

Estonia load shifting

Today, Estonia and all of Europe are facing a rapidly approaching energy crisis, where keywords such as rising electricity prices, the risk to energy security, and possible power outages are becoming everyday occurrences. Although several solutions have been discussed both in the media and put on the ministry's desk, none of them offer short-term relief, apart from shifting the peak load of large consumers.

"Today, business customers belonging to the Fusebox portfolio make up more than 10% of Estonia's total consumption," said Ing. "In the last year alone, we have shifted our customer's electricity consumption away from peak hours over a million times. The results show that we can react in real-time to changes in the electricity market, whether it is caused by a production deficit, price volatility, or simply the need for balancing."

At this point, Ing recommends not to wait for guidelines and measures from the state, but to be proactive yourself. "Joining the Fusebox platform is easy and our software is free. In most cases, connecting to us only requires software setup and you can already start saving on your electricity bills. Since the demand for this kind of service is very high at the moment, I recommend that you notify us of your wish to join as early as possible."

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Energy storage can be used to shift the peak generation from the PV system to be used when the demand requires it, as shown in Figure 3. Excess energy can be stored during peak PV generation. This allows for the distribution of this energy when the PV system is not generating adequate power, or not generating at all.

BESS reduces renewable curtailment : through load shifting, i.e. charging during hours of surplus wind and solar energy and discharging during peak load; through reserve provision, i.e. allowing conventional generators to turn offline and "free up" space on the grid for variable renewables.

Samenvattend verwijst Load shifting naar het opnieuw aanpassen van het energieverbruik met het oog op de optimalisatie van het energieverbruik, om de zonne-energie en de energiekosten voor de gebruiksduur te

optimaliseren. Soms kan het worden gezien als een passieve peak-shaving-oplossing als het wordt gebruikt om cumulatieve KW-piek te

Load shifting isn't about increasing the intrinsic efficiency of the RTU (rooftop air conditioning unit). It, however, reduces the heat load on the building and shifts dealing with the majority of the remaining heat load to a more efficient time, when it's cooler outside. You should start the system up early and/or run it periodically

Results that came from a load shifting program where individuals actually participated are noted as Real, and conversely Hypothetical, if the results are from a survey where participants were asked about hypothetical programs. . 9 Heating sectors in Estonia, Latvia, and Portugal (8%, 10%, and 13%,

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