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## Networking the energy supply of industrial parks

Planning tool identifies synergy effects between neighbouring companies

Industrial parks and commercial zones are home to companies from many different industries producing goods virtually side-by-side. With an energy supply system that serves the entire business-spanning estate infrastructure, greater overall efficiency gains can be achieved through the effects of compromise and synergy between the different companies. The BINE Projektinfo brochure “Saving energy on commercial and industrial parks” (12/2014) presents a new simulation program that identifies previously untapped efficiency potential for electricity, heating and cooling. The program can identify optimisation proposals according to various economic and energy parameters and generate graduated suggestions.

The software can also map complex industrial sites with a vast number of businesses and possible supply variants. The calculations also factor in, for instance, the load profiles of the different consumers, the topography and the type of technologies used. The program identifies proposals for the designing of components and parts. It evaluates the different variants, e.g. based on investment and operating costs, the capital value or total CO2 emissions. The software is suitable both for expanding existing industrial parks and for planning new sites.

The program has been initially tested in practice by the researchers in the planning of an industrial parks for a globally operating pharmaceuticals company. The new planning tool has been developed by RWTH Aachen together with partners from science and industry. The software is expected to be refined further in future to facilitate the mapping of short time intervals and the computation of individual issues including without proficiency in mathematical optimisation.

The BINE-Projektinfo brochure, which can be obtained free of charge from the BINE Information Service at FIZ Karlsruhe, is available online at [www.bine.info](http://www.bine.info) or by calling +49 (0)228 92379-0. The brochure cover and one additional image are also available on this web portal in the press section.

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