Sweden load shifting

With domain knowledge and statistical analysis, it is possible to create robust load forecasts with acceptable accuracy using easily available machine-learning libraries. Both models ...

Explore the institutional, technical, financial and social considerations of an aggregator in Sweden. Identify barriers for the aggregators considerations as well as market barriers for SthlmFlex.

This thesis work investigates the potential for DSM in the form of load shifting common residential electrical loads in Swedish households. The loads examined are dishwasher, laundry and water ...

One primary issue is the shifting power flow pattern, with more electricity moving from the northern and central regions to the south. This is primarily due to rising industrial consumption in the ...

In this study, using sub-hourly appliance-level data from a representative sample of Swedish households on standard tariffs, we investigate the welfare and emission implications of ...

In September, we introduced a new metric: the offloading factor, showing how effectively we shift electricity use to lower-priced hours through automation and storage. The result was 44 %, ...

roughly 2-5% reduction in total daily cost from shifting load up to seven hours ahead, indicating small incentives for households (and retailers) to adopt dynamic pricing of electricity. Our results have ...

The goal of the thesis is to explore how short-term flexibility resources, namely load removal and load shifting through flexible consumption and short-term storage, can reduce electricity prices, ...

As an empirical illustration, we fit our model to Swedish data on residential elec-tricity usage at the sub-daily level. Our results indicate that the potential to shift load from peak to off peak is limited.

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