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Title: Industrial power peak shaving energy storage in Hamburg Germany

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Does peak shaving reduce electricity consumption?

Since peak shaving does not reduce consumption but only shifts loads total electricity consumption is increased due to charging/discharging losses of the EVs' batteries. Figure 1: development of the power price of the distribution system operators Bayernwerk, Netze BW, WW Netz and EWE Netz.

Does peak shaving increase power grid stability?

As opposed to this study, most previous studies related to peak shaving focus mainly on increasing electric grid stability [KEPCO-01 17/, UBR-02 19/], increase flexibility of power systems /HULU-01 19/ and benefits to power grid companies [SUOE-01 19/, UOCO-01 15/].

What is peak shaving?

If a company consumes a large amount of electricity at certain peak times, for example by starting up several machines, there is an increased load on the electricity grid. This maximum load is referred to as the "peak load". The problem is that every peak load has an expensive impact on the electricity bill.

Can EVs be used for peak shaving?

Potentially millions of EVs in Germany alone could not only draw power from the grid but could be additionally used to discharge back to the grid and thus provide flexibility to the energy system. One possible application of this flexibility is using EVs for peak shaving for industrial sites, i.e. reducing maximum power consumption of

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