



Expert report on the optimisation results of the parallel difference power control (PADICON) in a foundry

1. Basis of assessment

- Evaluation results of the energy optimisation system
- Recordings of the energy requirement of the energy supplier system
- Accounting statements of the energy supplier

2. Course of action

The assessment of the optimisation results were carried out by inspecting the recordings and documentation of the operator on the energy consumption of the plant before and after using the control system.

3. Results and evaluation

The control system was used to reduce the peak capacity of the plant. To control the system, the energy is used as a variable. Here, the current energy consumption was continuously monitored and a trend calculation of the entire energy consumption within a measurement period was carried out. The time used to compare the energy consumption before and after converting to the new energy optimisation system is comparable regarding plant operations. An acceptable peak capacity given by the new control system was met within a certain period of time. With regard to the peak capacity before the installation, it was reduced by approx. 14%.



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