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A Smart Energy System for Sustainable Buildings

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Stellingen

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A Smart Energy System for Sustainable Buildings: The Case of the Bernoulliborg

van

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1. Today's buildings are not smart; they are mostly unaware of people and they don't learn from their previous usage and user decisions.

2. Using computer science techniques such as AI planning one can optimize the operations of buildings and reduce energy consumption, while at the same time maintain or even increase satisfaction of building occupants.

3. Smart Energy Systems for buildings are sustainable and achieve their optimization goals only when they are accepted and properly used by the end-users.

4. Smart Energy systems will be widely adopted in buildings if the majority of the stakeholders are satisfied with the efficiency increase or economic benefit that the system brings.

5. Cloud computing is an appropriate technique and medium to connect buildings, as well as collect, compare, and share data about buildings, in a cost-effective manner.

6. To reduce the impact of buildings on the environment, we need to make them smarter, so they can use their resources optimally.

7. "If everyone does a little [for environmental sustainability], we'll achieve only a little." - *David JC MacKay*

8. "The most valuable thing people can give you is their time, and their energy, of course." - *Ivan Vujacic*