

# What is PUE (Power Usage Effectiveness)?

PuE - Power Usage Effectiveness is a term which often appears in relation to data centers. The PuE value is calculated by comparing the actual energy demand of a data center with the energy consumption of the IT infrastructure.

$$\text{PUE} = \text{Data center energy demand} / \text{IT infrastructure energy demand}$$

The theoretical best value of **1** would mean that all the energy consumed goes into the computing power of the data center.

In Germany, the average PuE value is around **1.8**.