EFlex Demonstrator

Interactive virtual environment for energy-flexible manufacturing

Delfine project

The project brings electricity producers and consumers together and enables the sustainable and flexible use of electricity in production under dynamic electricity prices.

EFlex demonstrator

In a virtual reality application, users can interactively experience energy-flexible production through the following components of the demonstrator:

- **A virtual manufacturing environment** including technical components that need to be produced, and various production steps using CNC and other processing machinery
- **User tasks** to determine a production plan in a way that minimizes electricity costs and maximizes the use of renewable electricity sources
- **Artificial intelligence** in the form of a virtual agent providing support as well as incentives for the conflicting goals of minimizing electricity costs and production time

After the production, the outcome of the user-generated production plan is measured and compared to the solution found using the underlying artificial intelligence algorithm.

Do you think you can succeed in energy-flexible production planning? Come by and find out!

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