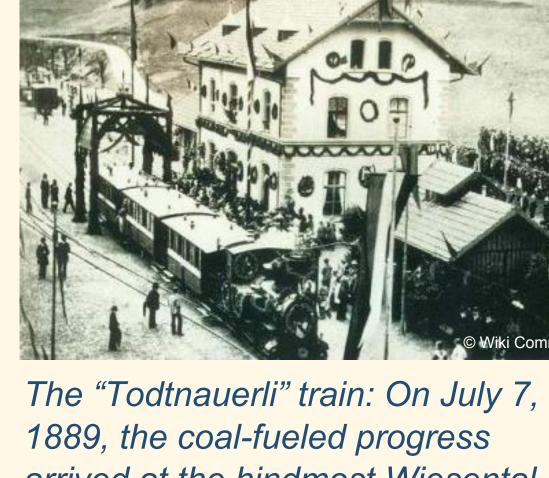
Full of energy



The first big energy transition of mankind

Only 200 years ago, civilization relied on renewable energies: people heated with wood, wind and water mills carried out mechanical work – but only where and when enough wind and water was available. Man and beast had to use their muscles a lot.

Then, the fossil-fuel era started. With coal, steam trains and steam engines, industrialization took off. Later, crude oil and natural gas became the most important energy sources: to run machines, to move by train, car, plane or ship, to heat and to generate electricity. A completely new infrastructure with oil-tankers, pipelines, gas pipes and high-voltage power lines



arrived at the hindmost Wiesental.

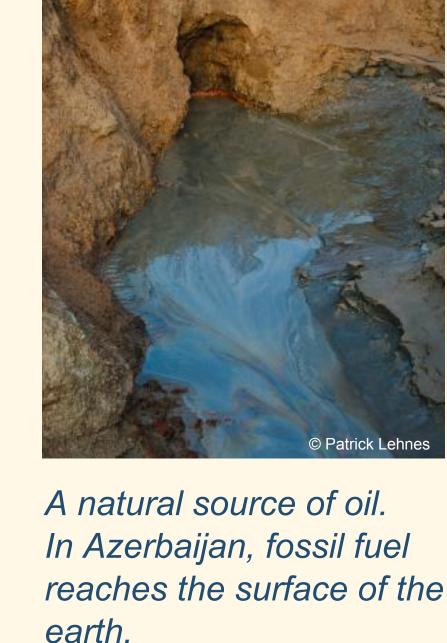
developed. The living conditions and habits of people changed completely. In rich countries, energy was

available basically without limits at any place at any time. This lead to an exponential growth of productivity and energy consumption...

As early as the 1970s, scientists of The

On the brink of the second, huge energy transition

Club of Rome started to warn about the "limits of growth". It became apparent that the availability of crude materials and fossil fuels is limited and that increasing environmental damage can cause permanent problems. One of these problems is climate change – caused by greenhouse gasses that are



systems powered by the sun's energy. All renewable energy sources, with one exception, are part of the constant energy stream

set free during the burning of fossil fuels. Meanwhile, the second huge energy transition has started: towards sustainable

from the sun to the earth. And this second energy transition will bring lots of new stuff, too: we need new infrastructures and some long-standing believes may have to be revisited. At the energy park "Buchenbrändle" ... you can learn more about the diverse energy sources of the

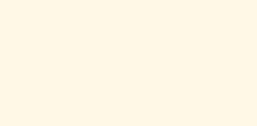
The most important on the pillar in brief

more information and references via QR-code

Sonnya with her own view of things < Birni has answers for children

on your smart phone

fossil and the emerging solar era:



Did anybody ever say this to you? People have a lot of energy. We can run, climb and have the strength to carry or pull heavy stuff. This can be very hard Well, it's true. sometimes. To make things easier and some things faster, people invented all These machines also need energy, sorts of machines. usually electric power or petrol. Can you imagine a world without cars? A world without TV, computers or cell phones? And now imagine you had a kitchen without a fridge, where you would cook over a fire and wash the laundry with your hands. This was the world of your great-great grandparents - but a lot has changed since! Nobody has to drill for coal Or gas for me. They will be used-up one day. But sun, wind and water, they will always be there.

10 0 0



