Switzerland as an innovative promoter of e-mobility

Switzerland's environmentally friendly electricity mix offers ideal conditions for it to play a leading role in the electric mobility of the future.

The facts speak for themselves:

- The CO_2 emissions of a typical electric vehicle amount to less than **7 g/km** (production mix) or **23 g/km** (consumption mix).
- This corresponds to a CO_2 reduction potential of approx. **160 g/km** compared to the national fleet average in Switzerland; and of over **100 g/km** compared with the EU target set for 2015.

Who is Alpiq?

Alpiq is your partner for energy and energy services. As a leading energy company based in Switzerland, we are there for you throughout Europe.

We believe in the potential of everyday electric vehicles

A reduction of CO_2 emissions in road traffic could be achieved by the introduction of electric vehicles driven with clean energy. If you are interested in this topic, please visit www.alpiq.ch

Travel clean with electricity

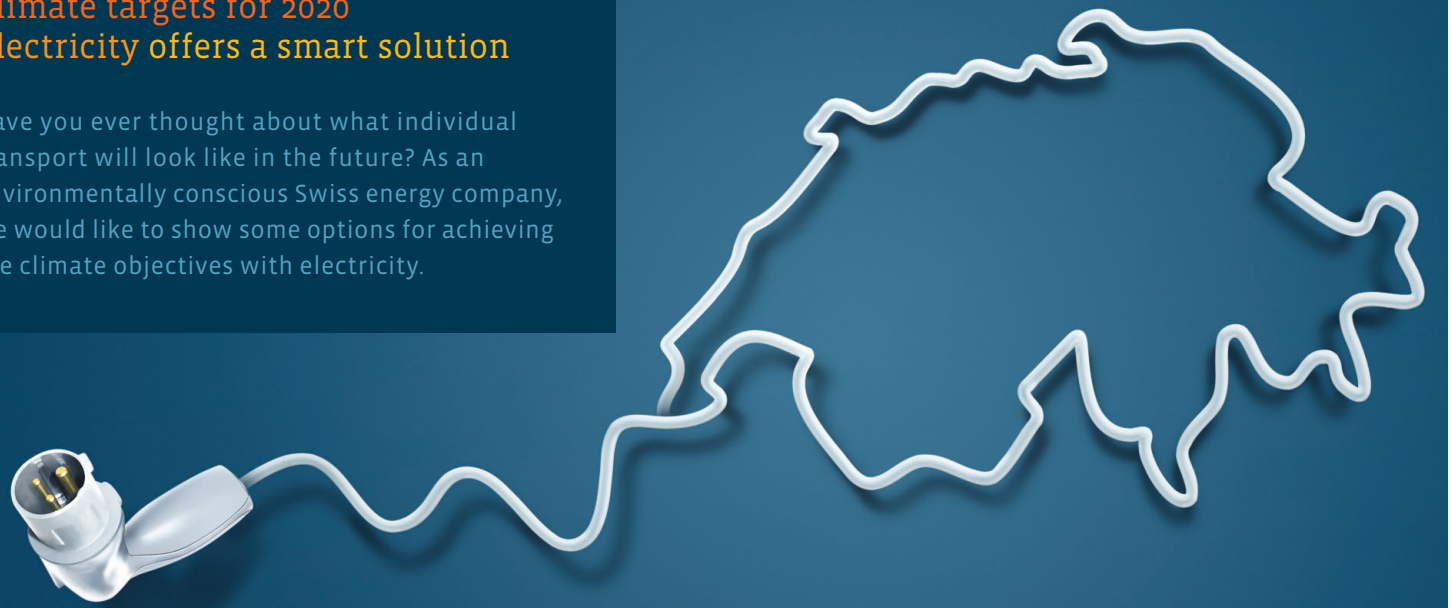
Tomorrow's world will be driven by electricity. That's why we support clean mobility. We're shaping the future of energy in Switzerland. With you. Alpiq, your partner for energy and energy services.

www.alpiq.ch

ALPIQ

Climate targets for 2020
Electricity offers a smart solution

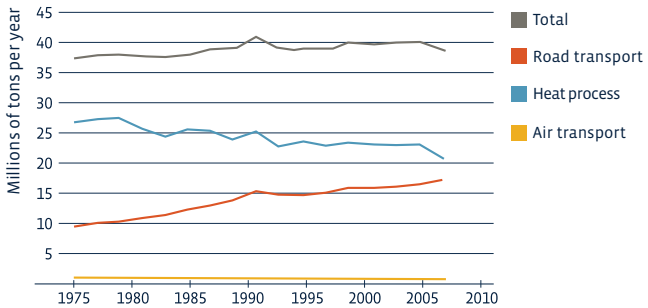
Have you ever thought about what individual transport will look like in the future? As an environmentally conscious Swiss energy company, we would like to show some options for achieving the climate objectives with electricity.



Transport in harmony with the environment
It is the declared objective of Switzerland's climate policy to reduce CO_2 emissions by 20 % by the year 2020. 44 % of current CO_2 emissions in Switzerland are caused by transport. Three quarters of these are generated by private transport.

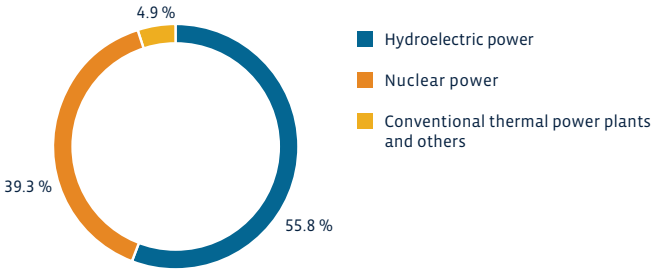
Electricity for clean mobility
What will individual transport of the future look like? The solution is literally on our doorstep. Because unlike other countries, Switzerland's domestic electricity production is almost CO_2-free and to a very large extent renewable. So Swiss electricity offers an efficient solution for clean mobility.

CO_2 emissions in Switzerland (energy use)



Source: Ecoplan, "CO_2 Emissions 2008–2012", Final report, Swiss Federal Office of Energy (BFE), September 2008

Swiss electricity production mix



Source: BFE, Energy statistics of Switzerland, 2009

Clean mobility – a look into the future

If the traffic on Swiss roads is to be more environmentally acceptable, we need constructive cooperation between politics and society, attractive electric vehicles on the market and sufficient infrastructure.

Future owners of electric vehicles would be able to charge up their vehicles using the following three charging modes:

1. Sleep & Charge
Convenient charging at home overnight – the cheapest and most widespread charging system (duration: about 8 hours).

2. Work/Shop & Charge
Accelerated public and private charging stations on car parks and at the workplace
(duration: up to about 4 hours).

3. Coffee & Charge
Fast charging when on the road – the most expensive charging option for occasional and urgent requirements
(duration: 15–20 minutes).

In 2020 the infrastructure might look like this:
- 650,000 charging stations at private homes
- 80,000 accelerated charging stations at workplaces
- 23,000 accelerated public charging stations in the cities
- 150 fast charging stations at strategic points of the road transport network