

Blue Sky

# GREEN CITY

...fresh ideas for our climate

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InnovationCity Ruhr | Model Town Bottrop – innovative ideas and solutions for climate protection will be tested in the real world here until 2020 in order to serve as a model for other cities in the future.



### THE IDEA

The idea for the InnovationCity Ruhr project was developed in the Ruhr Initiative Committee, an association of 70 leading companies from across the region. A complete city district with a population of about 70,000 will be transformed into an exemplary district for energy efficiency by 2020. The specific goal: to reduce the CO<sub>2</sub> consumption in the pilot area in Bottrop by 50 percent by 2020, while simultaneously improving the quality of life.

### A "TYPICAL PIECE OF THE RUHR REGION"

Within the scope of its competition, the Ruhr Initiative Committee was looking for a "typical part of the Ruhr Region", which, as the climate city of the future, could take on the function of a role model for the renewal of the entire Ruhr Region, because energy is the traditional core competence of the region. It is therefore obvious that the innovative climate protection methods developed here should also be used.

### THE PILOT AREA IN NUMBERS

69,000 inhabitants  
14,474 buildings  
2,463 ha

### UNIQUE IN THE WORLD

Bottrop won the competition because a good transferability to other cities was ensured and the population was clearly in favour of the project: 20,000 Bottrop inhabitants signed a petition to support the application. With the InnovationCity Ruhr project the entire region has received a new pilot project and distinctive feature that, in this size and fashion, is unique in the world.

### RENOVATION INSTEAD OF BUILDING NEW

InnovationCity Ruhr stands out from other projects in this area through the fact that it is not a new construction project to be built from the ground up, but will involve renovating existing buildings. Merely planning environmentally friendly buildings would have little effect in Germany, as they are actually already standard today. But if it is possible to re-develop the existing buildings in an environmentally friendly fashion, that would create significantly greater leverage.



Image: Zero Emission Park

**InnovationCity Ruhr**  
**FIELDS OF ACTION**

100 projects from the below mentioned fields of action have already been initiated – many are in the implementation phase, some projects have already been completed and new ones are added constantly. In that way the climate city of the future will evolve by 2020.

**” ACTIVATION**

Interdisciplinary measures for information transfer and for the mobilization of the population:

- Consultation
- Information
- Dialogue
- Services



In order to achieve the goal of significantly reducing CO<sub>2</sub> emissions, a systematic energy-efficient renovation of existing buildings is required. The pilot area comprises a total of 12,500 residential buildings. About 60% of these buildings have a high or very high need for renovation.



The systematic energy-efficient renovation of the existing buildings also includes the approximately 2,000 non-residential buildings in the pilot area. This concerns commercial, industrial, retail and service areas as well as public facilities. In addition to the aforementioned renovation measures, the improvement of business processes is particularly vital.



The “Energy” field is the linking element to the other fields of action. It focuses on the development of decentralised power generation systems as well as the testing of new technologies, especially in the field of renewable energies.



The climate goals pursued within the scope of InnovationCity Ruhr can only be achieved if the transport sector also makes a perceptible contribution. The necessary fundamentals, strategies and action concepts should be developed in the “Mobility” field of action. This focuses on the development of electric mobility for commercial and private use.



The “City” field of action includes the areas of urban development, open space development and water management that make a big contribution to increasing the quality of life. In addition, all measures for climate-friendly urban redevelopment are bundled here.

# InnovationCity Ruhr PARTNERS

As an investment by the involved companies and the state of North Rhine-Westphalia, InnovationCity Ruhr serves as a unique example of public-private partnership. The overall project is implemented in cooperation with businesses as well as academic and political institutions.

InnovationCity Management GmbH will manage the InnovationCity Ruhr project for the coming years. Its function is to mediate the whole process, to coordinate and communicate. It is therefore the interface that brings together players from industry, academia and politics. It is supported by the Ruhr Initiative Committee, the city of Bottrop and BETREM Emscherbrennstoffe.

The local reference point is the Zentrum für Information und Beratung (ZIB) in the heart of Bottrop. All who wish to participate in the ecological remodelling of the city districts in the pilot area will find extensive information and advisory services there. In addition to the offices of the Management GmbH the ZIB also includes multi-purpose function rooms for meetings with the network partners and info evenings for the public.

The partners of the InnovationCity Ruhr benefit from the strategic opportunities for communication, marketing and networking to develop individual and mutual projects. The network brings together all the companies that are interested in making a contribution in the context of the InnovationCity Ruhr.

Talk to us and become a partner too!

## Companies

- \_ A.T. Kearney
- \_ BASF Construction Chemicals
- \_ Bayer MaterialScience
- \_ BETREM Emscherbrennstoffe
- \_ BP Europa
- \_ Brötje
- \_ Conenergy
- \_ Deutsche Annington Immobilien
- \_ Deutsche Rockwool
- \_ E.ON
- \_ E.ON Ruhrgas
- \_ Emscher Lippe Energie
- \_ EMSCHERGENOSSENSCHAFT und LIPPE-VERBAND
- \_ Evonik Industries
- \_ Gelsenwasser
- \_ Gesellschaft für Bauen und Wohnen Bottrop
- \_ HELLWEG
- \_ HOCHTIEF
- \_ NRW.BANK
- \_ RAG
- \_ RAG Montan Immobilien
- \_ RAG-Stiftung
- \_ Rhein-Ruhr Collin
- \_ RWE
- \_ Saint-Gobain Weber
- \_ Siemens
- \_ Sparkasse Bottrop
- \_ STEAG Fernwärme
- \_ STIEBEL ELTRON
- \_ ThyssenKrupp
- \_ TRIMET ALUMINIUM
- \_ TÜV Nord
- \_ TÜV Rheinland
- \_ Vaillant
- \_ Viessmann
- \_ Vivawest Wohnen

## Research Institutions

- \_ Fraunhofer Gesellschaft, Fraunhofer UMSICHT
- \_ Wuppertal Institut für Klima, Umwelt und Energie
- \_ Bergische Universität Wuppertal
- \_ E.ON Energy Research Center
- \_ Fachhochschule Gelsenkirchen
- \_ Folkwang Universität der Künste
- \_ Gaswärme-Institut Essen
- \_ Hochschule Bochum
- \_ Hochschule Hamm-Lippstadt
- \_ Hochschule Ruhr West
- \_ International School of Management Dortmund
- \_ Kulturwissenschaftliches Institut Essen
- \_ Ruhr Universität Bochum
- \_ Rheinisch-westfälische Technische Hochschule Aachen
- \_ Technische Universität Darmstadt
- \_ Technische Universität Dortmund
- \_ Technische Universität Kaiserslautern
- \_ Universität Bremen
- \_ Universität Duisburg Essen
- \_ Universität Kassel
- \_ Universität Köln
- \_ Universität Stuttgart
- \_ Zentrum für BrennstoffzellenTechnik

- 01 | Vertical axis wind turbine
- 02 | Living at Ehrenpark
- 03 | Hydrogen bus





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●  
BOTTROP

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