

# Saving energy when using your computer



## Klokhut versus Klokhuis

Klokhuis (Dutch for 'apple core') is an educational television show for early teenagers in the Netherlands that started in 1988. The subjects vary widely, but topics often include a scientific approach. Energy saving would certainly be (and actually has been) a fitting topic for a Klokhuis show. The Klokhut show is a parody on the Klokhuis shows: it includes a very enthusiastic host and experts helping to find the answer to a practical question.



Klokhut host Mike visits the caller of the question: should I leave my computer on standby or should I turn it off?

Mike visits two professors from the Groningen University to get an answer. After heavy calculations they find the solution.

Mike advises the viewer to take over their findings: if you don't use your computer for a period longer than 5 minutes, switch your computer off!!!

### RESEARCH QUESTION

How do you save the most energy? Leaving your computer stand-by or turning your computer off? When you don't use your computer it still uses energy. But when you switch it off and then switch it on, it uses

extra energy during the start up phase. So the question of the Klokhut group was, what is the breakeven point? They made a nice YouTube video of their search of the answer.

### KEY CONCEPTS

Teamwork  
Stimulate researching skills (literature / internet research)

Train creative skills  
Related to students daily behaviour and choices (computer use)

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