

ARTIFICIAL INTELLIGENCE IN BUILDINGS WICKIE M

we install cleverness - artificial intelligence for energy management

our WICKIE M system ensures intelligent energy management. WICKIE M is small and clever. with its powerful algorithms, it thinks hard and then implements a smart idea with intelligence and cleverness. this is how WICKIE M reaches its goal with ease: a needs-based, self-learning, AI-supported PLC for energy management in buildings.

TECHNOLOGY WITH BRAINS

the basis for the WICKIE M system is a codesys-based control platform and a building bus system that WICKIE M uses as a communication interface between actuators and sensors. the intelligence of the system is based on time series predictions with a neural network. machine learning algorithms collect the recorded data in a database, recognize patterns in the data, constantly update the calculation models and generate the predictions.

STRONG PERFORMANCE

the use of WICKIE M saves up to 25% energy. for intelligent, energy-saving room air conditioning, data on room usage is collected via the sensors of the building bus system. air conditioning, shading, light and presence in the room communicate with WICKIE M via a building bus system. the actuators are only activated when required according to the forecast for room usage. synchronization with the actual presence in the room is ensured.

data on energy use, as well as weather forecasts, form further bases for optimum energy-efficient control of all generators. connection to building management systems is just as possible here as the integration of renewable energy sources such as solar thermal energy or photovoltaics.

WICKIE M can work completely locally, but for larger buildings and larger data volumes, a cloud solution is recommended, to which the system can of course be adapted in no time at all.

ALL ADVANTAGES

- demand-based energy management based on predictions and actual presence without time-consuming manual adjustments
- active environmental protection through an autonomous, self-learning and intelligent system that saves energy, money and manpower
- versatile, expandable, modularly scalable and customizable
- sophisticated features for maximum resource conservation
- no high costs for installing the system by connecting to existing building bus systems

