EEPOS - Energy management and decision support systems for energy positive neighbourhoods

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Energy performance monitoring and operations planning tools: technical documentation

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1. PUBLISHABLE EXECUTIVE SUMMARY

To demonstrate the possibilities of the EEPOS platform in the two demonstrators in Finland and Germany, a number of tools were developed. These are

- an Analytics and alarming tool
- a performance monitoring and emergency cut off tool
- a thermal energy consumption forecast tool and a
- interactive visualization tool.

An open source database tailored for recording energy consumption, which fitted to task as well as the requirements of the other tasks, was selected. This is especially important to realize the data models developed in T22 or the OGEMA platform used in WP2 to connect the individual buildings to the platform, as all those are based on tree-like data structures.

This document describes the individual tools, their connection to the EEPOS platform and to the demonstrations with their technological basis and their functionality. Furthermore a short summary of the OpenJEVis database is given.