

Background information

Graphs for press release

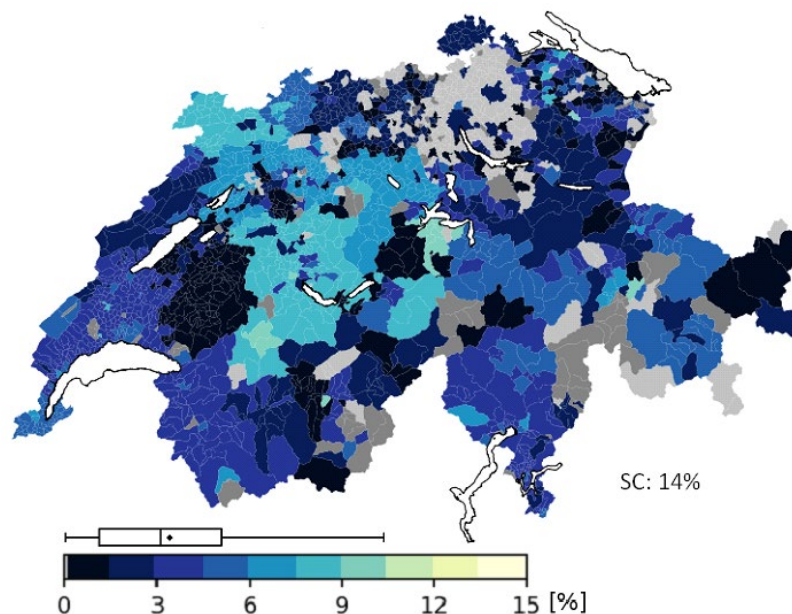
Patchwork of issues limits solar expansion

Zurich, 30 January 2023

The study contains explanatory graphs on the cantonal and regional differences in Swiss solar expansion. Please feel free to use the images for your own coverage using the credit "ETH Zurich":

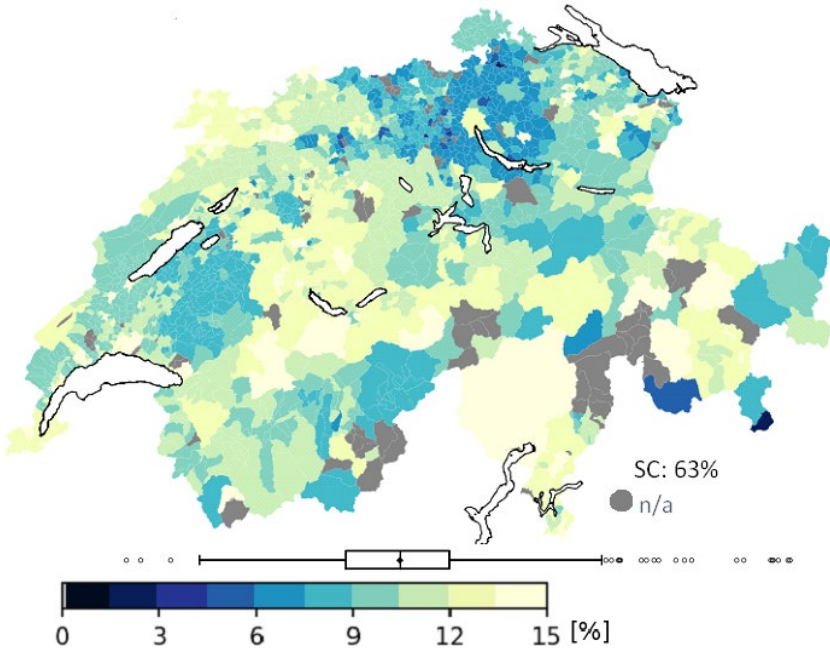
[Study and graphics](#) →

Graph 1: Return on a solar installation for a single-family home with gas heating



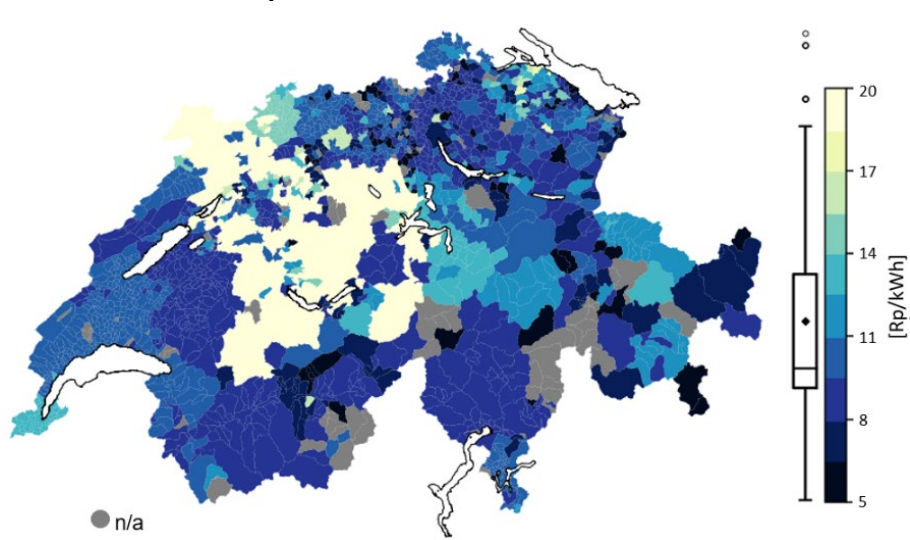
Graph 1 shows the expected return on an ideally sized solar installation for a single-family home with gas heating in almost all Swiss communes and cities. The brighter the commune, the greater the return on the installation over a period of 30 years. Communes with returns of zero or less are shown in light grey. Communes for which returns could not be calculated are shown in dark grey. The box above the colour scale corresponds to the area containing the middle 50 percent of the results, while the dot in the box represents the unweighted average (3.0 percent) and the line the median (3.2 percent). SC stands for self-consumption. On average, 14 percent of the solar power generated is consumed at home in this constellation.

Graph 2: Multi-family home with nine residents and a heat pump



Graph 2 shows that installing solar panels on a multi-family home with nine residents spread across four apartments and a heat pump pays off in almost all Swiss cities and communes. The median lies at a return of 10.5 percent. On average, 63 percent of the solar power generated is consumed at home.

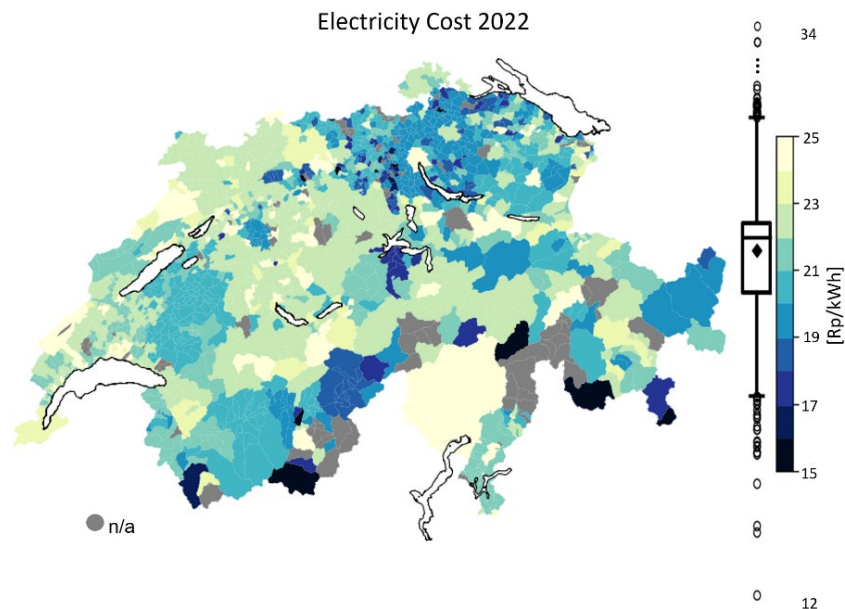
Graph 3: Feed-in tariffs for solar power in 2022



Graph 3 shows the feed-in tariffs for solar power in all Swiss cities and communes in 2022. The data was obtained from the Verband unabhängiger Energieerzeuger ([Vese](#)) [Swiss Association of Independent Power Producers] and includes 490 energy providers. Depending on the provider, tariffs can vary greatly at the communal level. The tariffs vary between 5 and 22 Swiss cents per kWh. The brighter the commune, the higher the tariff. The median (line in the box) lies at 9.9 Swiss cents per kWh. Communes with no available data are shown in dark grey.

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Graph 4: Electricity prices in the year 2022



Graph 4 shows the electricity prices in all Swiss communes and cities in the year 2022. Along with the feed-in tariff, the return on solar panels also depends on the price for the electricity saved by generating solar power at home. Depending on the grid operator, prices range from 12 to 34 Swiss cents per kWh. The brighter the commune, the higher the tariff. The median lies at 22 Swiss cents per kWh and the average at 21.8 Swiss cents per kWh. Communes with no available data are shown in dark grey.