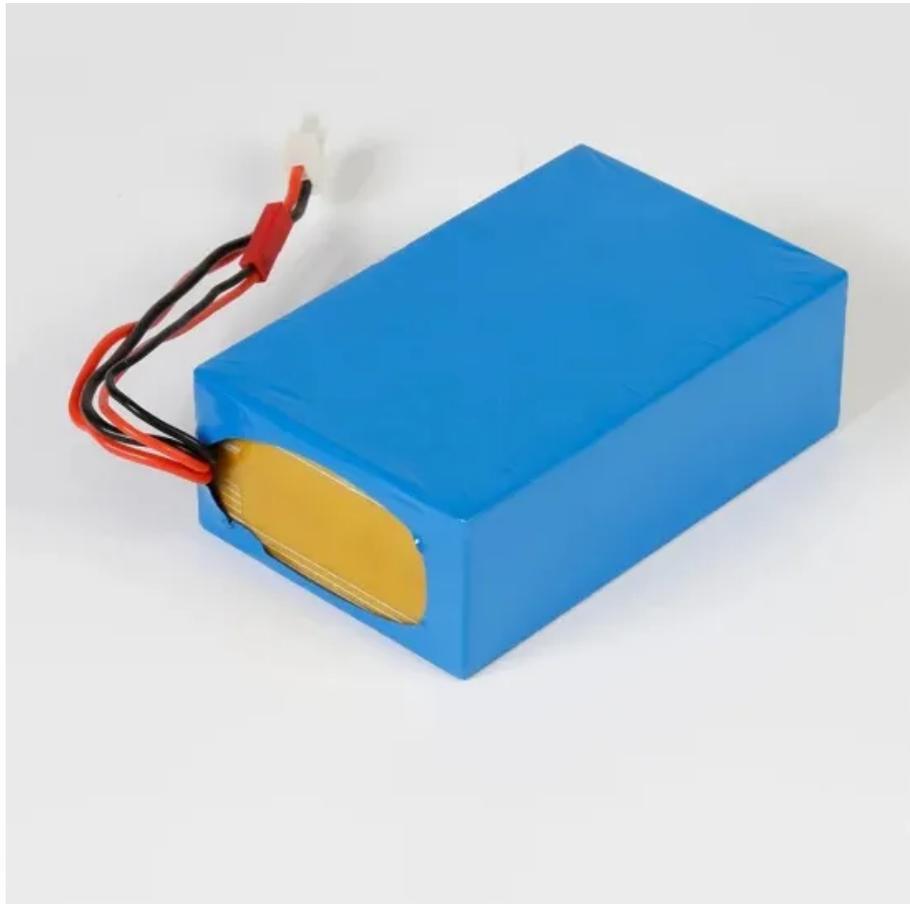


**PIENAAR ENERGY (PTY) LTD**

# **Helsinki peak shaving**



## Overview

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With peak shaving, a consumer reduces power consumption ("load shedding") quickly and for a short period of time to avoid a spike in consumption. An increasing share of electric vehicles can mean excessive peak loads in low-voltage power distribution networks. Introducing peak shaving mechanisms to the charging systems, such overloads can be mitigated significantly. The first contribution of this study is to quantify the amount of. There are two main approaches to this: peak avoidance and peak shaving. Power consumption peaks are important in terms of grid stability, but they also affect power procurement costs: In many countries, electricity prices for large-scale.

## Helsinki peak shaving

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### Peak avoidance and peak shaving

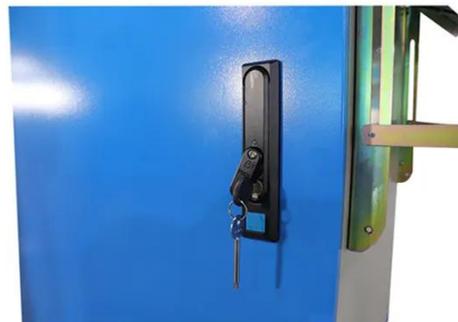
Peak avoidance and peak shaving follow different strategies, but complement each other perfectly. While avoidance relies on forward planning to avoid peak loads in the first place, shaving ...

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### [PDF] Quantification of peak shaving capacity in electric vehicle

An increasing share of electric vehicles can mean excessive peak loads in low-voltage power distribution networks. Introducing peak shaving mechanisms to the charging systems, such overloads can be ...



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### Quantification of peak shaving capacity in electric vehicle ...

Due to concerns and possibilities related to the charging of EVs, peak shaving has gained attention in academic research during the last years. In this section, a comparison with this paper ...

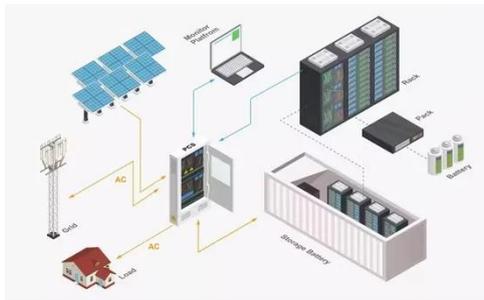
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## Peak Shaving , What it is & how it works

In the energy industry, peak shaving refers to leveling out peaks in electricity use by industrial and commercial power consumers.

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## Quantification of peak shaving capacity in electric vehicle charging

How much peak load can be reduced with peak shaving at charging sites under realistic conditions? What kind of charging sites are the most prominent for peak shaving?

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## Quantification of peak shaving capacity in electric vehicle charging

An increasing share of electric vehicles can mean excessive peak loads in low-voltage power distribution networks. Introducing peak shaving mechanisms to the charging systems, such overloads can be ...

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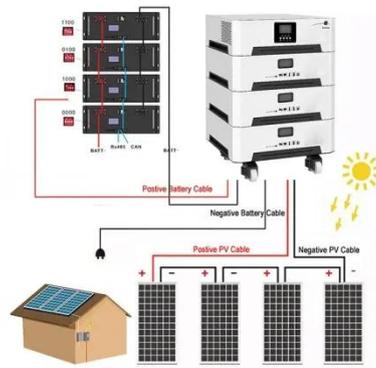
By using Kisen Energy's Digital Cloud + Optical Storage and Charging Integration Solution, the above problems can be effectively solved, operational efficiency can be improved, ...

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## Quantification of peak shaving capacity in electric vehicle charging

The first contribution of this study is to quantify the amount of flexibility that electric vehicles can contribute to peak load reduction so that the drivers can still fully charge the batteries of their vehicles.

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