkswagen E-Golf</td>
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</tr>
</tbody>
</table>

(Subtract $13,500 tax credit on each)
Other Countries Are Further Along in the Manufacture and Adoption of Electric Vehicles
Electric Bus - eBus

Sin cableado aéreo

www.facebook.com/vehiculos.electricos.7

vehiculoselectricos@yahoo.es
This 100 Percent Electric Eighteen-Wheeler Just Hit The Road In Germany

BY ARI PHILLIPS  JUL 9, 2015 12:49PM
100% ELECTRIC CAR
FOB U$4.500 TO U$9.000
vehiculoselectricos@yahoo.es
Pure Power Extreme Efficiency
100% Electric. Zero Emissions.

No hay nada como un camión verde o una van verde. Estos vehículos eléctricos de baja velocidad definen cómo debe dirigirse la Industria. Como ejemplo con eco-amabilidad de los Vehículos Verdes, el destino es el mismo - la tecnología innovadora con lo último en seguridad, comodidad y rendimiento.

RENDIMIENTO Un coche de 3 fases motor de inducción eléctrica de CA con un motor de torque construido para un rendimiento y durabilidad. Fracción de potencia que permitan que el conductor haga una parada rápida. Estos vehículos eléctricos están equipados con componentes de alta calidad en un chasis totalmente acero y el cuerpo que recibe un lote de impresión para visualizar el colores.

COMODIDAD Son vehículos amplios de baja velocidad que ofrecen la fusión de primera clase, el confort y el estilo como los asientos con motores totalmente ajustables. Un montón de espacio para la cabeza y las piernas se combinan con una serie aparentemente interminable de configuraciones de carga / pasajeros. La caseta completamente cerrada protege a los conductores de los elementos y es tranquilo y confortable.

SEGURIDAD Comprenden de 3 luces delanteras, parachoques de vidrio laminado de seguridad, componentes de la suspensión de servicio pesado, una distancia entre ejes grancor con un marco de alta resistencia escalera, taros, luces traseras, far antimancha, intermitentes y luces de emergencia.

AHORRO Y EFICIENCIA Saber los libros de mantenimiento y las comodidades de un vehículo totalmente equipado. Puede que nunca comprará gas de nuevo!
100% Eléctrica
Tesla Makes a Terrific Police Car
Also a Great Taxicab...

Tesla Model S automobiles are used as taxis in Vienna.

There are 167 Tesla Model S taxicabs in service at the Amsterdam airport.
What Are You Waiting For?

Electrics Cars Are:
* Powerful & Safe
* Cheap to Operate
* Even Cheaper to Maintain
* Drive Train Warrantied for 8 Years
* Can Be Fueled for Free at Home or Work and on Long Trips
* Will Have Great Resale Value