Introduction

Thanks to its secure, affordable and environmentally sustainable domestic electricity supply, Switzerland has been rated at the top of the World Energy Council’s worldwide environmental Sustainability Index. With electricity production based on hydro (58%) and nuclear (36%, in winter up to 40%) Switzerland has earned a Triple A Index in the Energy Trilemma (security, equity, sustainability). However, the Swiss pole position is at risk: Shortly after Fukushima the Swiss government made a U-turn and switched from nuclear new-build to a nuclear phase out.

Present Electricity Production in Switzerland

In Switzerland only about 3% of the power production is fossil based. For this reason Switzerland has a very environmentally and climate friendly production. Since in winter the inland electricity production does not cover the consumption, Switzerland has to import electricity to fill the gap. But in summer the surplus production allows for exports.

Future Scenario for Electricity Production

New renewable energy is now meant to replace nuclear while energy saving and efficiency measures should reduce overall energy demand. At the same time CO2-emissions are expected to be cut drastically: -50% off the 1990 level by 2045.

Conclusions

The unavoidable gap resulting from the country’s electricity needs on one hand and the domestic production without nuclear on the other hand cannot be filled by unreliable stochastic energy as suggested by the Swiss government’s roadmap “energy strategy 2050”. We are convinced that the roadmap proposed by the Swiss government will endanger the currently secure, affordable and environmentally sustainable energy system of Switzerland.

Acknowledgements
We thank Irene Aegster for her Inputs and support to the petition which accompanies this poster. A big thank you goes also to Christian Bauer from PSI to provide us the figures from the Energiespiegel 21 (http://www.psi.ch/Info/MediaBoard/Energiespiegel_21_e.pdf) and Edwin Somm for figure 3 and 6.