



Smart Energy Management

Building intelligence saves energy and conserves resources



Andreas Rumsch, Head of Smart Energy Management Research:
«With intelligent load management, we will manage the energy transition without having to take a cold shower.»

Management system with a future

Switzerland uses around 50 percent of its energy in buildings. That's why energy efficient solutions are very welcome – for example smart energy management, one of the most important drivers of building intelligence.

But how do we handle energy more efficiently, without having to reduce our comfort or well being? This is the central question for us in Smart Energy Management (SEM). If we know how much energy a building and its inhabitants are expected to consume and how much energy local renewable energy sources produce, an intelligent system can optimize electricity consumption without compromising our comfort. In this way, we contribute to successfully mastering the energy transition.

Sweet Home, smart Home

Our team researches intelligent systems that cover all energy issues from production and distribution to consumption. We are pursuing two approaches: Firstly, we automate heating, cooling and washing in line with user behaviour. Secondly, we show electricity consumption so that users can switch off power guzzlers and unused appliances. This could save up to 25 percent of energy – without building reconstruction, thanks solely to automated regulation and sensitization of users.

Your home is getting smarter and smarter. Our research helps to exploit the possibilities of intelligent houses and thus ensure a stable power supply – with technology in the background.



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