



INNOVATION

ENGINEERING

OPTIMIZATION

Sustainable constructions Efficient engineering solutions for buildings

Increase of the energy efficiency ...

in the earliest planning phase is the key to maintain a cost-effective and ecological building during its entire life cycle. Sustainability begins with the formulation of firm goals.

The constantly rising costs of energy and the demand for emission reduction meet the highest expectations in the planning of structural elements, façade constructions and the technological equipment of a building.



EcoCommercial Building Norwich/UK

Concerning existing buildings, it is important to find the weak points in the energy performance and to eliminate them by sensible measures.

We consistently follow ...

all relevant sustainability criteria and ideas in order to transform ambitious planning tasks for your commercial real estate.

In this respect, we develop advanced planning concepts which incorporate the full range of favourable building orientation, space utilization, façade planning, selection of construction material, detailed solutions of structural design and optimized building services.

This is carried out by an interdisciplinary team consisting of architects, structural engineers, HVAC engineers, building physicists, electrical engineers and other specialists.

Portfolio

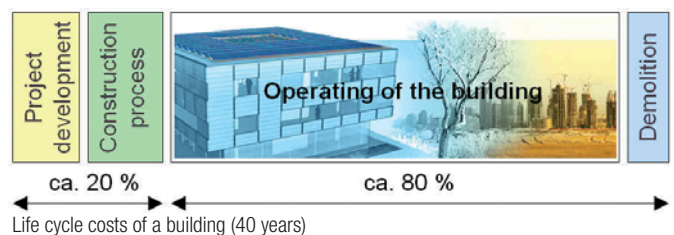
We carry out the whole engineering services using state-of-the-art technology with focus on energetic and ecological aspects for your building. The execution of verifications under public planning regulations are mandatory.

With regard to the existing building, we offer a variety of analyses, evaluations and expert advice. Furthermore, we develop custom solutions for your property considering investments and operating costs as well as concepts for renewable energy systems.

We offer ...

our full range of expertise, innovation and reliability concerning structural and energetic advice. The spectrum of building types comprises all possible occupancies in the commercial field:

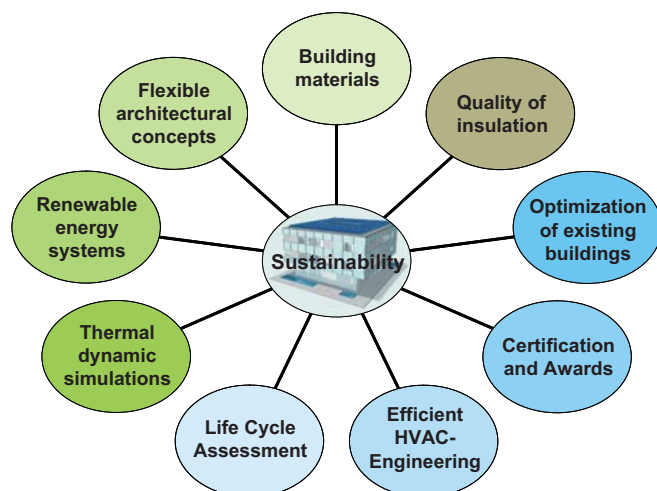
- offices, laboratories and functional buildings
- factories, operation buildings and storehouses
- special uses, e.g. cafeterias, greenhouses
- public buildings, e.g. schools, day-care centers, hospitals, administration buildings, sports facilities



Bayer Technology Services
Powering Your Performance

Your advantage

You are getting efficient interface coordination and the realization of all planning services including a firsthand project control. Our engineers handle your project with professional expertise and commitment. The integral planning idea offers besides a high quality an effective workflow.



Aspects of sustainable constructions

We promise to reliably realize your investment plan by building, executing and supervising set targets in the master planning. You are getting a property which is energy efficient, demand-actuated and highly productive.

Our working basis ...

follows the highest technological and aesthetic qualities worldwide. We are particularly interested in the development and implementation of a building standard that is to be groundbreaking for a modern commercial property.

Thereby we rely on the high qualification of our engineers as well as on state-of-the-art methods in energy analysis and simulation with international applicable planning tools and database.

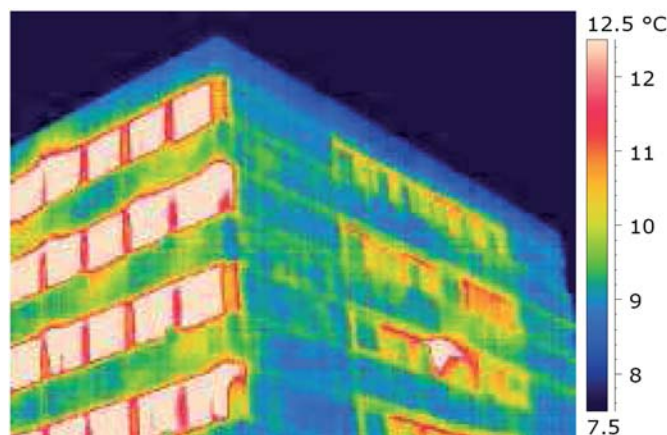


Day-care center as zero emission building

Scope of services

We are a competent partner to perform the design, planning and execution of the following:

- new building, extension or refurbishment into a EcoCommercial Building (ECB)
- energy consulting service, energetically and ecologically basis planning and dynamic building simulation
- execution of projects with sustainability criteria from establishing the basis to the building commissioning
- analysis of the existing building with special software and technical instruments (energy screening)
- feasible proposals to improve the energetic behaviour of the building with regard to economic aspects
- planning of systems for renewable energy production
- verifications regulated by public law in the planning process and energy performance certificates
- expert monitoring of the audit procedure for the certification of GreenBuildings
- life cycle management of buildings



Thermal image of a building at Chempark Leverkusen