GO ELECTRIC

YOUR QUESTIONS ANSWERED
Electric Mobility

Is an Electric Vehicle a good alternative to current Ice Vehicles?

Is electricity a good alternative to petroleum based fuels?

Does the battery substitute the conventional fuel tank?
Electric mobility

The issues and questions

Range
Performance
Comfort
Vehicle Price
Price per km
Usability
Maintenance

CO₂ and pollution
Battery issues
Where to charge
Grid impact
How much oil we save

Magnum Cap®
Electrical Power Solutions
WHAT IS AN ELECTRIC VEHICLE?

Lohner-Porsche by Ferdinand Porsche, early 1899
HOW MY FRIENDS SEE AN EV
EV world today and much more...

Audi - A3 e-tron
Audi - e-bike
BMW - Active E
BMW - i3 & i8
BMW - Pedelec Electric Cycle
Brammo - Empulse
Chevrolet - Spark
Chevrolet - Volt
Citroen - C-ZERO
Fisker - Atlantic
Mini - Electric
Nissan - Leaf
Opel - Ampera
Peugeot - Cycles
Peugeot - Partner
Renault - Circular Economy 4L
Renault - Twizy
Renault - Zoe
Smart - Fortwo Electric Drive
Smart - Scooter
SsangYong - XIV-1
Tesla - Model S
Toyota - iQ
Volvo - C30

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HOW FAR CAN I GO?
EFFICIENCY AND CO₂ EMISSIONS

- 9% refinery
- 36% power station
- 5% grid
- 8% battery
- 2% electric motor

Emissions/CO₂

100% energy

40% useful energy

Electric car

17.5 kWh/100 km
1.8 l/100 km
6 g CO₂/km*

* Switzerland 2005 production mix

- 12% refinery
- 73% car engine

Emissions/CO₂

100% energy

15% useful energy

Diesel car

64 kWh/100 km
6.5 l/100 km
170 g CO₂/km

MAGNUM CAP®
ELECTRICAL POWER SOLUTIONS
ENERGY EFFICIENCY

RANGE ON ONE BARREL CRUDE OIL

Electric vehicle: 4.500 km

Diesel vehicle: 2.700 km

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ELECTRICAL POWER SOLUTIONS
BUT, WHAT ABOUT THE RANGE?

How We Drive

THE AVERAGE DAILY TRIP LESS THAN 10 KM
600 KM PURE ELECTRIC
600 KM PURE ELECTRIC
1.600 km, Baterias de Ferro-ar
Liberty Electric Cars project

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HOW TO CHARGE
Where to charge?
What charging type?

Parking

Magnum Cap Electrical Power Solutions
HOW LONG DOES CHARGING TAKE?
Place your card on the reader spot to terminate

Duration: 07m28s
Energy: 16.92kWh
Current: 200A

100 Km in only 7 min
EXAGON FURTIVE E-GT: 402 hp, 516 Nm
Power: 1088 hp
Torque: 1600 Nm
Acceleration: 0-100 km/h 2.8 secs
Range: up to 600 km
HOW MUCH CAN I SAVE?
PRICE per 100KM
BEV COMPARED TO DIESEL

9€ = 450 km
if driving an EV

2€
100 km

100 km

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How We Drive

HOW MUCH OIL CAN WE SAVE

Based on 250,000 km vehicle life estimation

26,000 € diesel
5,000 € electricity

PHEV
14.000 liter

EV
18.200 liter

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HOW IS ELECTRICITY GENERATED?

70%
WHY ELECTRIC?
Petroleum reserves are becoming depleted and increasingly expensive to extract.

Our emissions are polluting the environment and causing climate change.

Here, electric mobility is a key component.
For each region, the largest source of electricity generation in 2008 and 2035 is denoted by its percentage share of the overall mix.
ELECTRIC MOBILITY
THE MOBILITY OF THE FUTURE

Electric vehicles are very efficient.

EVs give us the opportunity to use energy from renewable sources in transport.

They can help on the changeover to renewable energy.

They will make an important contribution to grid stability.

They will maintain our freedom to move.
Global CO2 emissions must be cut by at least 50% by 2050.
1,000 million PHEVs and BEVs are expected to be sold by 2050 in the world.
I CAN’T CHARGE!
Ligue-se à corrente.

Os veículos elétricos chegaram e vieram acompanhados de muitas vantagens:

1. Baixo custo por km — aproximadamente 1/3 do combustível normal.
2. Eficiente — usam entre 0,1 e 0,23 kW-h por km.
3. Menores mudanças de óleo.
4. Eficiência de ISY.

Linhas MOBIE
800 916 624
THE FUTURE IS ELECTRIC
WELCOME TO THE FUTURE