Marktbasierter Ansatz für Versorgungssicherheit

Strommarkttreffen Schweiz, 15. Juni 2018, Zürich

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Roll-out of Smart Meters offers new opportunities

Currently, in case of emergency whole districts need to be cut-off from supply

- High costs of supply restrictions
  - High level of security of supply needed

- Restriction of individual customers not possible
  - Reliability of security of supply is a common good

In the future supply could be restricted individually

- Lower costs of supply restrictions
  - No state intervention needed to guarantee supply of critical infrastructure

- Restriction of individual customers possible
  - Reliability of security of supply is a private good
Switzerland needs to decide how to handle times of limited electricity supply

Source: Avenir Suisse, https://www.avenir-suisse.ch/massgeschneiderte-versorgungssicherheit/
A market based solutions needs to distribute costs and risks on the basis of customer demand.

1. Ask all consumers to specify, and continuously update their curtailment cost.

2. Allocate curtailment risk by offering curtailment bids in all energy markets. 
   > Curtailments remunerated at marginal cost

3. Allocate costs of back-up based on selected reliability levels.
   > Grid tariffs for different reliability levels

4. Efficient Dispatch and investment incentives

Thank you for your attention