

What is load shifting?

When talking about electricity consumption we often talk about how much we use or how we can be more efficient with the energy that we do consume. Load shifting (or peak shaving) however, deals with the questions of when energy is used, rather than how much.

Does 6% LM weightage reflect the optimal load profile shifting?

As the test results for the case study, it was found that the practical 6% LM weightage was able to reflect the optimal required load profile shifting to be applied by manufacturing operation.

How to find the best load profile reflecting the new tariff?

Due to that reason, this study proposes a method to find the best load profile reflecting the new tariff offered by using a combination of optimization algorithms such as Particle Swarm Optimization (PSO), Ant Colony Optimization (ACO), Evolutionary PSO (EPSO), and Self-Organizing Mapping (SOM).

What is Tahir Demand Response (DR) program in Malaysia?

Musthafah Mohd. Tahir Demand response (DR) program through tariff initiative has been established in Malaysia since 1990. The available time of use (TOU) tariff focuses on providing price signals to consumers, especially from industrial and commercial sectors.

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Across Malaysia and ASEAN, we're entering an era where flexibility is as valuable as energy ...

For example, Load shifting declines demand during on-peak hours by shifting load to off-peak hours. Strategic conservation generally reduces the general load profile based on seasonal changes.

Another strategy that is costless and can be effective is load shifting. It can minimize the maximum demand charge by simply shifting the consumption into another period. This paper ...

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The benefits of load management expected to be achieved using the foregoing hybridization could be a multi-purpose strategy, with many DSM features such as the load shifting, peak shaving, energy ...

Figure 2 shows the average 24-hour electrical load profile of a selected residential area in Malaysia Muzmar et al. (2015). An early observation finds that the load pattern reaches its maximum demand ...

Simultaneous Load Management Strategy for Electronic Manufacturing Facilities by using EPSO Algorithm
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In Peninsular Malaysia, enhanced time of use tariff (ETOU) has been introduced to encourage commercial and industrial consumers to reduce electricity use through demand side management. ...

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